

NACOmatic

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AZ Min Alt#4	-	6	AXX	-	1826	E16	-	1220
AZ Min Rdr#4	-	9	AZC	-	45	E26	-	1889
AZ Min T0#4	-	12	BAB	-	749	E45	-	550
CA Min Alt#2	-	305	BAM	-	1970	E80	-	1833
CA Min Alt#3	-	308	BDG	-	2132	EDU	-	461
CA Min Rdr#2	-	311	BFL	-	359	EDW	-	466
CA Min Rdr#3	-	312	BIH	-	375	EED	-	818
CA Min T0#2	-	316	BJC	-	1476	EE0	-	1705
CA Min T0#3	-	329	BKF	-	1392	EGE	-	1598
CO Min Alt#1	-	1360	BLH	-	381	EIK	-	1602
CO Min T0#1	-	1364	BMC	-	2133	EKA	-	492
NM Min Alt#1	-	1761	BUR	-	390	EKO	-	1980
NM Min Rdr#1	-	1765	BVU	-	1973	ELY	-	1986
NM Min T0#1	-	1767	BWC	-	387	EMT	-	485
NV Min Alt#4	-	1952	C83	-	403	ENV	-	2278
NV Min Rdr#4	-	1955	CAG	-	1443	F34	-	512
NV Min T0#4	-	1958	CAO	-	1840	F70	-	810
UT Min Alt#4	-	2116	CCB	-	1324	FAT	-	516
UT Min T0#4	-	2119	CCR	-	439	FCH	-	535
102	-	591	CDC	-	2135	FCS	-	1603
103	-	621	CEC	-	451	FFZ	-	107
1V6	-	1427	CEZ	-	1439	FHU	-	57
20V	-	1689	CGZ	-	28	FLG	-	50
2V5	-	1759	CHD	-	32	FLX	-	1989
33V	-	1757	CIC	-	419	FMN	-	1863
36U	-	2150	CLR	-	407	FNL	-	1605
40G	-	92	CMA	-	408	FOT	-	513
5T6	-	1932	CNM	-	1835	FTG	-	1563
69V	-	2152	CNO	-	426	FUL	-	540
74V	-	2205	CNY	-	2173	GCN	-	95
8V7	-	1746	COS	-	1428	GEU	-	65
AAT	-	342	CPU	-	1055	GJT	-	1633
ABQ	-	1799	CRQ	-	413	GNT	-	1879
ACV	-	348	CVH	-	574	G00	-	547
AEG	-	1816	CVN	-	1844	GUC	-	1677
AEJ	-	1422	CVS	-	1849	GUP	-	1875
AHC	-	572	CXP	-	1978	GXY	-	1645
AIB	-	1720	D68	-	236	GYR	-	86
AJO	-	447	DAG	-	457	HAF	-	552
AKO	-	1375	DEN	-	1505	HDN	-	1681
ALM	-	1778	DLO	-	464	HEQ	-	1686
ALS	-	1378	DMA	-	247	HGT	-	575
ANK	-	1745	DMN	-	1860	HHR	-	558
APA	-	1447	DPG	-	2143	HIF	-	2175
APC	-	811	DRO	-	1595	HII	-	105
APV	-	345	DTA	-	2138	HJO	-	556
ASE	-	1383	DUG	-	48	HMN	-	1782
ATS	-	1828	DVO	-	820	HMT	-	571
AUN	-	356	DVT	-	124	HND	-	1999
AVQ	-	242	DWA	-	462	HOB	-	1881
AVX	-	357	E06	-	1899	HWD	-	561

IFP	-	24	MYF	-	1073	PTV	-	955
IGM	-	101	MYV	-	759	PUB	-	1723
IKR	-	1822	NFG	-	857	PUC	-	2193
INW	-	281	NFL	-	1990	PVF	-	954
IPL	-	578	NID	-	979	PVU	-	2197
ITR	-	1424	NJK	-	478	RAL	-	988
IWA	-	135	NKX	-	1076	RBL	-	962
IYK	-	579	NLC	-	597	RDD	-	966
IZA	-	1279	NRS	-	577	REI	-	974
JAQ	-	582	NSI	-	1221	RHV	-	1176
KNB	-	2154	NTD	-	899	RIF	-	2202
L08	-	384	NUC	-	1069	RIL	-	1733
L18	-	511	NUQ	-	800	RIV	-	998
L35	-	373	NXP	-	1312	RNM	-	958
L45	-	369	NYL	-	286	RNO	-	2074
L67	-	975	NZY	-	1091	ROW	-	1908
L71	-	404	002	-	371	RQE	-	278
LAA	-	1693	008	-	436	RTN	-	1904
LAM	-	1898	022	-	434	RTS	-	2108
LAS	-	2007	027	-	821	RYN	-	255
LAX	-	655	028	-	1352	SAC	-	1024
LGB	-	636	037	-	896	SAD	-	213
LGF	-	282	041	-	1358	SAF	-	1920
LGU	-	2168	060	-	433	SAN	-	1104
LHM	-	613	069	-	952	SBA	-	1244
LHX	-	1691	088	-	986	SBD	-	1056
LMO	-	1702	OAK	-	824	SBP	-	1212
LOL	-	2068	OAR	-	743	SBS	-	1747
LPC	-	623	OGD	-	2187	SCK	-	1290
LRU	-	1890	OKB	-	869	SDL	-	215
LSN	-	735	OLS	-	115	SDM	-	1119
LSV	-	2046	ONM	-	1938	SEE	-	1122
LUF	-	72	ONT	-	874	SEZ	-	232
LVK	-	616	OVE	-	897	SFO	-	1125
LVS	-	1893	OXR	-	909	SGU	-	2266
LXV	-	1699	P08	-	46	SIY	-	781
MAE	-	739	P13	-	84	SJC	-	1181
MCC	-	1012	P19	-	41	SJN	-	237
MCE	-	763	P20	-	122	SKX	-	1941
MER	-	768	P33	-	276	SLC	-	2207
MEV	-	2071	PAN	-	123	SLI	-	649
MHR	-	1018	PAO	-	944	SMF	-	1028
MHV	-	777	PGA	-	119	SMO	-	1261
MIT	-	1282	PHX	-	147	SMX	-	1254
MLF	-	2172	PMD	-	938	SNA	-	1225
MMH	-	742	POC	-	584	SNS	-	1046
MOD	-	773	PRB	-	949	SOW	-	234
MPI	-	747	PRC	-	207	SQL	-	1065
MRY	-	782	PRZ	-	1902	SRR	-	1918
MTJ	-	1711	PS0	-	1722	STK	-	1749
MVI	-	1708	PSP	-	917	STS	-	1269

SUU	-	495
SVC	-	1933
SVE	-	1296
TAD	-	1754
TCC	-	1945
TCS	-	1943
TCY	-	1303
TEX	-	1751
TLR	-	1311
TNP	-	1319
TOA	-	1299
TPH	-	2110
TRK	-	1308
TRM	-	927
TUS	-	258
TVL	-	1283
TVY	-	2272
TYL	-	240
U42	-	2263
U52	-	2131
U69	-	2142
UDD	-	933
UKI	-	1321
VBG	-	625
VCB	-	1326
VCV	-	1341
VEL	-	2276
VGt	-	2057
VIS	-	1345
VNY	-	1330
WHP	-	732
WJF	-	593
WLW	-	1356
WMC	-	2113
WVI	-	1349
ZUN	-	1950

INSTRUMENT APPROACH PROCEDURE CHARTS
 IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS
BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD

INTL **RNAV (GPS) Rwy 16¹²**
RNAV (GPS) Rwy 34³⁴
VOR/DME Rwy 34¹⁵
¹NA when local weather not available.

²Categories A, B, 1200-2; Categories C, D, 1200-3.

³NA when control tower closed.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 2200-2; Categories C, D, 2200-3.

CARSON CITY, UT

CARSON **RNAV (GPS)-A**
Categories A, B, 1700-2; Category C, 1700-3;
Category D, 1800-3.

NA when local weather not available.

CEDAR CITY, UT

CEDAR CITY RGNL **ILS Rwy 20**
VOR Rwy 20

Category D, 900-2¾.

DOUGLAS BISBEE, AZ

BISBEE DOUGLAS

INTL **VOR/DME or GPS Rwy 17**
VOR Rwy 17

NA when control zone not in effect.

ELKO, NV

ELKO RGNL **LDA/DME RWY 23¹**
RNAV (GPS) Rwy 23²
VOR-A³
VOR/DME-B⁴
¹Categories A,B, 900-2; Category C 1000-3;
Category D, 1100-3.

²Categories A,B, 1400-2; Categories C,D, 1400-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

⁴Categories A,B, 1200-2; Categories C,D, 1200-3.

NAME ALTERNATE MINIMUMS
FLAGSTAFF, AZ

FLAGSTAFF

PULLIAM **ILS or LOC/DME Rwy 21¹²**
VOR or GPS-A³
¹NA when control tower closed.

²ILS, Categories B,C,D, 700-2.

³Category D, 800-2¾.

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-

LIBBY AAF **ILS or LOC Rwy 26**
NDB Rwy 26
RNAV (GPS) Rwy 8¹
VOR Rwy 26

NA when control tower closed.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

GLENDALE, AZ

GLENDALE MUNI **RNAV (GPS) Rwy 1**
NA when local weather not available.

GRAND CANYON, AZ

GRAND CANYON NATIONAL
PARK **ILS or LOC/DME Rwy 3**
NA when control tower closed.
Category D, 700-2.

VALLE **VOR/DME Rwy 19**

NA except for operators with approved weather reporting service.

KANAB, UT

KANAB MUNI **RNAV (GPS) Rwy 1**
Category B, 1100-2; Category C, 1400-3.

KINGMAN, AZ

KINGMAN **RNAV (GPS) Rwy 3**
RNAV (GPS) Y Rwy 21
VOR/DME Rwy 21

Category D, 800-2¾.

NAME ALTERNATE MINIMUMS
LAKE HAVASU CITY, AZ
LAKE HAVASU CITY **VOR/DME or GPS-A**
Categories A,B, 1000-2; Categories C,
1000-2½; Category D, 1000-3.

LAS VEGAS, NV
HENDERSON EXECUTIVE **RNAV (GPS)-B¹
VOR-C²**

NA when local weather not available.
¹Categories A,B, 1000-2; Category C,
1000-2½.
²Categories A, B, 2400-2; Category C, 2400-3.

MC CARRAN INTL **ILS or LOC Rwy 25L¹
ILS or LOC Rwy 25R¹
ILS or LOC/DME Rwy 1L²
RNAV (GPS) Rwy 1R³
RNAV (GPS) Rwy 19L^{4S}
RNAV (GPS) Rwy 19R^{4S}
VOR/DME -A²
VOR Rwy 25L/R³**

¹ILS, LOC, Categories A,B, 900-2; Category C,
900-2½, Category D, 900-2¾, Category E,
1400-3.

²ILS, LOC, Categories A,B, 900-2; Category C,
900-2½.

³Categories A,B, 900-2; Category C, 900-2½,
Category D, 900-2¾.

⁴Categories A,B, 900-2; Category C, 900-2¾;
Category D, 900-3.

⁵NA when local weather not available.

NORTH LAS VEGAS **ILS or LOC Rwy 12L**
NA when control tower closed.

LOVELOCK, NV
DERBY FIELD **VOR or GPS-C¹
VOR/DME or GPS-A²**

¹Categories A,B, 1900-2; Categories C,D,
1900-3.
²Categories A,B, 900-2; Category C, 900-2¾;
Category D, 900-3.

MILFORD, UT
MILFORD MUNI/BEN AND JUDY
BRISCOE FIELD **VOR or GPS-A**
Category D, 800-2½.

OGDEN, UT
OGDEN-HINCKLEY **ILS Or LOC Rwy 3¹²
RNAV (GPS) Y Rwy 3
RNAV (GPS) Z Rwy 3**

NA when local weather not available.
¹ILS, Category D, 700-2.
²NA when control tower closed.

NAME ALTERNATE MINIMUMS
PHOENIX, AZ
PHOENIX DEER VALLEY **RNAV (GPS)-B¹²
RNAV (GPS)-C³
RNAV (GPS) Rwy 7R⁴
RNAV (GPS) Rwy 25L¹⁴**

¹NA when local weather not available.

²Categories A,B, 1000-2; Category C,
1000-2¾.

³Categories A,B, 1000-2; Category C,
1000-2¾; Category D, 1100-3.

⁴Categories A,B, 1000-2; Category C,
1000-2¾; Category D, 1000-3.

PHOENIX-
MESAGATEWAY **ILS or LOC Rwy 30C¹²
RNAV (GPS) Rwy 30C¹
RNAV (GPS) Rwy 30L³
VOR or TACAN Rwy 30C¹**

¹NA when local weather not available.

²NA when control tower closed.

³Category E, 800-2½.

PHOENIX
SKY HARBOR INTL **ILS or LOC Rwy 7R¹
ILS or LOC Rwy 7L²
ILS or LOC Rwy 8³
ILS or LOC Rwy 25L²
ILS or LOC Rwy 26²
RNAV (GPS) Y Rwy 7R²
RNAV (GPS) Y Rwy 7L²
RNAV (GPS) Y Rwy 8⁴
RNAV (GPS) Y Rwy 25L²
RNAV (GPS) Y Rwy 25R²
RNAV (GPS) Y Rwy 26²**

¹ILS, Categories A,B,C, 700-2; Category D,
800-2½. LOC, Category D, 800-2½.

²Category D, 800-2½.

³ILS, Categories A,B, 800-2; Category C, 800-
2½; Category D, 800-2½. LOC, Category C,
800-2¾; Category D, 800-2½.

⁴Category C, 800-2½; Category D, 800-2½.

PRESCOTT, AZ
ERNEST A. LOVE FIELD .. **ILS/DME Rwy 21L¹²
RNAV (GPS) Rwy 21L⁴
VOR Rwy 12³**

¹NA when control tower closed.

²ILS, Category C, 700-2; Category D, 900-3.
LOC, Category D, 900-3.

³Category D, 900-3.

⁴Category D, 1000-3.

NAME **ALTERNATE MINIMUMS**
PRICE, UT
CARBON COUNTY RGNL/
BUCK DAVIS FIELD **VOR/DME Rwy 36**
VOR Rwy 36¹

Category C, 900-2½; Category D, 1100-3.

¹Categories A, B, 2000-2; Categories C, D, 2000-3.

PROVO, UT

PROVO MUNI .. **ILS or LOC/DME Rwy 13**, 700-2
Na when control tower closed.

RENO, NV

RENO/TAHOE INTL **ILS Rwy 16R**, 2100-7¹
ILS or LOC/DME Rwy 34L²
LOC Rwy 16R³
LOC/DME BC Rwy 34L⁴
RNAV (GPS) X Rwy 34L⁵
RNAV (GPS) X Rwy 34R⁵
RNAV (GPS) Y Rwy 16L⁶
RNAV (GPS) Y Rwy 16R⁷
RNAV (GPS) Y Rwy 34L⁴
RNAV (GPS) Y Rwy 34R⁸
RNAV (RNP) Z Rwy 16R, 800-2½
VOR-D, 1600-3

¹LOC, NA.

²ILS, LOC, Categories A,B, 1000-2; Category C, 1000-2½.

³Categories A,B, 1600-2; Categories C,D, 1600-3; Category E, 2400-3.

⁴Categories A,B, 1000-2; Categories C,D, 1000-3.

⁵Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

⁶Categories A,B, 1400-2; Categories C,D, 1400-3.

⁷Categories A,B, 1800-2; Categories C,D, 1800-3.

⁸Categories A,B, 1000-2; Category C, 1000-2½.

ST. GEORGE, UT

ST. GEORGE MUNI **RNAV (GPS) Rwy 34¹**
VOR or GPS-B, 1300-2²
VOR-C, 1800-3²
VOR/DME Rwy 34²³

¹Categories A,B 1100-2½; Categories C,D, 1100-3.

²NA except for operators with approved weather reporting service.

³Category C, 800-2½; Category D, 1000-3.

ST. JOHNS, AZ

ST. JOHNS
INDUSTRIAL AIRPARK **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
SCOTTSDALE, AZ
SCOTTSDALE **RNAV (GPS)-D¹**
RNAV (GPS)-E¹
VOR or GPS-A²³
VOR or GPS-C²⁴

¹NA when local weather not available.

²NA when Scottsdale altimeter not available.

³Categories A,B,C, 1100-3.

⁴Categories A,B, 900-2½; Category C, 900-2¾.

TONOPAH, NV

TONOPAH **VOR or GPS-A**
Category D, 800-2¾.

TOOELE, UT

BOLINDER FIELD-
TOOELE VALLEY **ILS or LOC/DME Rwy 17¹**
RNAV (GPS) Rwy 17

NA when local weather not available.

¹ILS, Category D, 700-2.

TUCSON, AZ

TUCSON INTL **ILS or LOC Rwy 11L¹**
LOC/DME BC Rwy 29R²
RNAV (GPS) Z Rwy 11L²
RNAV (GPS) Rwy 29R²
RNAV (GPS) Rwy 3³
RNAV (GPS) Rwy 29L⁴
RNAV (GPS) Z Rwy 29R²
VOR or TACAN Rwy 11L²
VOR/DME or TACAN Rwy 29R²

¹ILS, LOC, Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3; Category E, 1100-3.

²Category E, 1100-3.

³Categories A,B,C,D, 800-2¾.

⁴Category D, 800-2¾.

WENDOVER, UT

WENDOVER **VOR/DME-B¹**
VOR/DME or TACAN Rwy 26²
¹Categories A,B, 1700-2; Categories C,D,E, 1700-3.
²Category E, 800-2¾.

WINNEMUCCA, NV

WINNEMUCCA MUNI **RNAV (GPS) Rwy 14¹²**
RNAV (GPS) Rwy 32¹
VOR/DME Rwy 14³

¹NA when local weather not available.

²Category C, 800-2¾; Category D, 800-2½.

³Category D, 1300-3.

WINDOW ROCK, AZ

WINDOW ROCK **VOR/DME-A**
Categories A,B, 1100-2; Categories C,D, 1100-3.

RADAR INSTRUMENT APPROACH MINIMUMS

DAVIS-MONTHAN AFB (KDMA), AZ (Tucson) (07242 USAF)

ELEV 2704

RADAR¹ - (E) 118.5 125.1 318.1 297.2 ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR	30 ²	3.0°/59/1320	ABCDE	2904 -½	200	(200-½)
	12 ³	3.0°/59/950	ABCDE	2815 -¾	200	(200-¾)

¹No NOTAM MP 1100-1300Z dly. PAR opr 1700-0300Z wkd or termination of A10 flying (contact scheduling for times at DSN 228-5777). ²When ALS inop, increase vis ¼ mile. ³NOT FOR CIVIL USE.

FALLON NAS (KNFL), (VAN VOORHIS FIELD), NV (03191 USN)

ELEV 3934

RADAR¹ - (E) 118.3x 121.875x 262.8x 275.6x 310.6x 345.2x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ²	31L	3.5°/55/905	ABCDE	4126 -¾	200	(200-¾)
	31R	3.5°/55/903	ABCDE	4128 -¾	200	(200-¾)
	13L	3.0°/46/881	ABCDE	4134 -¾	200	(200-¾)
	13R	3.0°/47/912	ABCDE	4134 -¾	200	(200-¾)
	7	3.0°/36/679	ABCDE	4129 -¾	200	(200-¾)
ASR ²	31R		ABCDE	4200 -1	272	(300-1)
	31L		ABCDE	4200 -1	274	(300-1)
	13R		ABCD	4260 -1	326	(400-1)
			E	4260 -1¼	326	(400-1¼)
	13L		ABC	4280 -1	346	(400-1)
			DE	4280 -1¼	346	(400-1¼)
	7		AB	4340 -1	411	(500-1)
			CD	4340 -1¼	411	(500-1¼)
			E	4340 -1½	411	(500-1½)
CIR	All Rwy		AB	4400 -1	466	(500-1)
			C	4400 -1½	466	(500-1½)
			D	4520 -2	586	(600-2)
			E	4980 -3	1046	(1100-3)

CAUTION: ATC Missed Approach Minimum Climb Rate

PAR/ASR	Rwy	Knots	60	120	180	240	300	360
	7 ³	FPM	300	600	900	1200	1500	1800
	13L/R ⁴	FPM	250	500	750	1000	1250	1500
	31L/R ⁴	FPM	270	540	810	1080	1350	1620

¹No-NOTAM MP sked: PAR-2200-0000Z++ Thu, ASR-1500-1700Z++ Wed, when ceil-vis 3000-5 and above. ²Descent to 5700' not authorized until inbound in initial segment within 10 NM of Rwy.

³To 7500'. ⁴To 7300'.

RADAR INSTRUMENT APPROACH MINIMUMS

FORT HUACHUCA/SIERRA VISTA, AZ Amdt. 4A, OCT 22, 2009 (FAA) ELEV 4719

SIERRA VISTA MUNI-LIBBY AAF

RADAR¹ - (E) 127.05 254.35   NA

			DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
RWYGS/TCH/RPICAT									
PAR ²	8	ABCDE	4919-¾	200	(200-¾)				
	26	ABCDE	4829-¾	200	(200-¾)				
ASR	26	ABC	5000-1	371	(400-1)	DE	5000-1¼	371	(400-1¼)
	8	AB	5440-1	721	(800-1)	C	5440-2	721	(800-2)
CIR ³		D	5440-2¼	721	(800-2¼)	E	5440-2½	721	(800-2½)
	26	A	5100-1	381	(400-1)	B	5180-1	461	(500-2)
		C	5180-1½	461	(500-1½)	D	5280-2	561	(600-2)
		E	5400-2½	681	(700-2½)				
	8	AB	5440-1	721	(800-1)	C	5440-2	721	(800-2)
		D	5440-2¼	721	(800-2¼)	E	5440-2½	721	(800-2½)

¹Opr 1500-2300Z Monday-Friday, except for holidays. ²No NOTAM maintenance period 1500-1900Z on the first Thursday of the month. ³Circling not authorized south of runways 8 and 30.

YUMA MCAS/YUMA INTL (KNYL), AZ (09323 USN)

ELEV 213

RADAR - (E) 120.9x 124.15x 125.55x 125.95x 254.0x 270.8x 278.7x 286.0x 301.2x 305.2x 

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
PAR	3L	3.0°/54/1018	ABCDE	295-½	100	(100-½)
	21R ¹	3.0°/54/1067	ABCDE	393-½	200	(200-½)
PAR 3R			AB	520-1	332	(400-1)
SIDESTEP			C	520-1½	332	(400-1½)
			DE	520-2	332	(400-2)
PAR 21L SIDESTEP			ABC	600-1¾	393	(400-1¾)
			DE	600-2¼	393	(400-2¼)
PAR W/O GS 3L			ABCD	520-1	325	(400-1)
			E	520-1¼	325	(400-1¼)
PAR W/O GS 3R			AB	520-1	332	(400-1)
SIDESTEP			C	520-1½	332	(400-1½)
			DE	520-2	332	(400-2)
PAR W/O GS 21R ²			AB	600-½	407	(400-½)
			CD	600-¾	407	(400-¾)
			E	600-1	407	(400-1)
PAR W/O GS 21L			ABC	600-1¾	393	(400-1¾)
SIDESTEP			DE	600-2¼	393	(400-2¼)
ASR	3L		ABC	540-1	345	(400-1)
			DE	540-1¼	345	(400-1¼)
	3R		AB	600-1	412	(400-1)
			CD	600-1¼	412	(400-1¼)
			E	600-1½	412	(400-1½)
	21L		ABC	600-1	393	(400-1)
			D	600-1¼	393	(400-1¼)
			E	600-1½	393	(400-1½)
	21R ³		AB	620-½	427	(500-½)
			C	620-¾	427	(500-¾)
			DE	620-1	427	(500-1)
CIR ⁴	ALL RWY		AB	700-1	487	(500-1)
			C	700-1½	487	(500-1½)
			D	780-2	567	(600-2)
			E	800-2	587	(600-2)

¹When ALS inop, increase CAT ABCDE vis to ¾ mile. ²When ALS inop, increase CAT AB vis to 1 mile, CAT CD to 1¼ miles, CAT E to 1½ miles. ³When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1¼ miles, CAT DE to 1½ miles. ⁴When circling from PAR W/O GS Rwy 21R, increase CAT ABC vis to 1¾ miles, CAT DE to 2¼ miles.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min climb of 282' per NM to 7300 or 4700-3 for climb in visual conditions. **Rwy 12**, std. w/ a min climb of 386' per NM to 7600 or 4700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8200 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 12**, climb heading 122° and BAM R-076 to 10000 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 21**, climb direct BAM VORTAC and BAM R-205 to 10100 before proceeding on course. **Rwy 30**, climb heading 302° and BAM R-324 to 9100 before proceeding on course.

BEAVER, UT

BEAVER MUNI

TAKE-OFF MINIMUMS: **Rwys 7, 25**, NA-obstacles. **Rwys 13, 31**, 2600-234 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb in visual conditions to cross Beaver Muni Airport Northwestbound at or above 8300 then climb to 10100 via MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210 KIAS until established on MLF VORTAC R-102.

NAME TAKE-OFF MINIMUMS

BLANDING, UT

BLANDING MUNI

TAKE-OFF MINIMUMS: **Rwy 35**, 800-1 or std. with a min. climb of 350 feet per NM to 6700.

DEPARTURE PROCEDURE: **Rwy 17**, turn left. **Rwy 35**, turn right climb to 9000 via heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

BRIGHAM CITY, UT

BRIGHAM CITY (BMC)

AMDT 5 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, std. w/ min. climb of 325' per NM to 5300 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn heading 205° and OGD R-331 to OGD VORTAC. **Rwy 34**, climbing left turn heading 205° and OGD R-331 to OGD VORTAC or for climb in visual conditions: cross Brigham City airport southbound at or above 9200 then via OGD R-351 to OGD VORTAC.

NOTE: **Rwy 16**, poles 266' from DER, 558' right of centerline, 30' AGL/4258' MSL.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)

AMDT 1 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 370' per NM to 1800, or 1700-3 for climb in visual conditions. **Rwy 34**, std. w/ a min. climb of 495' per NM to 5500, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 164° and EED VORTAC R-334 to EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **Rwy 34**, climb via heading 344° to 1600, then climbing right turn direct EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **All**

Aircraft climb in EED VORTAC holding pattern (East, right turn, 257° inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 16**, multiple bushes beginning 3600' from DER, left of centerline, up to 12' AGL/1029' MSL.

Rwy 34, multiple poles beginning 2211' from DER, right of centerline, up to 105' AGL/821' MSL.

CARSON CITY, NV

CARSON (CXP)

ORIG 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 9**, use JIMPA DEPARTURE.

CASA GRANDE, AZ

CASA GRANDE MUNI

DEPARTURE PROCEDURE: **Rwy 5**, right turn. **Rwy 23**, climb direct TFD VORTAC. Continue climb in holding pattern (SW, right turn, 048° inbound) to MEA for direction of flight.

CEDAR CITY, UT

CEDAR CITY RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 3500-3 or std. with a min. climb of 450' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 20, 26**, turn right. **Rwys 2, 8**, turn left, climb direct to CDC VOR/DME, continue climb to 9000 via R-348. Northbound continue on course. All others reverse course, climb to cross CDC VOR/DME at or above MCA for direction of flight.

CHANDLER, AZ

CHANDLER MUNI

DEPARTURE PROCEDURE: **Rwy 4R**, climbing left turn heading 220°. **Rwys 22L, 22R**, climbing left turn heading 190°. **All Aircraft**, continue climb via TFD R-350 to TFD VORTAC.

NOTE: **Rwy 4L**, multiple towers and buildings beginning 69' from departure end of runway, 397' left of centerline, up to 80' AGL/1319' MSL.

CHANDLER, AZ (CON'T)

STELLAR AIRPARK

DEPARTURE PROCEDURE: **Rwy 17**, turn left, climb via heading 150°. **Rwy 35**, turn right. **All aircraft** climb via TFD R-350 direct TFD VORTAC.

NOTE: **Rwy 17**, tower and signs beginning 574' from departure end of runway, 183' right of centerline, up to 50' AGL/1124' MSL. Sign 611' from departure end of runway, 365' left of centerline, 42' AGL/1214' MSL.

COLORADO CITY, AZ

COLORADO CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwys 20, 29, turn left. **All aircraft** climb to 7400 via the 160° bearing from AZC NDB then continue climb on course.

COOLIDGE, AZ

COOLIDGE MUNI

DEPARTURE PROCEDURE: **Rwys 5, 35**, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course. **Rwy 17**, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course. **Rwy 23**, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

DAVIS-MONTHAN AFB (KDMA)

TUCSON, AZ.07186

Diverse departures not authorized, use published departure procedure for obstacle avoidance.

TAKE-OFF OBSTACLES: **Rwy 12**: Terrain 0' AGL/2707' MSL, 81' from DER, 500' left of centerline. Terrain 0' AGL/2707' MSL, 46' from DER, 512' left of centerline. Terrain 0' AGL/2707' MSL, 16' from DER, 500' left of centerline. Terrain 0' AGL/2706' MSL, 0' from DER, 200' left of centerline. **Rwy 30**: Terrain 0' AGL/2592' MSL, 0' from DER, 106' left of centerline. Terrain 0' AGL/2592' MSL, 7' from DER, 97' left of centerline. Terrain 0' AGL/2592' MSL, 0' from DER, 484' right of centerline. Terrain 0' AGL/2592' MSL, 13' from DER, 493' right of centerline. Vehicle 11' AGL/2615' MSL, 1017' from DER, 477' left of centerline. Terrain 0' AGL/2612' MSL, 237' from DER, 590' left of centerline.

DELTA, UT

DELTA MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 412' per NM to 6600, or 1800-3 for climb in visual conditions. Climb in visual conditions NA at night. **Rwy 12**, NA-terrain. **Rwy 30**, NA-airspace.

DEPARTURE PROCEDURE: **Rwy 17**, climb via DTA VORTAC R-347 to DTA VORTAC, or climb in visual conditions to cross departure end of runway southbound at or above 6400, then via DTA VORTAC R-347 to DTA VORTAC, thence...**Rwy 35**, climb via heading 346° to 5800, then climbing left turn via heading 180° and DTA VORTAC R-310 to DTA VORTAC, thence...
...climb in holding pattern (hold south, left turn, 004° inbound) to cross DTA VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 17**, trees 1598' from departure end of runway, 62' right of centerline, 60' AGL/4799' MSL.

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL

DEPARTURE PROCEDURE: Climb to 5700 in holding pattern, right turn to 140 inbound DUG VORTAC, then assigned route. CAT C,D turbojets climb not to exceed 250 kts. to 8000.

DUCHESNE, UT

DUCHESNE MUNI

DEPARTURE PROCEDURE: Climb direct to MTU VORTAC to depart at or above 7200 eastbound or 10000 westbound.

ELKO, NV

ELKO RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. with a min. climb of 330' per NM to 8000. **Rwy 23**, 2500-3 or std. with a min. climb of 340' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 6000, then climbing right turn direct BQU VOR/DME, then...

Rwy 23, (V32 Southwest) climb to 6000, then climbing left turn heading 200° to intercept BQU R-241 (V32).

Rwy 23, all others climb runway heading to 6000, then climbing left turn direct BQU VOR/DME, then... climb in BQU VOR/DME holding pattern (S, left turns, 340° inbound) to cross BQU VOR/DME at the MEA/MCA/MOCA for direction of flight.

ELY, NV

ELY AIRPORT-YELLAND FIELD

TAKE-OFF MINIMUMS: **Rwys 30,36**, 3000-2 or std. with a min. climb of 700' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 12,30,36**, right turn; **Rwy 18**, straight ahead; intercept. ELY VOR/DME R-150 to 10000. Aircraft departing on V293 southeast climb on course to MEA. Departures V269 or V293 northbound, reverse course to the left, continue climb to cross ELY VOR/DME at or above 12000.

FALLON, NV

FALLON MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 350' per NM to 4300.

DEPARTURE PROCEDURE: **Rwy 21**, turn right.

Rwys 3,13,31, turn left. All departures climb via HZN R-075 to HZN VORTAC. Climb in holding pattern (W, right turns, 075° inbound) to depart HZN VORTAC at or above: R-240 CWR-149, 8000; R-150 CWR-239, 9000. Continue climb on course to MEA or assigned altitude.

FALLON NAS (KNFL)

FALLON, NV

Diverse departures not authorized.

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. Aircraft departing FLG R-160 CWR-175 climb on course. All others climb southbound on FLG R-172 to 9000, then climbing left turn direct FLG VOR/DME.

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF

TAKE-OFF MINIMUMS: **Rwy 21**, NA.

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

Rwys 26,30, turn right. All aircraft climb to 9500 to TOMBS Int via FHU VOR R-019 or 018° bearing from DAO NDB.

GLENDALE, AZ

GLENDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 19**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 1**, Use DRAKE (RNAV) DEPARTURE.

GLOBE, AZ

SAN CARLOS APACHE (P13)

ADMT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR

TAKE-OFF MINIMUMS: **Rwy 3**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 21**, Use POTER DEPARTURE.

GRAND CANYON, AZ

GRAND CANYON NATIONAL PARK

TAKE-OFF MINIMUMS: **Rwy 3**, NA-environmental.

DEPARTURE PROCEDURE: **Rwy 21**, use GRAND DEPARTURE.

HEBER CITY, UT

HEBER CITY MUNI-RUSS MCDONALD FIELD

DEPARTURE PROCEDURE: **Rwy 3**, Use COOLI RNAV DEPARTURE.

HILL AFB (KHIF)

OGDEN, UT

Diverse departures not authorized, use radar vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT

HUNTINGTON MUNI (69V)

AMDT 2A 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18,26,36**, NA. **Rwy 30**, 1700-3 or std. with a min. climb of 300' per NM to 8100.

DEPARTURE PROCEDURE: **Rwys 8,12**, climbing left turn direct PUC VOR/DME...

Rwy 30, climbing right turn direct PUC VOR/DME.... continue climb in PUC VOR/DME holding pattern (hold S, right turns, 009° inbound) to MEA for direction of flight.

NOTE: **Rwy 8**, tree 2663' from DER, 922' left of centerline, 40° AGL/5979' MSL. **Rwy 12**, tree 333' from DER, 132' right of centerline, 40° AGL/5919' MSL.

Rwy 30, tree 2065' from DER, 875' left of centerline, 40° AGL/5999' MSL.

KANAB, UT**KANAB MUNI**

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 316' per NM to 7200.

NOTE: Use KACIR ONE RNAV DEPARTURE.

KINGMAN, AZ**KINGMAN**

TAKE-OFF MINIMUMS: **Rwys 3, 17, 21, 35**, 800-1 or std. with a min. climb of 210' per NM to 7000.

DEPARTURE PROCEDURE: Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. If unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).

LAGUNA AAF (LGF)**YUMA PROVING GROUND, AZ (03247)**

Rwy 6, 18, 36 turn right, climb to 3600 direct BZA VORTAC.

Rwy 24 climb to 3600 direct to BZA VORTAC.

TAKE-OFF OBSTACLES:

Rwy 18: 386' (6' AGL) windsock, 818' from departure end of rwy, 194' left of centerline.

LAKE HAVASU CITY, AZ**LAKE HAVASU CITY**

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1½ or std. w/ min. climb of 278' per NM to 1200. **Rwy 32**, 600-1½ or std. w/ min. climb of 492' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight. **Rwy 32**, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 14**, obstruction light on transmission tower, 1.2 NM from departure end of runway, 1885' left of centerline, 151' AGL/1027' MSL. Transmission tower 1.4 NM from departure end of runway, 1953' left of centerline, 145' AGL/1058' MSL. Bush 1080' from departure end of runway, 500' left of centerline, 31' AGL/825' MSL. Terrain 145' from departure end of runway, 347' left of centerline, 14' AGL/797' MSL. Bush 1256' from departure end of runway, 255' left of centerline, 35' AGL/818' MSL. **Rwy 32**, obstruction light on transmission tower 4052' from departure end of runway, 932' right of centerline, 180' AGL/974' MSL. Transmission tower 2504' from departure end of runway, 1009' right of centerline, 112' AGL/903' MSL.

LAS VEGAS, NV**HENDERSON EXECUTIVE**

TAKE-OFF MINIMUMS: **Rwy 17L/R**, Cat A/B std. with a min. climb of 491' per NM to 6000, or 2100-3 for climb in visual conditions, Cat C/D NA. **Rwy 35L/R**, Cat A/B std. with a min. climb of 312' per NM to 4700, or 2100-3 for climb in visual conditions, Cat C/D NA.

DEPARTURE PROCEDURE: **Rwy 17L/R**, climbing right turn via LAS R-157 to LAS VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC. **Rwy 35L/R**, climbing right turn via BLD R-257 to BLD VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC.

NOTE: **Rwy 17L**, tree 5610' from departure end of runway, 82' left of centerline, 100' AGL/2739' MSL. Tree 1.9 miles from departure end of runway, 1495' left of centerline, 100' AGL/2859' MSL. **Rwy 17R**, tree 4041' from departure end of runway, 859' left of centerline, 100' AGL/2739' MSL.

MCCARRAN INTL (KLAS)

TAKE-OFF MINIMUMS: **Rwy 25R**, 200-1 or std. with a min. climb of 220' per NM to 2400.

DEPARTURE PROCEDURE: **Rwys 1L, 1R**, climbing right turn direct BLD VORTAC. **Rwys 7L, 7R**, climb via heading 075° to 3400 then climbing right turn direct BLD VORTAC. **Rwys 19L, 19R**, climbing left turn via heading 120° and BLD VORTAC R-257 to BLD VORTAC. **Rwys 25L, 25R**, climb via heading 255° to 2700 then climbing right turn direct BLD VORTAC.

NOTE: **Rwy 1L**, multiple poles, tree, and building 450' from departure end of runway, 283' left of centerline, up to 174' AGL/2132' MSL. Obstruction light on WSK 248' from departure end of runway, 224' right of centerline, 15' AGL/2104' MSL. **Rwy 1R**, multiple sign and building 1331' from departure end of runway, 448' right of centerline, up to 100' AGL/2120' MSL. **Rwy 7L**, multiple poles and trees 747' from departure end of runway, 442' right of centerline, up to 62' AGL/2062' MSL. Tree 1257' from departure end of runway, 789' left of centerline, 65' AGL/2077' MSL. **Rwy 7R**, lighted WSK 126' from departure end of runway, 290' right of centerline, 25' AGL/2051' MSL. **Rwy 19L**, multiple poles, sign and building 1394' from departure end of runway, 320' right of centerline, up to 51' AGL/2256' MSL. **Rwy 19R**, multiple poles, sign, and building 197' from departure end of runway, 125' right of centerline, up to 51' AGL/2256' MSL. Multiple pole and building 1396' from departure end of runway, 356' left of centerline, up to 47' AGL/2262' MSL. **Rwy 25L**, multiple poles, sign, and building 1003' from departure end of runway, 251' left of centerline, up to 63' AGL/2256' MSL. **Rwy 25R**, multiple poles and road 675' from departure end of runway, 17' right of centerline, up to 100' AGL/2301' MSL. Multiple poles and buildings 533' from departure end of runway, 1' left of centerline, up to 150' AGL/2469' MSL.

NORTH LAS VEGAS (VGT)**AMDT 3 08045 (FAA)**

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.

LOGAN, UT

LOGAN-CACHE (LGU)

AMDT 8 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10,28**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwys 17, 35**, use ORNEY DEPARTURE.

LOVELOCK, NV

DERBY FIELD (LOL)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 2300-2 or std. with a min. climb of 300' per NM to 6200. **Rwy 7**, 1100-1 or std. with a min. climb of 250' per NM to 5000. **Rwys 19, 25**, 2300-2 or std. with a min. climb of 260' per NM to 6200.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

Rwys 7,19,25, turn left, climb direct LLC VORTAC. Aircraft departing 330° CW 359° climb via LLC R-333 to ROBUD INT; 360° CW 089° climb in LLC VORTAC holding pattern (hold NW, left turns, 153° inbound) to depart LLC VORTAC at or above 8600; 090° CW 219° climb on course; 220° CW 329° climb in LLC VORTAC holding pattern to depart LLC VORTAC at or above 8600. Continue climb on course to MEA or assigned altitude.

LUKE AFB (KLUF)

GLENDAL, AZ AMDT 3, 09183

Diverse departures not authorized.

Use published DP, if unable to comply with DP notify clearance delivery and request RADAR Vectors.

TAKE-OFF OBSTACLES:

RWY 3L: Taxiing aircraft, 19' AGL/1126' MSL, 1221' from DER, 782' left of centerline. Taxiing aircraft, 19' AGL/1126' MSL, 1407' from DER, 609' left of centerline. Weather equipment, 15' AGL/1117' MSL, 759' from DER, 505' right of centerline. Weather equipment, 15' AGL/1117' MSL, 1209' from DER, 505' right of centerline. Building, 20' AGL/1127' MSL, 1620' from DER, 925' left of centerline.

RWY 21L: Taxiing aircraft, 38' AGL/1120' MSL, 1428' from DER, 774' left of centerline.

MESA, AZ

FALCON FIELD

TAKE-OFF MINIMUMS: **Rwys 4L,4R**, std. with a min. climb of 459' per NM to 3600, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4L, 4R**, climbing left turn to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound. For climb in visual conditions cross FFZ NDB at or above 2300 then proceed via 220° bearing to PXR R-143 southeast bound. **Rwy 22L, 22R**, climb to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound.

NOTE: **Rwy 4L**, light standard 416' from departure end of runway, 415' left of centerline, 48' AGL/1428' MSL. Obstacle light on building 1313' from departure end of runway, 424' left of centerline, 54' AGL/1434' MSL. **Rwy 4R**, light standard 514' from departure end of runway, 565' right of centerline, 48' AGL/1441' MSL. Tree 1097' from departure end of runway, 650' right of centerline, 50' AGL/1448' MSL. Tree 1060' from departure end of runway, 359' right of centerline, 50' AGL/1451' MSL. **Rwy 22L**, light pole 254' from departure end of runway, 538' right of centerline, 13' AGL/1382' MSL. Windmill 691' from departure end of runway, 528' right of centerline, 30' AGL/1389' MSL. Windmill 715' from departure end of runway, 603' right of centerline, 30' AGL/1389' MSL. Light pole 68' from departure end of runway, 764' right of centerline, 13' AGL/1382' MSL. Tree 175' from departure end of runway, 826' right of centerline, 13' AGL/1383' MSL. **Rwy 22R**, light pole 296' from departure end of runway, 541' right of centerline 13' AGL/1400' MSL. Light pole 495' from departure end of runway, 187' right of centerline, 13' AGL/1382' MSL. Light pole 594' from departure end of runway, 65' right of centerline, 13' AGL/1382' MSL.

MESQUITE, NV

MESQUITE

TAKE-OFF MINIMUMS: **Rwy 1**, 900-3, or std. with a min. climb of 620' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn, **Rwy 19**, climbing right turn. **All aircraft** climb direct MMM VORTAC. Aircraft departing MMM R-149 CW R-220 climb on course. All others continue climb via MMM R-196 to 6100 and reverse course to cross MMM VORTAC at or above: R-221 CW R-270 and R-331 CW R-060, 6100; R-271 CW R-330, 7300; R-061 CW R-150, 8300.

MICHAEL AAF (KDPG),

DUGWAY PROVING GROUND, UT

.....Amdt 1, 09099
Rwy 12, 4700-3*

* Or standard with minimum climb of 305 ft/NM to 6100.

DEPARTURE PROCEDURES: **Rwy 12** Climb via heading 122° to 6100, then right turn direct DPG NDB. Continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course, or for climb in visual conditions: Cross Michael AAF, Dugway Proving Ground at or above 8900 before proceeding on course. **Rwy 30** Climb via heading 302° to 6100 then left turn direct DPG NDB, continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD

TAKE-OFF MINIMUMS: **Rwy 34**, CAT A,B 1200-2 or std. with a min. climb of 360' per NM to 6500. CAT C,D NA.
DEPARTURE PROCEDURE: **Rwy 16**, climb direct MLF VORTAC. **Rwy 34**, climbing left turn direct MLF VORTAC. Aircraft departing MLF R-170 CW R-210 climb on course. All other aircraft continue climb southbound via MLF R-190 to 7600, then climbing right turn to cross MLF VORTAC at or above 9000, then climb on course.

MINDEN, NV

MINDEN-TAHOE

TAKE-OFF MINIMUMS: **Rwys 12,16,30**, NA. **Rwy 34**, 4000-3 or std. with a min. climb of 531' per NM to 8700.
DEPARTURE PROCEDURE: **Rwy 34**, use MINDEN RNAV DEPARTURE.

MOAB, UT

CANYONLANDS FIELD

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 320' per NM to 5800. **Rwy 21**, std. with a min. climb of 330' per NM to 5400.
DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwy 21**, turn right climb to 6700 via OAB R-293, then climbing right turn direct OAB VOR/DME. Climb in OAB holding pattern (NW, left turns, 113° inbound) to 10000 then proceed on course.
NOTE: **Rwy 3**, tree 4383' from departure end of runway, 1507' right of centerline, 50' AGL/4729' MSL. Road 1749' from departure end of runway, 905' left of centerline, 15' AGL/4635' MSL. Tree 3914' from departure end of runway, 1166' right of centerline, 50' AGL/4690' MSL. Tree 1.25 NM from departure end of runway, 400' right of centerline, 50' AGL/4758' MSL.
Rwy 21, pole 2026' from departure end of runway, 78' right of centerline, 80' AGL/4625' MSL. Pole 2061' from departure end of runway, 40' right of centerline, 80' AGL/4625' MSL. Pole 2095' from departure end of runway, 857' right of centerline, 80' AGL/4623' MSL. Pole 1980' from departure end of runway, 344' right of centerline, 80' AGL/4602' MSL.

NELLIS AFB (KLSV)

LAS VEGAS, NV

08241

Rwy 3L/R, 10,200-3° SR-SS
Rwy 21L/R, 10,200-3° SR-SS
Diverse departure not authorized.
MILITARY: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 300' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vector climb gradient, A/C must depart VFR.
* CIVIL: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 330' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vectors climb gradient, A/C may use published weather minimums or depart VFR.
TAKE-OFF OBSTACLES: **RWY 3L**: Terrain 0' AGL/1870' MSL, 0' inward of DER, 500' left of centerline. Road 15' AGL/1934' MSL, 1321' from DER, 802' left of centerline. **RWY 3R**: C-5 on taxiway 65' AGL/1936' MSL, 1345' from DER, 822' right of centerline. Road 15' AGL/2014' MSL, 3929' from DER, 1404' right of centerline. **RWY 21L**: Trees 90' AGL/1949' MSL, 4594' from DER, 1596' right of centerline. Trees 90' AGL/1949' MSL, 4940' from DER, 541' right of centerline. Trees 60' AGL/1899' MSL 929' from DER, 724' left of centerline. Trees 60' AGL/1899' MSL, 946' from DER, 626' left of centerline. Trees 60' AGL/1899' MSL, 2720' from DER, 341' left of centerline. Trees 60' AGL/1899' MSL, 2514' from DER, 403' left of centerline.
RWY 21R: Terrain 0' AGL/1835' MSL, 0' inward of DER, 500' right of centerline. Trees 90' AGL/1949' MSL, 4594' from DER, 597' right of centerline. Building 45' AGL/1904' MSL, 2274' from DER, 1037' right of centerline. Road 15' AGL/1874' MSL, 1404' from DER, 465' right of centerline.

NOGALES, AZ

NOGALES INTL (OLS)

AMDT 2 09351 (FAA)

TAKE-OFF MINIMUMS: Use NOGALES DEPARTURE.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,16**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwys 3, 21, 25, 34**, Use EMONT DEPARTURE.

PAGE, AZ

PAGE MUNI (PGA)

AMDT 2 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25, NA**—obstacles **Rwy 15**, 300-1 or std. w/ min. climb of 252' per NM to 6500, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climb via 157° heading to 6000, then climbing right turn to PGA VOR/DME. cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA, or climb in visual conditions: cross Page airport at or above 6100, before proceeding on course. **Rwy 33**, climb via 337° heading to 6000, then climbing left turn to PGA VOR/DME. Cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA.

NOTE: **Rwy 15**, terrain 192' from departure end of runway, 274' right of centerline, 4323' MSL, tree 1.07 NM from departure end of runway, 167' left of centerline, 4519 MSL, transmission lines 1.96 NM from departure end of runway, 825' left of centerline, 100' AGL/4519' MSL, power line 4.00 NM from departure end of runway, 3606' right of centerline, 75' AGL/4819' MSL, power line 4.35 NM from departure end of runway, 3968' right of centerline, 75' AGL/4919' MSL, power line 5.36 NM from departure end of runway, 5039' right of centerline, 75' AGL/5119' MSL, power line 4.51 NM from departure end of runway, 4136' right of centerline, 75' AGL/5019' MSL, tree 4.52 NM from departure end of runway, 1508' right of centerline, 100' AGL/5173' MSL, AAO 4.58 NM from departure end of runway, 1617' right of centerline, 200' AGL/5187' MSL, AAO 5.15 NM from departure end of runway, 4456' left of centerline, 200' AGL/5190' MSL, tree 5.56 NM from departure end of runway, 4097' right of centerline, 30' AGL/5249' MSL, AAO 5.98 NM from departure end of runway, 653' left of centerline, 200' AGL/5440' MSL.

PARKER, AZ

AVI SUQUILLA

TAKE-OFF MINIMUMS: **Rwy 1**, 800-1½. **Rwy 19**, 300-1. DEPARTURE PROCEDURE: **Rwy 19**, right turn. **Rwy 1**, left turn. Climb via R-067 to PKE VORTAC, to cross above 4500. Continue climb on course to MEA or assigned altitude.

PAYSON, AZ

PAYSON

TAKE-OFF MINIMUMS: **Rwy 6**, std. with a min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions. **Rwy 24**, std. with a min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions. DEPARTURE PROCEDURE: **Rwys 6, 24**, for climb in visual conditions: Cross Payson Airport at or above 7500, then proceed on course.

NOTE: **Rwy 24**, bush 15' from departure end of runway, 133' right of centerline, 6' AGL/5148' MSL. Tree 320' from departure end of runway, 183' right of centerline, 12' AGL/5154' MSL. Fence 85' from departure end of runway, 84' left of centerline, 4' AGL/5141' MSL. Tree 164' from departure end of runway, 126' left of centerline, 9' AGL/5147' MSL.

PHOENIX, AZ

PHOENIX-DEER VALLEY

DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.

PHOENIX SKY HARBOR INTL (PHX)

AMDT 4A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. with a min. climb of 358' per NM to 2000.

DEPARTURE PROCEDURE: **Rwys 7L, 7R, 8**, climb via 078° heading to 3000, then climbing right turn direct PHOENIX (PXR) VORTAC. **Rwys 25L, 25R**, climb via 258° heading to 1550 then climbing right turn to join the PXR R-260 (V16) westbound, climb to 5000. **Rwy 26**, climb via 258° heading to 1550 then climbing left turn to join the PXR R-260 (V16) westbound, climb to 5000. Westbound departures continue climb on PXR R-260. All others, climbing right turn direct PXR VORTAC.

NOTE: **Rwy 7L**, building 1332' from DER, 798' left of centerline, 67' AGL/1176' MSL. **Rwy 7R**, rd 716' from DER, 184' right of centerline, 87' AGL/1196' MSL. **Rwy 8**, light standard 3530' from DER, 1207' left of centerline, 123' AGL/1232' MSL. Light standard 3479' from DER, 1003' left of centerline, 118' AGL/1227' MSL. **Rwy 25L**, light standard 1129' from DER, 774' left of centerline, 91' AGL/1200' MSL. ASDE-X equipment 411' from DER, 531' left of centerline, 29' AGL/1135' MSL. **Rwy 26**, light 59' from DER, 63' right of centerline, 16' AGL/1125' MSL. Pole 58' from DER, 90' right of centerline, 25' AGL/1125' MSL. Light 78' from DER of runway, 64' right of centerline, 18' AGL/1127' MSL. Light 38' from DER, 440' left of centerline, 24' AGL/1135' MSL. Light standard 77' from DER, 453' left of centerline, 27' AGL/1136' MSL. Light standard 74' from DER, 456' right of centerline, 33' AGL/1142' MSL. Light standard 77' from DER, 434' right of centerline, 31' AGL/1140' MSL. Tree 113' from DER, 294' right of centerline, 24' AGL/1133' MSL. Building 2.32 NM from DER, 3309' right of centerline, 406' AGL/1496' MSL. Building 2.28 NM from DER, 3612' right of centerline, 663' AGL/1750' MSL. Tree 234' from DER, 214' right of centerline, 24' AGL/1133' MSL. Light standard 64' from DER, 68' left of centerline, 39' AGL/1125' MSL. ASDE-X equipment 897' from DER, 413' right of centerline, 35' AGL/1141' MSL.

PHOENIX-MESA GATEWAY

TAKE-OFF MINIMUMS: **Rwys 30L, 30C, 30R**, CAT C,D,E 2000-2 or std. with a min. climb of 230' per NM to 3900.

DEPARTURE PROCEDURE: **Rwys 12L, 12C, 12R**, climb to 2500 via IWA R-122 then climbing right turn direct PXR VORTAC. **Rwys 30L, 30C, 30R**, climbing right turn to 4000 via IWA R-122 then climbing right turn direct PXR VORTAC.

PRESCOTT, AZ

ERNEST A. LOVE FIELD

TAKE-OFF MINIMUMS: **Rwy 12**, 2700-2 or std. with a min. climb of 460' per NM to 8100. **Rwy 21L**, 2700-2 or std. with a min. climb of 500' per NM to 8100. **Rwy 30**, 300-1 or std. with a min. climb of 300' per NM to 5200. **Rwy 3L, 21R, NA**.

DEPARTURE PROCEDURE: **Rwy 3R**, turn left heading 250° to intercept DRK R-305. **Rwy 12**, turn right direct DRK VORTAC. **Rwy 21L**, turn right heading 335° to intercept DRK R-305. **Rwy 30**, climb direct DRK VORTAC. **All aircraft** continue climb via DRK R-305 to 9000. Aircraft departing via DRK R-305 continue climb on course. All other aircraft turn right direct DRK VORTAC then climb on course.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FLD (PUC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7, NA** - per flight check **Rwy 32**, std. w/ min. climb of 425' per NM to 7000, or 3400-3 for climb in visual conditions. **Rwy 36**, std. w/ min. climb of 400' per NM to 7200, or 3400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 126° CW to 193°, thence... **Rwy 18**, climb on a heading between 192° CCW to 125°, thence... **Rwy 25**, climb on a heading between 176° CCW to 124°, thence... **Rwy 32**, climb to 7000 then climbing left turn on a heading between 175° CCW to 145°, thence... **Rwy 36**, climb to 6400 then climbing right turn on a heading between 141° CW to 184°, maintain 210K until completion of turn, thence... continue climb to assigned altitude for direction of flight. **Rwys 32, 36**, for climb in visual conditions cross Carbon County Rgnl / Buck Davis Field at or above 9200 before proceeding on course.

NOTE: **Rwy 14**, multiple trees beginning 121' from DER, 3' left of centerline, up to 40' AGL/5839' MSL. **Rwy 25**, trees 515' from DER, 535' right of centerline, up to 40' AGL/5879' MSL. **Rwy 32**, trees 9544' from DER, 1644' left of centerline, up to 40' AGL/6900' MSL. Trees 11332' from DER, 74' right of centerline, up to 40' AGL/6800' MSL. **Rwy 36**, poles 2599' from DER, 615' left of centerline, 40' AGL/6079' MSL. Poles 2715' from DER, 668' right of centerline, 59' AGL/6098' MSL.

PROVO, UT

PROVO MUNI

DEPARTURE PROCEDURE: Use PROVO DEPARTURE.

RENO, NV

RENO/STEAD (RTS)

AMDT 3A 09183 (FAA)

TAKE-OFF MINIMUMS: CAT A,B only, CAT C,D NA. **Rwys 8,14**, 1300-2 or std. with a min. climb of 400' per NM to 6500. **Rwy 26**, 1900-2 or std. with a min. climb of 410' per NM to 7200. **Rwy 32**, 2300-2 or std. with a min. climb of 420' per NM to 7200.

DEPARTURE PROCEDURE: **Rwys 8,32**, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC. **Rwy 14**, left turn climb direct FMG VORTAC. **Rwy 26**, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC. **All aircraft** climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CW R-170 at or above 10000; R-171 CW R-195 at or above 10500; R-196 CW R-259 at or above 12000.

RENO, NV (CON'T)

RENO/TAHOE INTL (RNO)

AMDT 4 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA-terrain. **Rwy 16L**, std. w/ min. climb of 730' per NM to 8000, or 600-1½ w/ min. climb of 480' per NM to 8000, or 2700-3 for climb in visual conditions. **Rwy 16R**, std. w/ the following minimum climb requirements: 210 knots or less, 385' per NM to 8000; more than 210 knots, 420' per NM to 8900, or 2700-3 for climb in visual conditions. Resume normal speed after passing FMG VORTAC. **Rwy 25**, std. w/ min. climb of 470' per NM to 7800, or 2700-3 for climb in visual conditions. **Rwy 34L**, std. w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions. **Rwy 34R**, std. w/ min. climb of 480' per NM to 7000, or 500-1½ w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 16L/R**, climb heading 164° to 6600 then climbing left turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwy 25**, climb heading 254° to 5000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwys 34L/R**, climb heading 344° to 7000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence...

... **All aircraft**: continue climb in FMG VORTAC holding pattern (northeast, left turn, 221° inbound) to cross FMG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 16L**, multiple poles, trees, bushes and terrain beginning 618' from departure end of runway, 133' left of centerline, up to 20' AGL/4961' MSL. **Rwy 16R**, multiple trees 2784' from departure end of runway, 171' right of centerline, up to 20' AGL/4510' MSL. Multiple trees and terrain beginning 746' from departure end of runway, 380' left of centerline, up to 20' AGL/4703' MSL. **Rwy 25**, multiple trees and poles beginning 829' from departure end of runway, 201' right of centerline, up to 103' AGL/4523' MSL. Building 6023' from departure end of runway, 456' right of centerline, 152' AGL/4608' MSL. Fence 222' from departure end of runway, 270' right of centerline, up to 5' AGL/4415' MSL. Multiple trees and poles beginning 500' from departure end of runway, 31' left of centerline, up to 20' AGL/4506' MSL. **Rwy 34L**, multiple trees and poles beginning 1229' from departure end of runway, 180' right of centerline, up to 20' AGL/4498' MSL. Multiple trees beginning 1193' from departure end of runway, 331' left of centerline, up to 20' AGL/4489' MSL. **Rwy 34R**, multiple trees and poles beginning 1067' from departure end of runway, 172' right of centerline, up to 20' AGL/4497' MSL. Multiple trees and poles beginning 1230' from departure end of runway, 350' left of centerline, up to 20' AGL/4498' MSL. Building 1.2 NM from departure end of runway, 1730' right of centerline, 363' AGL/4780' MSL.

RICHFIELD, UT

RICHFIELD MUNI (RIF)

AMDT 1 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, use RICHFIELD (RNAV) DEPARTURE. **Rwy 19**, use HAMET (RNAV) DEPARTURE.

ROOSEVELT, UT

ROOSEVELT MUNI

TAKE-OFF MINIMUMS: **Rwy 25**, 700-3 or std. with a min. climb of 300' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 7**, turn right.

Rwy 25, turn left. **All aircraft**, climb direct MTU VORTAC. Aircraft departing MTU VORTAC R-040 CWR-150, climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VORTAC; R-151 CW R-290 at or above 8000; R-291 CWR-039 at or above 10,000. Then climb on course.

SAFFORD, AZ

SAFFORD RGNL

TAKE-OFF MINIMUMS: IFR departure not authorized.

ST. GEORGE, UT

ST. GEORGE MUNI

TAKE-OFF MINIMUMS: **Rwy 34**, 1500-2 or std. with a min. climb of 325' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 16**, turn left. **Rwy 34**, turn right. Climb in OZN VOR/DME holding pattern (hold SE, right turns, 296° inbound) to depart OZN VOR/DME at or above MEA for direction of flight.

ST. JOHNS, AZ

ST. JOHNS INDUSTRIAL AIR PARK (SJN)

AMDT 1A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 21**, 400-2 or std. with a min. climb of 205' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 3, 32**, climbing right turn, **Rwys 14, 21**, climbing left turn. **All aircraft**, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW R-080 climb on course. All others continue climb in SJN VORTAC holding pattern (Hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.

NOTE: **Rwy 14**, 5790' tower 350' right abeam departure end of runway.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SALT LAKE CITY, UT

SALT LAKE CITY INTL (SLC)

AMDT 10 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 32**, NA, operational.

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 10000 via heading 161° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 17**, climb to 10000 via heading 166° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwys 34L, 34R**, climb to 9000 via heading 341° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 35**, climb to 9000 via heading 336° and OGD R-153 to OGD VORTAC before proceeding on course.

NOTE: **Rwy 16L**, vehicle 124' from DER, 14' right of centerline, 15' AGL/4239' MSL. Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL. Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL. **Rwy 17**, vehicles beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL. **Rwy 34R**, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL. **Rwy 35**, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

SOUTH VALLEY RGNL AIRPORT (U42)

AMDT 4A 09155 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 2400-3 or std. with a min. climb of 295' per NM to 7700. **Rwy 34**, std. with a min. climb of 353' per NM to 9500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing left turn to 9600 via heading 136° and V21 (TCH R-161 FFU R-341) to FFU VORTAC. Aircraft departing FFU R-156 CW R-263 and R-308 CW R-359 climb on course. All others continue climb in FFU VORTAC holding pattern (S, right turns, 008° inbound) to cross FFU VORTAC at or above: R-360 CW R-093 12400; R-094 CW R-138 10600; R-139 CW R-155 11300; R-264 CW R-307 11500. **Rwy 34**, climbing right turn to 9500 via heading 026° and V21 (TCH R-161) to TCH VORTAC. Aircraft departing TCH R-144 CW R-176 and R-217 CW R-355 climb on course. All others continue climb in TCH VORTAC holding pattern (NW, right turns, 116° inbound) to cross TCH VORTAC at or above: R-356 CW R-116 10700; R-117 CW R-143 11600; R-177 CW R-216 10100.

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

AMDT 7 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min climb of 440' per NM to 4000, or 3100-3 for climb in visual conditions. **Rwy 21**, std. w/ min. climb of 215' per NM to 4000, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 4000 via heading 220° and PXR VORTAC R-336 southeast bound to PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course. **Rwy 21**, climbing right turn to 4000 via heading 300° and PXR VORTAC R-336 northwest bound then left turn direct PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course.

...continue climb on course.

NOTE: **Rwy 3**, multiple light standards beginning 63' from departure end of runway, 445' left of centerline, up to 44' AGL/1554' MSL. Hoist on dike 878' from departure end of runway, 735' left of centerline, 51' AGL/1561' MSL. Dike beginning 1066' from departure end of runway, 316' left of centerline, 38' AGL/1548' MSL. Day marker on dike 1230' from departure end of runway, 5' left of centerline, 39' AGL/1549' MSL. Tree, 269' from departure end of runway, 490' left of centerline, 13' AGL/1523' MSL. Tree 51' from departure end of runway, 279' left of centerline, 6' AGL/1516' MSL. Tree 765' from departure end of runway, 115' left of centerline, 22' AGL/1532' MSL. Road beginning 647' from departure end of runway, 296' left of centerline, 19' AGL/1529' MSL. Tree 227' from departure end of runway, 97' left of centerline, 6' AGL/1516' MSL. Fence beginning 5' from departure end of runway, 338' right of centerline, 6' AGL/1511' MSL. Light standard, 1013' from departure end of runway, 430' right of centerline, 44' AGL/1552' MSL. **Rwy 21**, tree 1072' from departure end of runway, 426' right of centerline, 53' AGL/1497' MSL. Building 316' from departure end of runway, 537' right of centerline, 23' AGL/1467' MSL. Tree 2087' from departure end of runway, 418' left of centerline, 61' AGL/1505' MSL. Tree 1432' from departure end of runway, 438' right of centerline, 38' MSL/1482' MSL. Tree 2234' from departure end of runway, 559' left of centerline, 58' AGL/1502' MSL.

SEDONA, AZ

SEDONA (SEZ)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 21**, Use OATES RNAV DEPARTURE.

SHOW LOW, AZ

SHOW LOW RGNL

DEPARTURE PROCEDURE: **Rwys 3,6**, turn left.

Rwys 21,24, turn right. All aircraft climb via 345 bearing from SOW NDB to DEHOG INT then climb on course.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI

TAKE-OFF MINIMUMS: **Rwy 21**, 1000-2 or std. with a min. climb of 360' per NM to 8400.

DEPARTURE PROCEDURE: **Rwys 3, 11**, climbing left turn to 8400 via heading 360° before proceeding on course. **Rwys 21, 29**, climbing right turn to 8400 via 360° before proceeding on course.

TAYLOR, AZ

TAYLOR MUNI

TAKE-OFF MINIMUMS: **Rwy 21**, 300-1 or std. with a min. climb of 248' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 3/21**, climb on runway heading to 8000 before turning on course.

TONOPAH, NV

TONOPAH

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA. **Rwys 15, 33**, 2600-2 or std. with a min. climb of 260' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 15**, turn left. **Rwy 33**, turn right. Climb direct TPH VORTAC. Continue climb in holding pattern (NE, right turns, 246° inbound) to depart TPH VORTAC at or above 8000. Climb on course to MEA or assigned altitude.

TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 490' per NM to 11000. **Rwy 35**, std. with a min. climb of 360' per NM to 9000.

DEPARTURE PROCEDURE: Use STACO DEPARTURE.

NOTE: **Rwy 17**, tree 794' from departure end of runway, 277' right of centerline, 35' AGL/4380' MSL. Tree 967' from departure end of runway, 432' right of centerline, 35' AGL/4394' MSL. Tree 1023' from departure end of runway, 313' right of centerline, 35' AGL/4395' MSL.

TUCSON, AZ

MARANA RGNL

TAKE-OFF MINIMUMS: **Rwys 3, 12**, N/A-Obstacles DEPARTURE PROCEDURE: **Rwy 21**, climb to 6500 via heading 360° and TUS R-308 to TOTEC Int/TUS 57 DME, then as filed. **Rwy 30**, climb to 6500 via heading 303° intercept TUS R-308 above 3500, to TOTEC INT/TUS 57 DME, then as filed.

NOTE: **Rwy 21**, road 192' from departure end of runway, 527' left of centerline 15' AGL/2034' MSL.

RYAN FIELD

DEPARTURE PROCEDURE: **Rwy 6R**, turn right; **Rwy 24L**, turn left direct to Ryan NDB. Continue climb in holding pattern (W, right turn 090° inbound) to 5000 before proceeding on course.

TUCSON, AZ (CON'T)

TUCSON INTL (TUS)

AMDT 4A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1¾ or std. w/ min. climb of 228' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 3, 29L, 29R**, climbing right turn direct to TUS VORTAC. **Rwys 11L, 11R** climb via runway heading to 4000 then climbing left turn direct TUS VORTAC. **Rwy 21**, climbing left turn direct to TUS VORTAC. **All aircraft** continue climbing in holding pattern (NW, right turns, 128° inbound) to depart TUS VORTAC at or above 9000.

NOTE: **Rwy 3**, tower 9215' from departure end of runway, 1689' left of centerline, 246' AGL/2831' MSL.

VERNAL, UT

VERNAL RGNL

TAKE-OFF MINIMUMS: **Rwy 16**, 1500-2 or std with a min. climb of 250' per NM to 7000'. **Rwy 25**, 1500-2 or std. with a min. climb of 390' per NM to 7000. **Rwy 34**, 1600-2 or std. with a min. climb of 330' per NM to 7000'.

DEPARTURE PROCEDURE: **Rwys 7, 34**, turn right. **Rwys 16, 25**, turn left. **All aircraft** climb direct VEL. Aircraft departing V391 S-bound climb on course. All others climb in holding pattern (SE, right turns, 322° inbound). Aircraft SW-bound V208 depart VEL at or above 8400', all others depart VEL at or above 9500'. Continue climb on course to MEA or assigned altitude.

WENDOVER, UT

WENDOVER

TAKE-OFF MINIMUMS: **Rwy 26**, standard with a min. climb of 300' per NM to 7000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwys 8, 12, 26**, climbing left turn direct BVL VORTAC. Aircraft departing BVL VORTAC R-330 CW R-150 climb on course. All others continue climb in BVL VORTAC holding pattern (Hold NE right turns, 247° inbound) to cross at or above 7400, then climb on course.

WILLCOX, AZ

COCHISE COUNTY

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. **All aircraft** climb direct CIE VORTAC.

WINDOW ROCK, AZ

WINDOW ROCK

TAKE-OFF MINIMUMS: **Rwy 2**, 700-2 or std. with a min. climb of 500' per NM to 8000. **Rwy 20**, 600-2 or std. with a min. climb of 260' per NM to 8200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right.

Rwy 20, turn left direct to GUP VORTAC before proceeding on course.

NOTE: **Rwy 2**, terrain 3832' from departure end of runway, 1025' right of centerline, 6926' MSL. Poles 5220' from departure end of runway, 245' right of centerline, 180' AGL/6922' MSL. Tower 7067' from departure end of runway, 3072' left of centerline, 71' AGL/7316' MSL. Terrain 7449' from departure end of runway, 1612' left of centerline, 6991' MSL. Terrain 8776' from departure end of runway, 1851' left of centerline, 7109' MSL. Tree 9665' from departure end of runway, 1326' right of centerline, 7340' MSL. Tree 11326' from departure end of runway, 355' left of centerline, 7351' MSL. **Rwy 20**, trees 1018' from departure end of runway, 620' left of centerline, 30' AGL/6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 2500-2 or std. with a min. climb of 450' per NM to 6800. **Rwys 14,20**, 3200-2 or std. with a min. climb of 520' per NM to 7500.

DEPARTURE PROCEDURE: **Rwys 14,20**, turn right.

Rwy 2, turn left. **Rwy 32**, climb straight ahead. All aircraft climb via INA R-326 to 6700 or above within 12 NM, then climbing left turn return to INA VOR/DME via R-326. Continue climb in INA VOR/DME holding pattern (hold NW, right turns, 146° inbound) to depart INA VOR/DME at or above 11000. Southbound aircraft continue via INA R-146 direct Fesko Int. Northbound aircraft continue via INA R-326 and SDO R-144 direct SDO VORTAC.

YUMA MCAS/ YUMA INTL(KNYL)

YUMA, AZ 09323

Diverse departures not auth between 360° CW 055° from 25 NM to 30 NM.

Rwy 3L: Cross DER at or above 35' AGL/228' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 3R: Cross DER at or above 35' AGL/242' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 21L: Cross DER at or above 35' AGL/223' MSL.

Diverse departures auth.

Rwy 21R: Cross DER at or above 35' AGL/227' MSL.

Diverse departures auth.

Rwy 8: Cross DER at or above 35' AGL/231' MSL.

Diverse departures auth. Fr 069° CW 123°, std with minimum climb of 230'/NM to 3500'.

Rwy 26: Cross DER at or above 35' AGL/230' MSL.

Diverse departures auth.

Rwy 17: Cross DER at or above 35' AGL/217' MSL.

Diverse departures auth. Fr 068° CW 109°, std with minimum climb of 220'/NM to 3500'.

Rwy 35: Cross DER at or above 35' AGL/231' MSL.

Diverse departures auth.

AIRPORT DIAGRAM

BULLHEAD CITY/ LAUGHLIN/ BULLHEAD INTL (IFP)
BULLHEAD CITY, ARIZONA

AWOS-3
119.825
BULLHEAD TOWER ★
123.9
GND CON
118.25

FIELD
ELEV
701

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

D

35°10.0'N

ELEV
625

91

A1

1.0% UP

163.8°

FIRE
STATION

TERMINAL

RWY 16-34
S75, D200, DT400

A2

A3

A3

△ 897

35°09.5'N



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

7500 X 150

A4

A5

A5

CONTROL
TOWER

35°09.0'N

A6

343.8°

34

A7

A8

ELEV
699

114°34.0'W

114°33.5'W

114°33.0'W

APP CRS
164°

Rwy Idg
TDZE
Apt Elev

7500
688
701

BULLHEAD CITY/LAUGHLIN/BULLHEAD INTL (IFP)

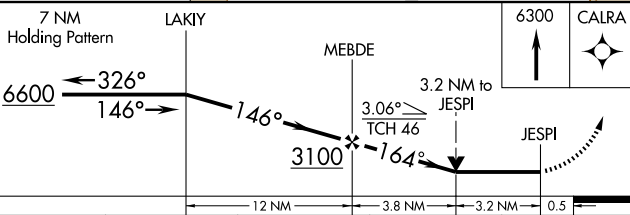
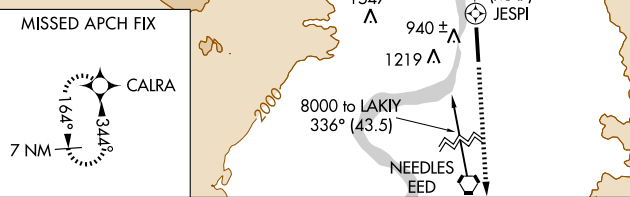
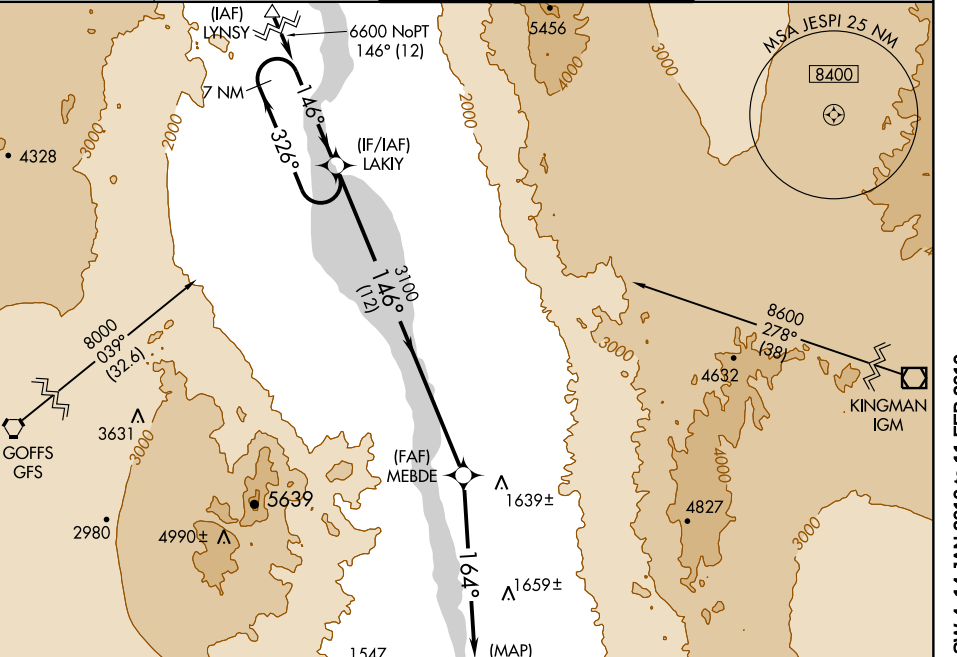
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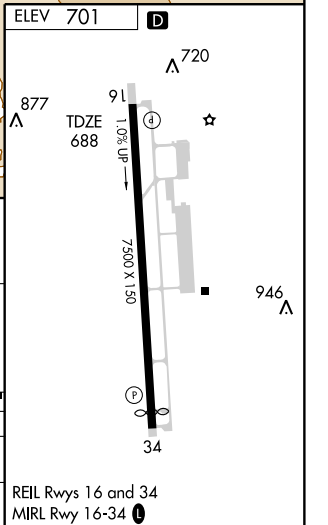
DME/DME RNP-0.3 NA. Procedure NA at night.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Needles
altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climb to 6300 direct CALRA and hold,
continue climb-in-hold to 6300.

AWOS-3 119.825	LOS ANGELES CENTER 134.65 360.65	LAUGHLIN/BULLHEAD TOWER★ 123.9 (CTAF) 0	GND CON 118.25
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CATEGORY	A	B	C	D
RNAV MDA	1840-1¼ 1152 (1200-1¼)	1840-1½ 1152 (1200-1½)	1840-3 1152 (1200-3)	
CIRCLING	1840-1¼ 1139 (1200-1¼)	1840-1½ 1139 (1200-1½)	1840-3 1139 (1200-3)	



REIL Rwy 16 and 34
MRL Rwy 16-34 0

WAAS CH 82602 W34A	APP CRS 344°	Rwy Idg 7000 TDZE 699 Apt Elev 701
--	------------------------	---

RNAV (GPS) RWY 34

BULLHEAD CITY/LAUGHLIN/BULLHEAD INTL (IFP)

T Circling to Rwy 16 NA at night.
A DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Needles altimeter setting and increase LPV DA 94 feet and all MDA 100 feet.
VDP NA when using Needles altimeter setting.

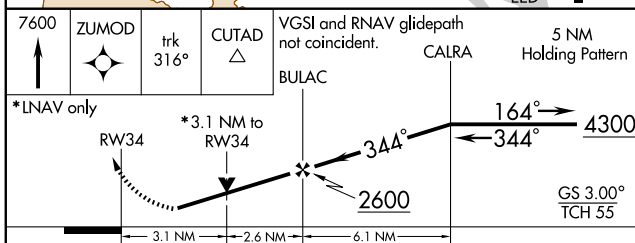
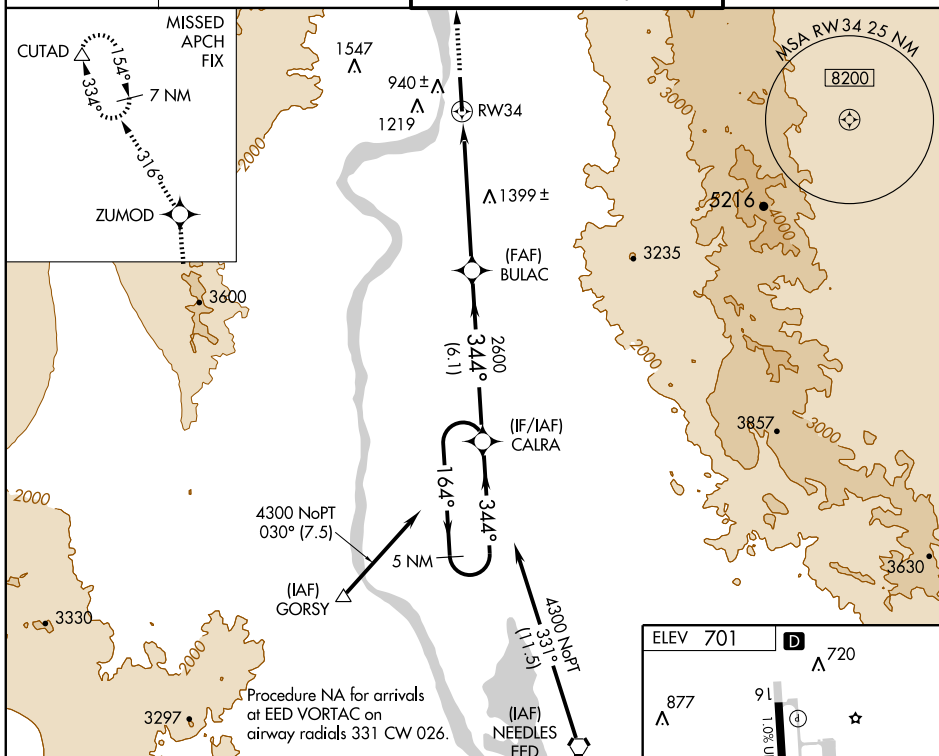
MISSED APPROACH: Climb to 7600 direct ZUMOD and via track 316° to CUTAD and hold, continue climb-in-hold to 7600.

AWOS-3
119.825

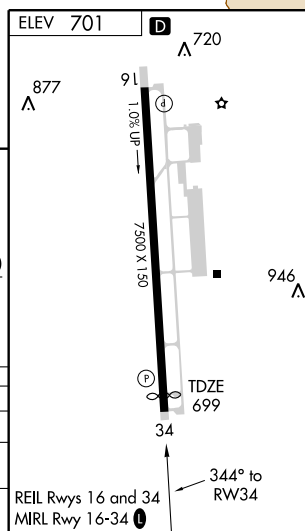
LOS ANGELES CENTER
134.65 360.65

LAUGHLIN/BULLHEAD TOWER★
123.9 (CTAF) **L**

GND CON
118.25



CATEGORY	A	B	C	D
LPV DA	1344-2½ 645 (700-2½)			
LNAV MDA	1740-1¼ 1041 (1100-1¼)	1740-1½ 1041 (1100-1½)	1740-3	1041 (1100-3)
CIRCLING	1740-1¼ 1039 (1100-1¼)	1740-1½ 1039 (1100-1½)	1740-3 1039 (1100-3)	1800-3 1099 (1100-3)



VORTAC EED

115.2

Chan 99

APP CRS

335°

Rwy Idg

7000

TDZE

699

Apt Elev

701

BULLHEAD CITY/LAUGHLIN/BULLHEAD INTL (IFP)

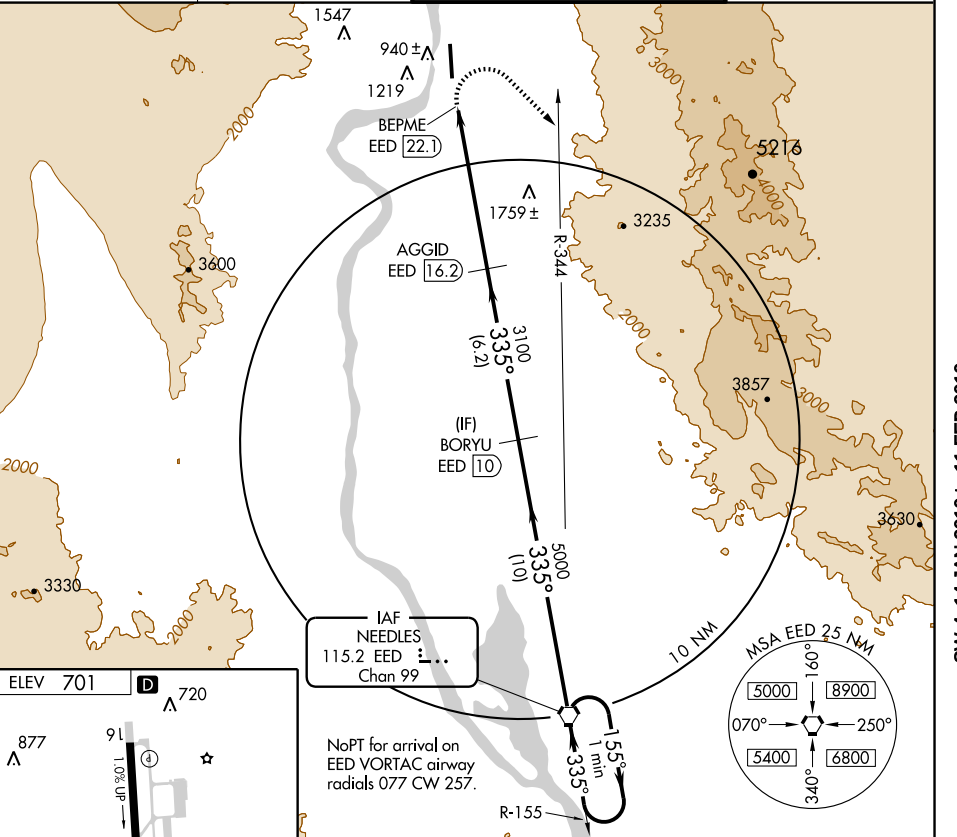
⚠

⚠

Circling to Rwy 16 NA at night. Visibility reduction by helicopters NA. When local altimeter setting not received, use Needles altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climbing right turn to 6000 via heading 120° and EED VORTAC R-344 to EED VORTAC and hold.

AWOS-3 119.825	LOS ANGELES CENTER 134.65 360.65	LAUGHLIN/BULLHEAD TOWER ★ 123.9 (CTAF) 0	GND CON 118.25
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6000

120°

EED R-344

EED 115.2

BORYU EED 10

VORTAC

One Minute Holding Pattern

335°

155°

6000

335°

335°

3100

5000

3.21°

TCH 45

BEPME EED 22.1

AGGID EED 16.2

1 NM

5.9 NM

6.2 NM

10 NM

335° 6.9 NM from FAF

34

335°

335°

155°

6000

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
S-34	2840-1¼ 2141 (2200-1¼)	2840-1½ 2141 (2200-1½)	2840-3	2141 (2200-3)
CIRCLING	2840-1¼ 2139 (2200-1¼)	2840-1½ 2139 (2200-1½)	2840-3	2139 (2200-3)

SW-4, 14 JAN 2010 to 11 FEB 2010

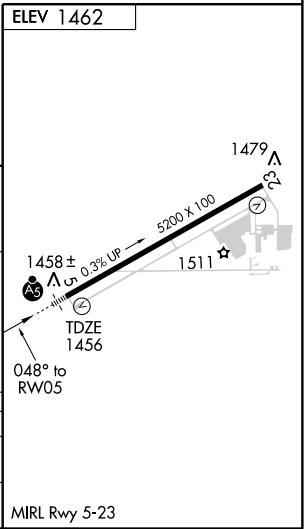
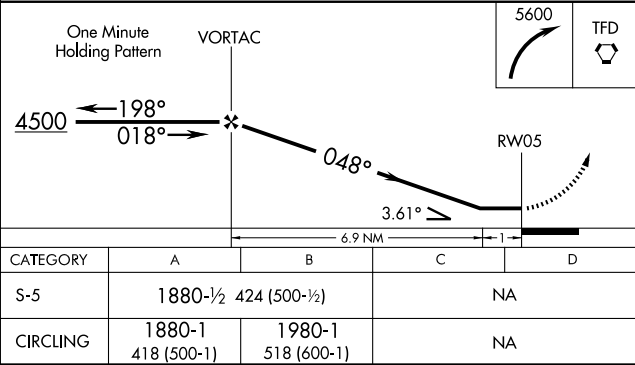
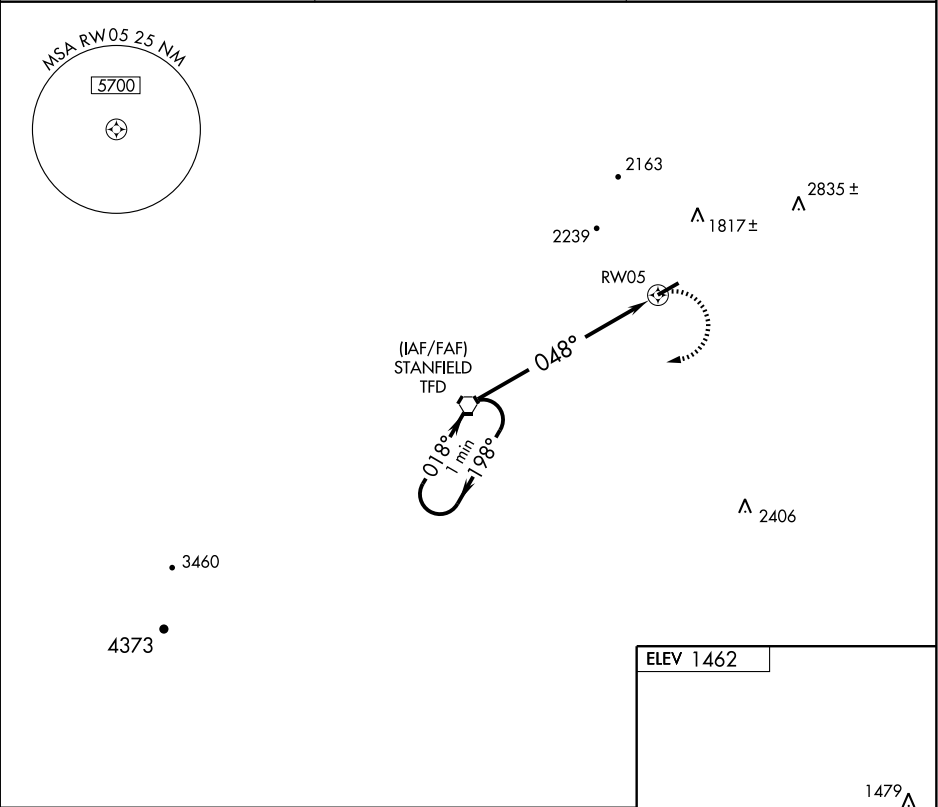
APP CRS 048°	Rwy Idg TDZE Apt Elev	5200 1456 1462
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GPS RWY 5

CASA GRANDE MUNI (CGZ)

  NA	MALSR 	MISSED APPROACH: Climbing right turn to 5600 direct TFD VORTAC and hold.
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AWOS-3 132.175	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.7 (CTAF) 0
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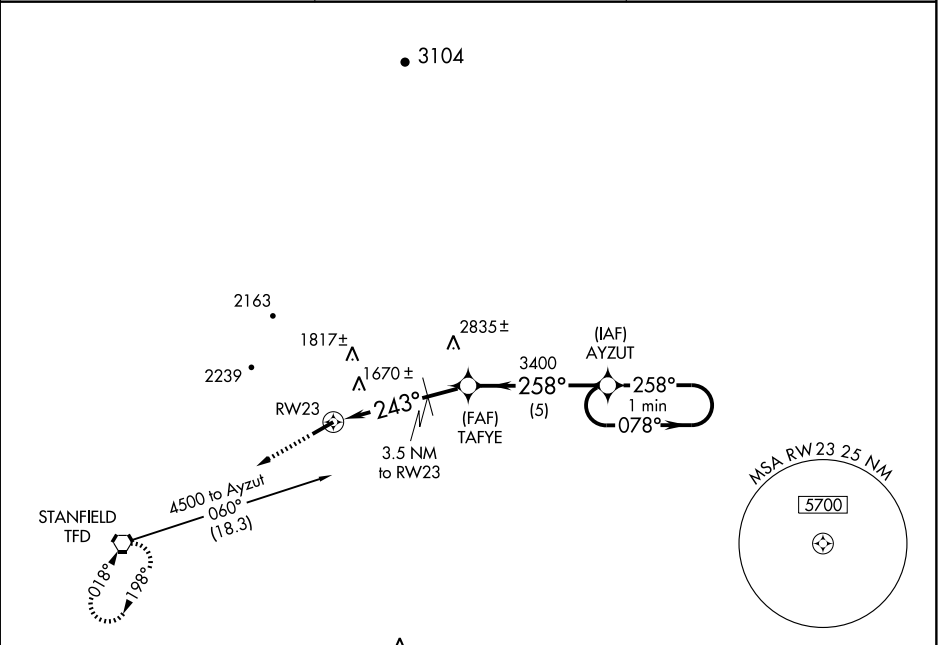


APP CRS 243°	Rwy Idg TDZE Apt Elev	5200 1462 1462
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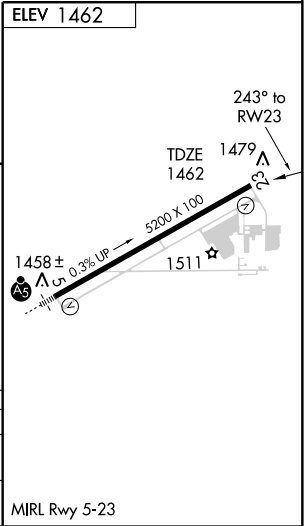
GPS RWY 23
CASA GRANDE MUNI (CGZ)

 	MISSED APPROACH: Climb to 5600 direct TFD VORTAC and hold.
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AWOS-3 132.175	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.7 (CTAF) 0
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ELEV 1462				
CATEGORY	A		B	D
S-23	1840-1 378 (400-1)		NA	
CIRCLING	1840-1 378 (400-1)		1980-1 518 (600-1)	



▼

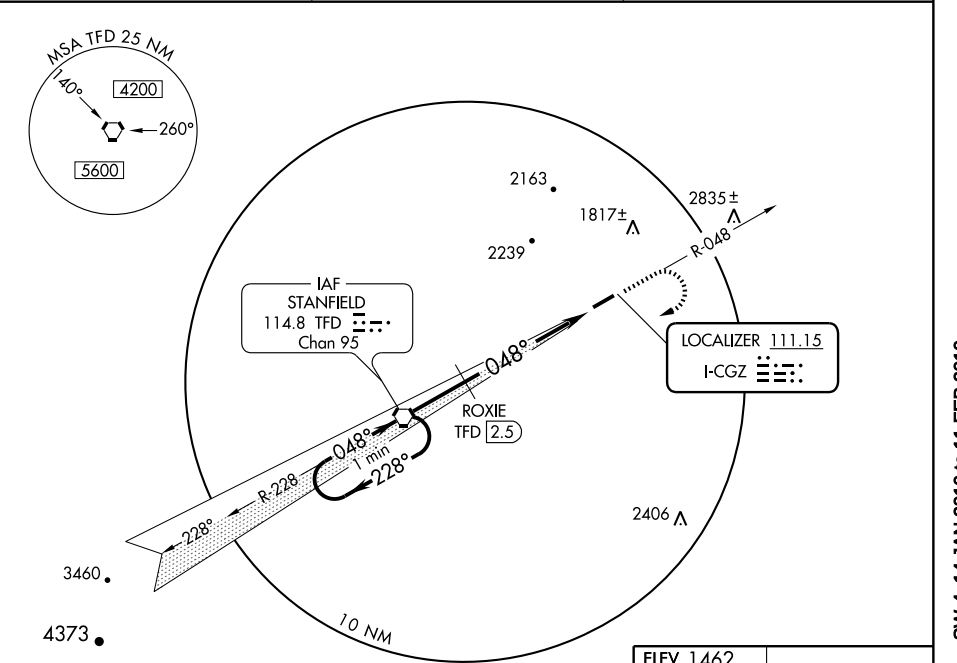
NA

DME from TFD VORTAC; simultaneous reception of I-CGZ and TFD DME required.

MALSR

MISSED APPROACH: Climb to 2100 via TFD VORTAC R-048 then climbing right turn to 3500 direct to TFD VORTAC and hold.

AWOS-3 132.175	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.7 (CTAF) 0
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ELEV 1462

One Minute Holding Pattern

VORTAC

ROXIE TFD 2.5

3500

228°

048°

3200

3000

2.5 NM

5 NM

0.3

*LOC only

2100

3500

TFD R-048

TFD 7.5

1479

1458±

TDZE 1456

048° 5.3 NM from FAF

5200 X 100

1511

CATEGORY	A	B	C	D
S-ILS 5	1741-½	285 (300-½)		NA
S-LOC 5	1840-½	384 (400-½)		NA
CIRCLING	1900-1 438 (500-1)	1920-1 458 (500-1)		NA

Knots

60

90

120

150

180

Min:Sec

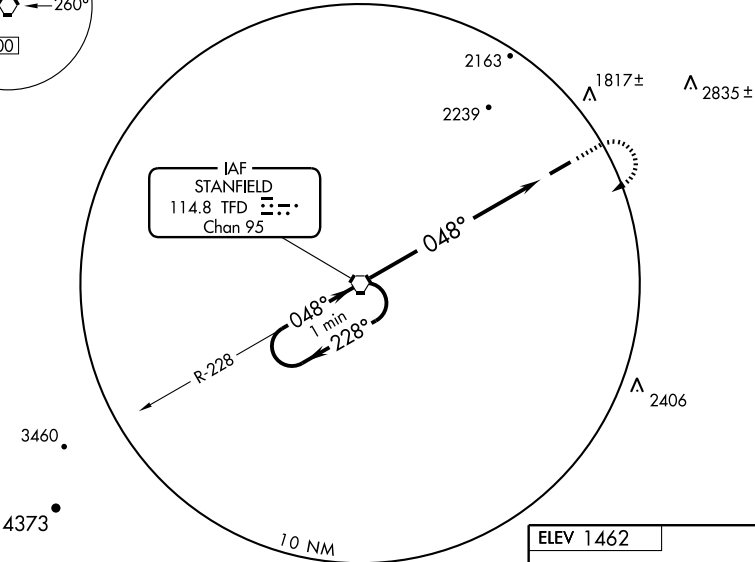
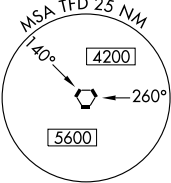
MIRL Rwy 5-23

VORTAC TFD	APP CRS	Rwy Idg	5200
114.8	048°	TDZE	1456
Chan 95		Apt Elev	1462

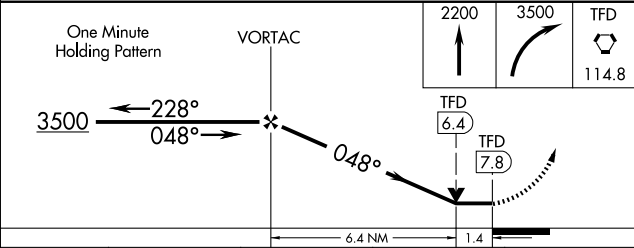
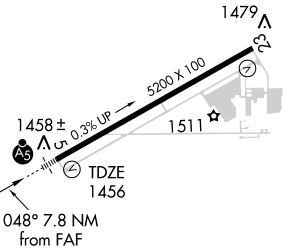
VOR RWY 5
CASA GRANDE MUNI (CGZ)

	MALSR 	MISSED APPROACH: Climb to 2200, then climbing right turn to 3500 direct TFD VORTAC and hold.
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AWOS-3 132.175	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.7 (CTAF) 0
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ELEV 1462



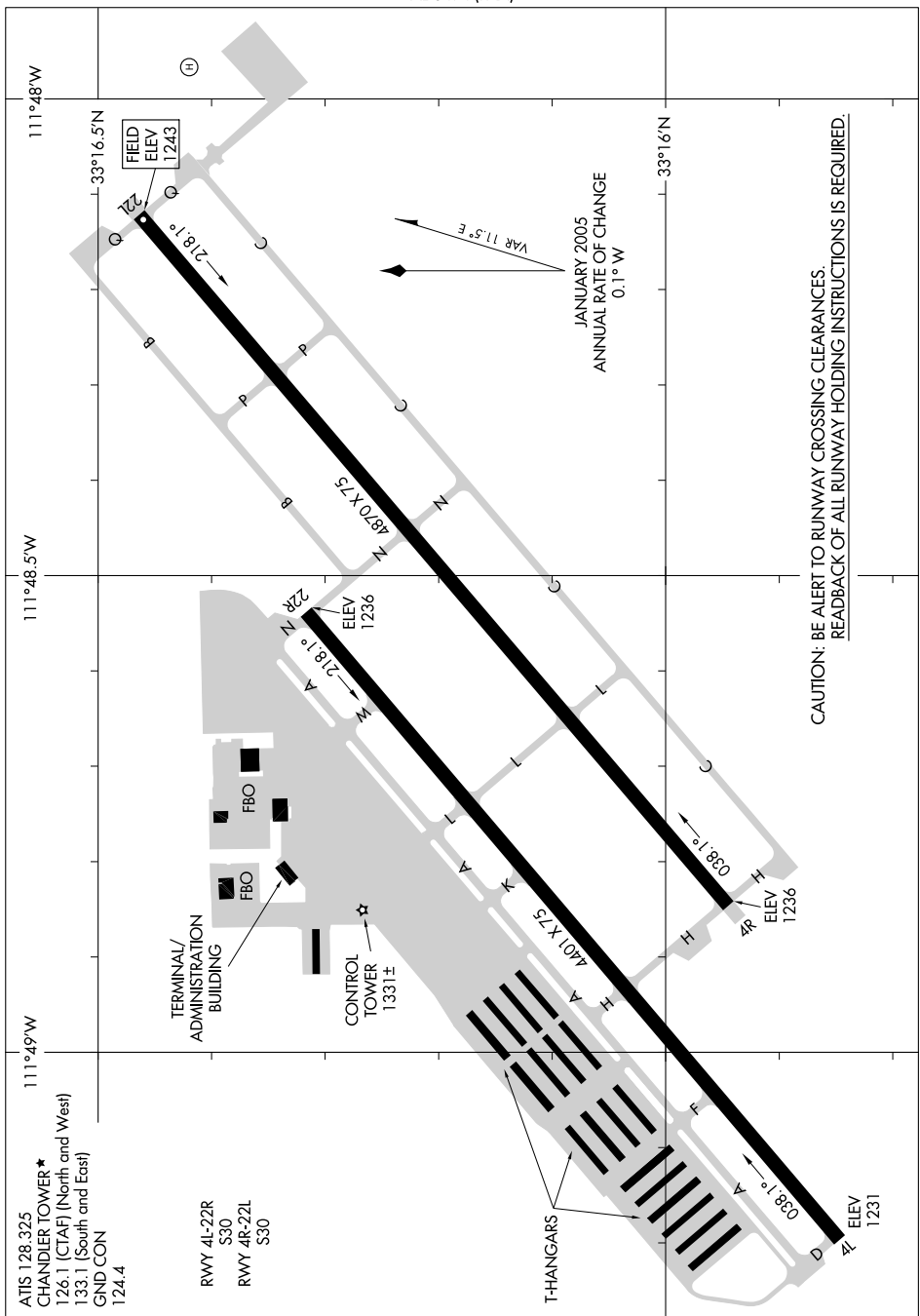
CATEGORY	A	B	C	D
S-5	1960-½	504 (500-½)	NA	
CIRCLING	1960-1	498 (500-1)	NA	

MIRL Rwy 5-23	FAF to MAP 7.8 NM				
Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

AIRPORT DIAGRAM

AL-6494 (FAA)

CHANDLER TOWER (CHD)
CHANDLER, ARIZONA

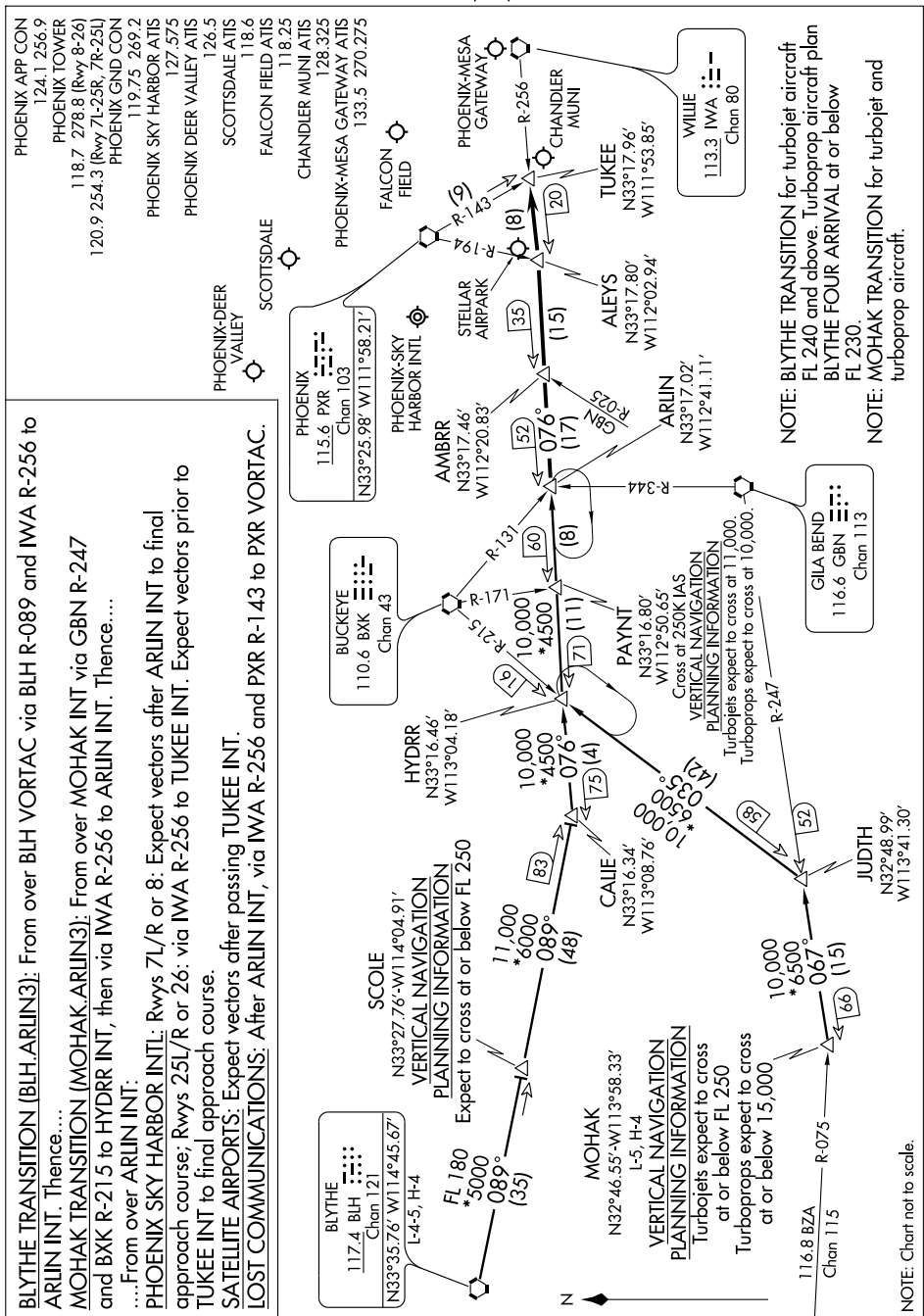


SW-4, 14 JAN 2010 to 11 FEB 2010

ARLIN THREE ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA



BLYTHE FOUR ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA

...
BLYTHE TRANSITION (BLH,BLH4): From over BLH VORTAC via BLH R-082 to SALOM INT, then via GBN R-285 and IWA R-256 to ARLIN INT. Thence
... From over ARLIN INT:

PHOENIX SKY HARBOR INTL: Rwy's 7L/R or 8: Expect radar vectors after passing ARLIN INT to final approach course; Rwy's 25L/R or 26: via IWA R-256 to TUKEE INT, expect radar vectors prior to TUKEE INT to final approach course.

ALL SATELLITE AIRPORTS: Expect radar vectors after passing TUKEE INT.

LOST COMMUNICATIONS: After ARLIN INT, via IWA R-256 and PXR R-143 to PXR VORTAC.

CHINA BULL MARKET

PHOENIX 128.325
PHOENIX-MESA GATEWAY ATIS 133.5 270.275
PHOENIX 115.6 PXR 133.5 270.275

BUCKEYE

BYTHE 117.4 BIL 117.4
Chen 121

SALOM N33°30.97' W113°53.33

BUCKEYE
110.6 BXK ---
Chan 43

PHOENIX
15.6 PXR
Chan 103

Z

BARD
16.8 BZA :
Chan 115

GILA BEND
116.6 GBN
Chan 113

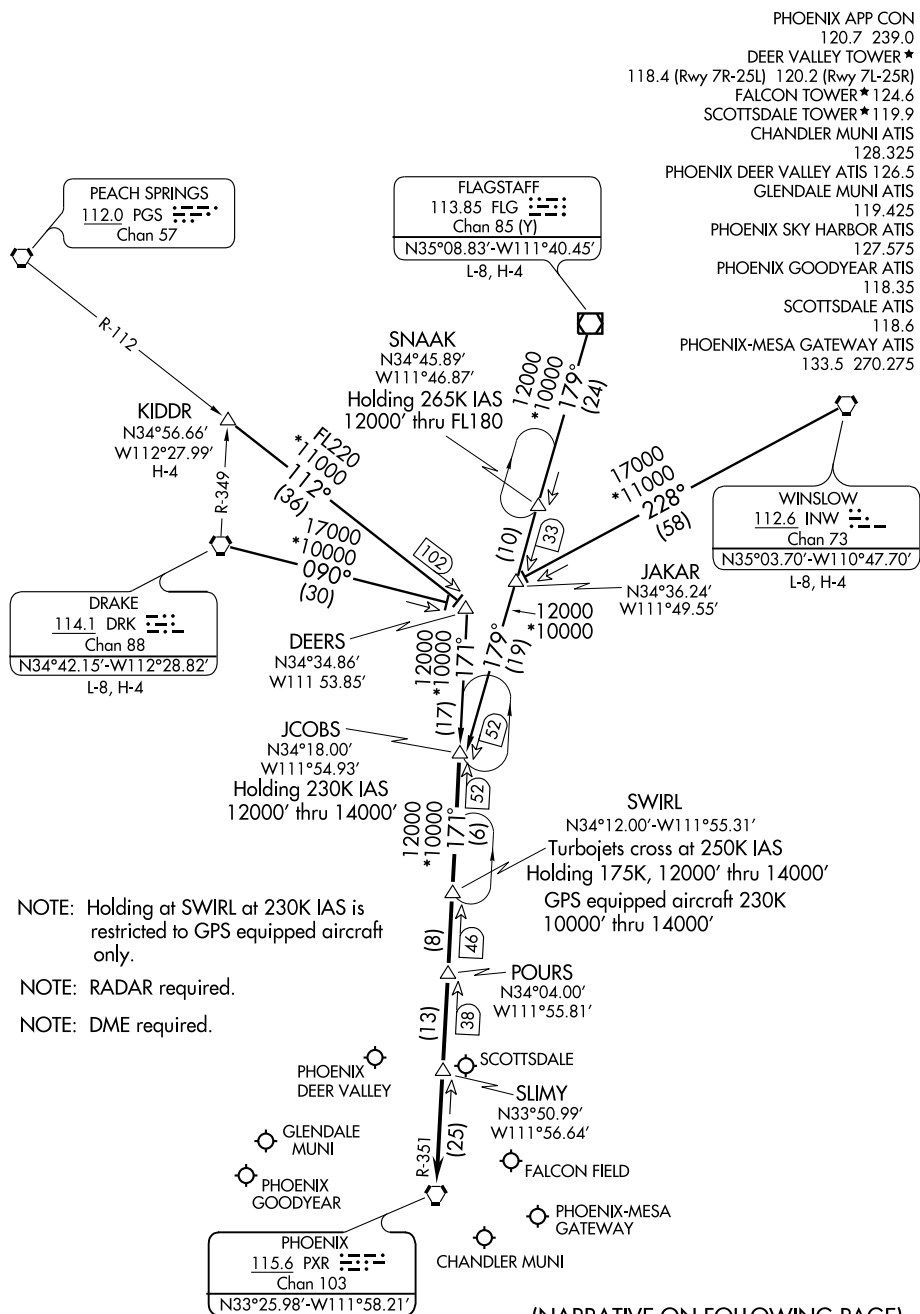
Turbojets: Expect to cross at 11,000
Turboprops: Expect to cross at 10,000

NOTE: Blythe Arrival for aircraft FL 230 or below.

SW-4. 14 JAN 2010 to 11 FEB 2010

JCBS TWO ARRIVAL

SCOTTSDALE, ARIZONA



(NARRATIVE ON FOLLOWING PAGE)

JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

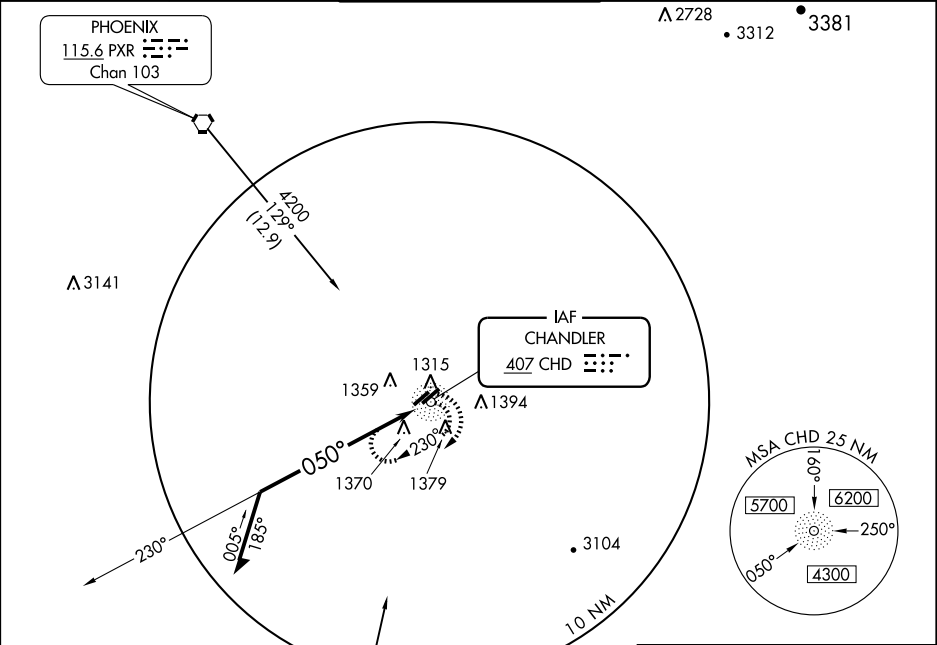
LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

NDB RWY 4R
CHANDLER MUNI (CHD)

NDB	CHD	APP CRS	Rwy Idg	4870
407		050°	TDZE	1239
			Apt Elev	1243

▼ ▲ NA	When VGSI inoperative, circling Rwy 4L NA at night.	MISSED APPROACH: Climbing right turn to 3000 in CHD holding pattern.
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ATIS 128.325	PHOENIX APP CON 123.7 363.0	CHANDLER TOWER* 126.1 (CTAF) 133.1 (North and West) (South and East)	GND CON 124.4	UNICOM 122.95
-----------------	--------------------------------	--	------------------	------------------



Remain within 10 NM				
*NDB				
2800				
230°				
050°				
* Maintain 3400 or above until established outbound for procedure turn.				
CATEGORY	A	B	C	D
S-4R	1780-1	541 (600-1)	1780-1½ 541 (600-1½)	NA
CIRCLING	1780-1	538 (600-1)	1780-1½ 538 (600-1½)	NA

ELEV 1243

TWR 1331±

1281

4401 X 75

4810 X 75

1299

TDZE 1239

1269±

1265

050° to NDB

REIL Rwy 4R and 22L

MIRL Rwy 4L-22R and 4R-22L

ELEV 1243

TWR 1331 ± ☆

VORTAC 1281

TDZE 1240

REIL Rwy 4R and 22L

MRL Rwy 4L-22R and 4R-22L

039° to RWY04R

1269 ±

1265

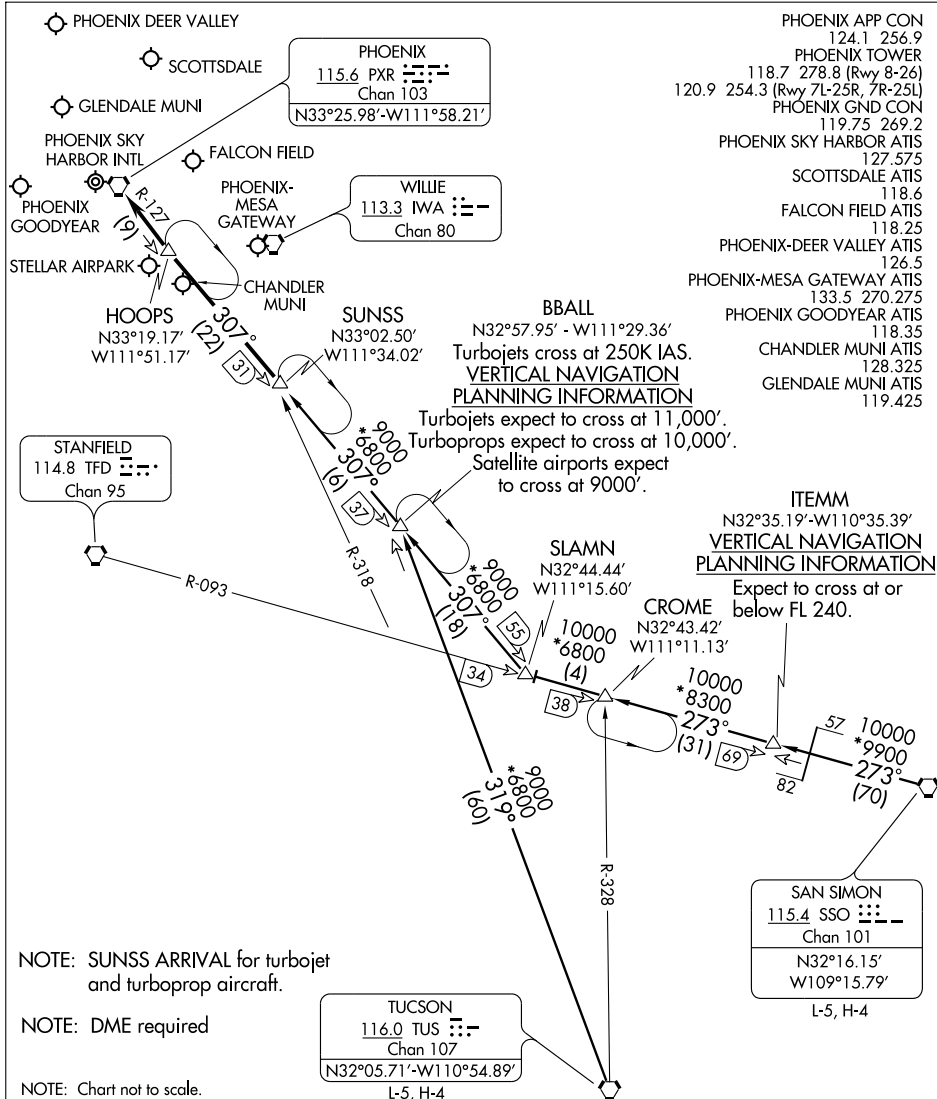
4401 X 75

4870 X 75

1299

22L

(H)



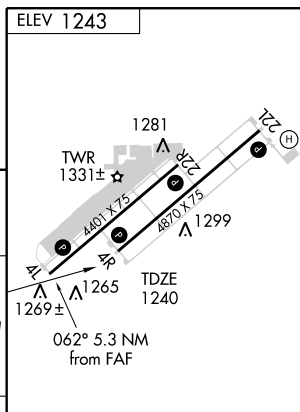
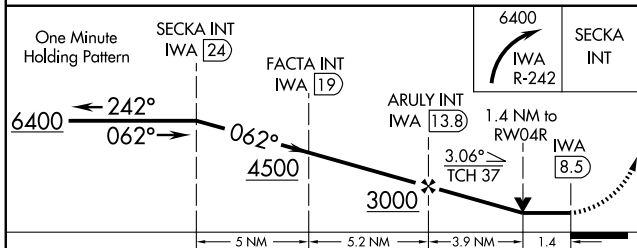
SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

MISSED APPROACH: Climbing right turn to 6400 via IWA R-242 to SECKA Int and hold.

MISSED APPROACH: Climbing right turn to 6400 via IWA R-242 to SECKA Int and hold.

UNICOM
122.95

SW-4. 14 JAN 2010 to 11 FEB 2010

CATEGORY	A	B	C	D
S-4R	1680-1	440 (500-1)	1680-1¼ 440 (500-1¼)	NA
CIRCLING	1720-1	477 (500-1)	1720-1½ 477 (500-1½)	NA

REIL Rwy 4R and 22L **L**
MIRL Rwy 4L-22R and 4R-22L **L**

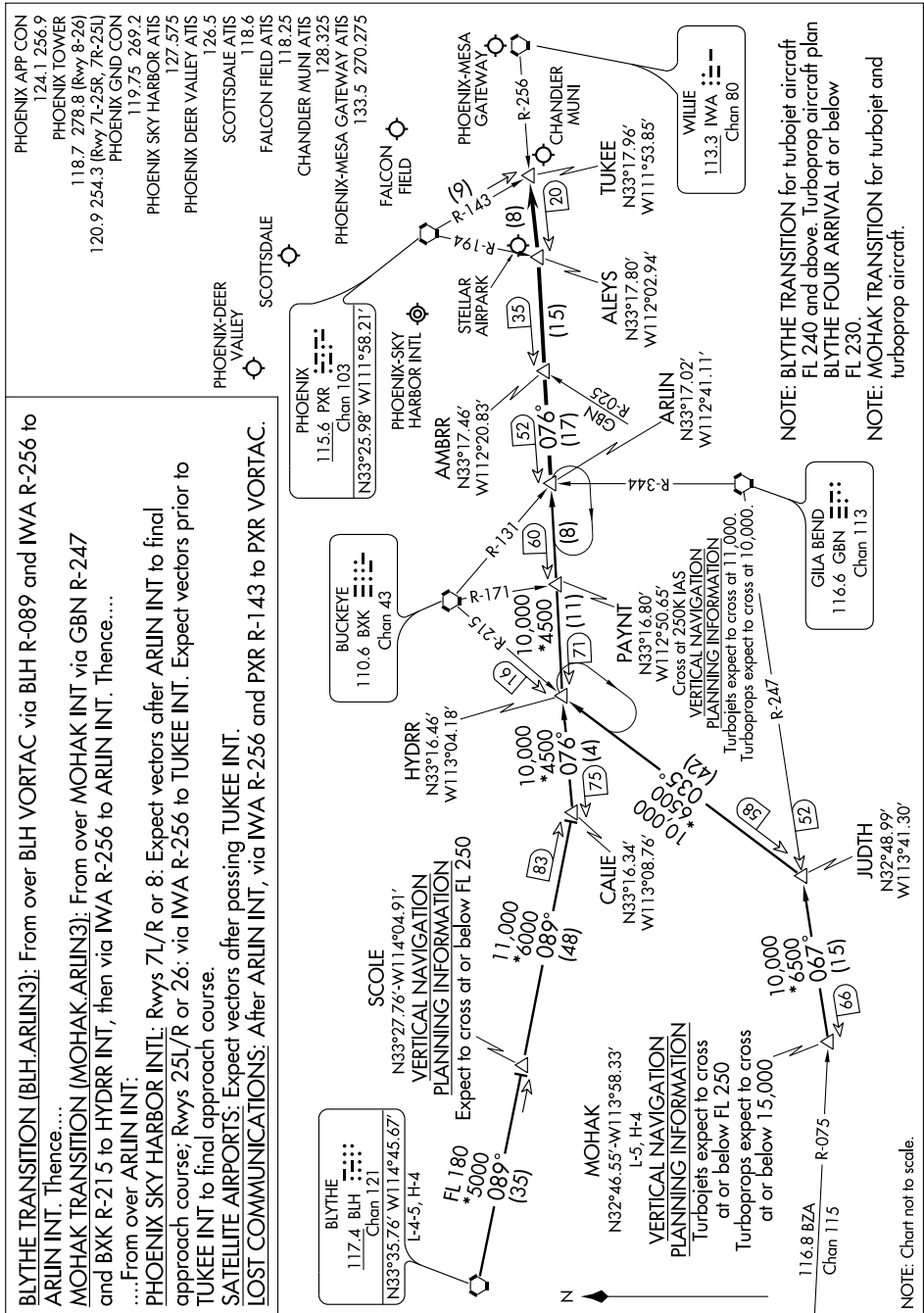
FAF to MAP 5.3 NM

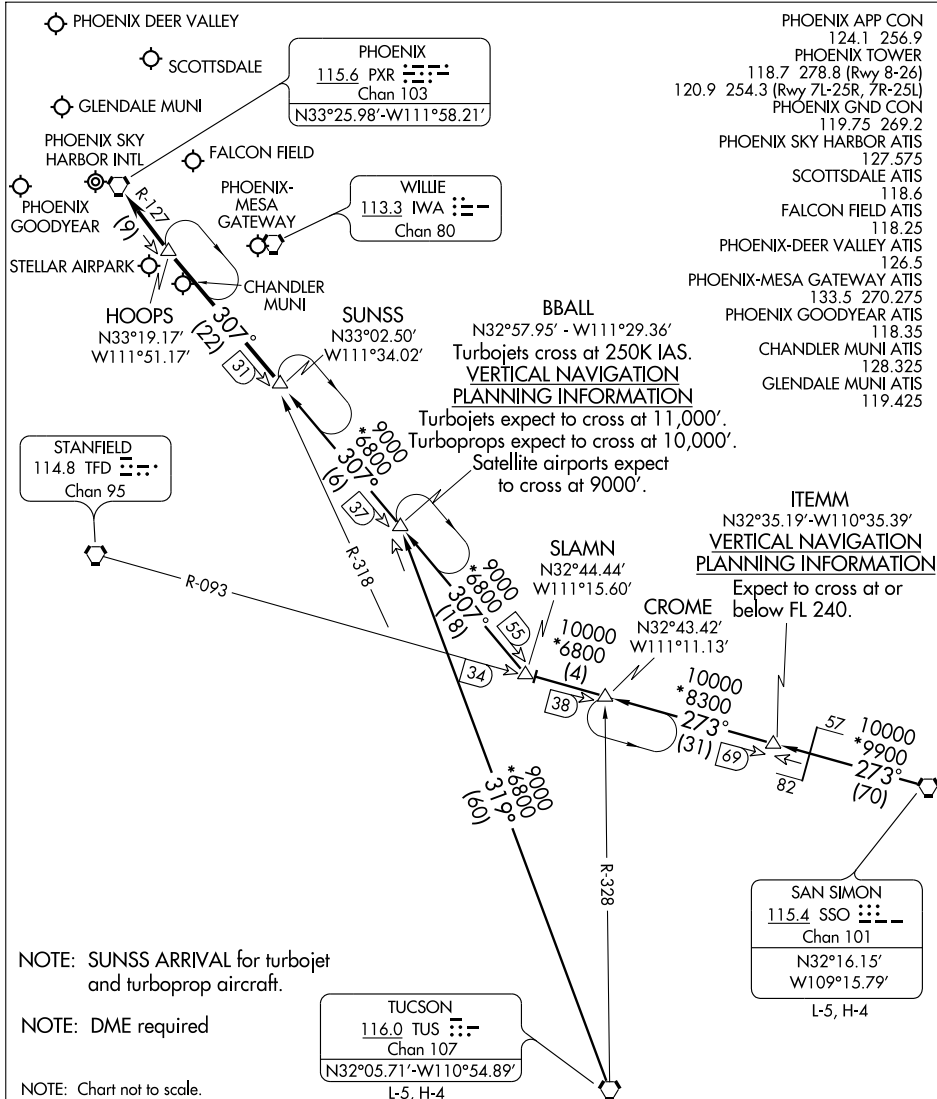
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

ARLIN THREE ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA





SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

▼

▲ NA

Use Phoenix Sky Harbor Intl altimeter setting.
Procedure not authorized at night.

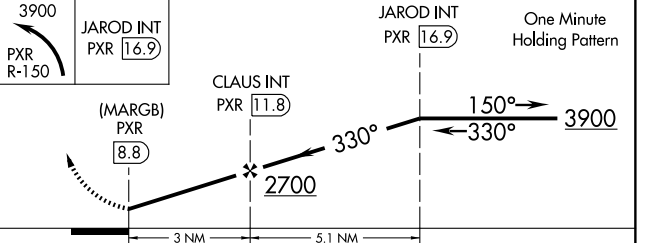
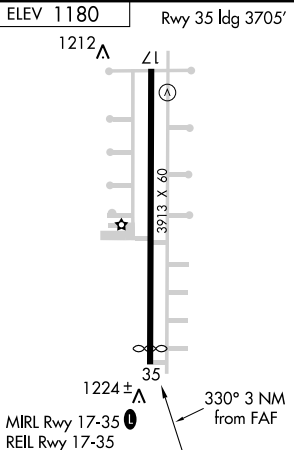
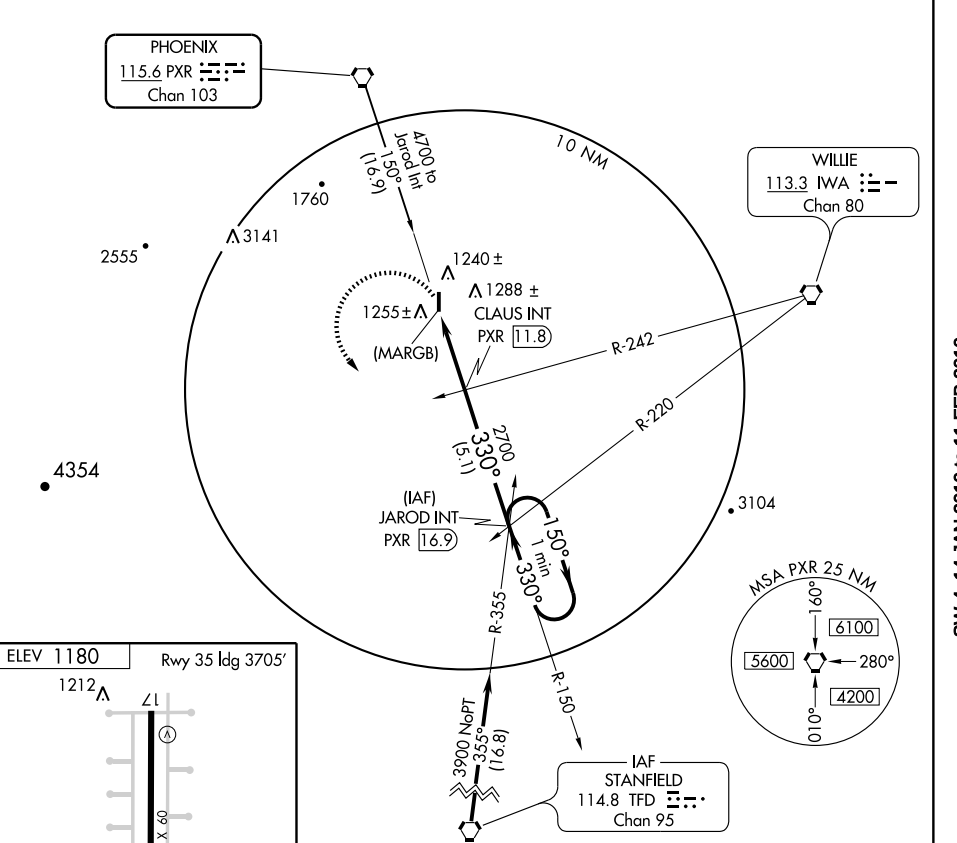
MISSED APPROACH: Climbing left turn to 3900 via PXR R-150 to JAROD Int/PXR 16.9 DME and hold.

PHOENIX APP CON

123.7 363.0

CTAF

122.9



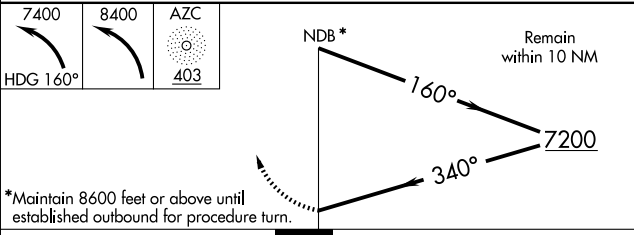
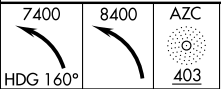
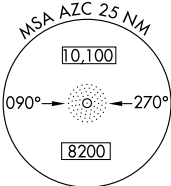
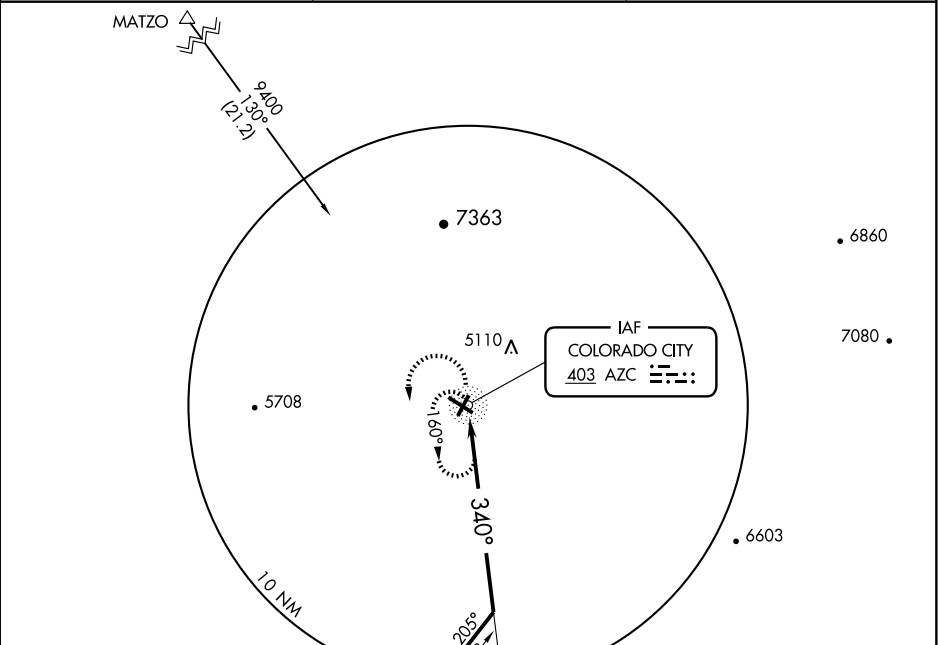
FAF to MAP 3 NM		CATEGORY	A	B	C	D
Knots	60 90 120 150 180	CIRCLING	1600-1 420 (500-1)	1640-1 460 (500-1)	1640-1½ 460 (500-1½)	NA
Min:Sec	3:00 2:00 1:30 1:12 1:00					

NDB AZC 403	APP CRS 340°	Rwy Idg TDZE Apt Elev	N/A N/A 4871
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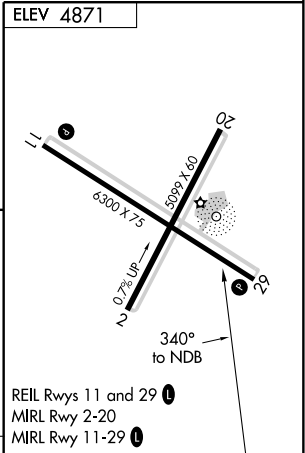
NDB or GPS-A
COLORADO CITY MUNI (AZC)

NA	When local altimeter setting not received, procedure not authorized.	MISSED APPROACH: Climbing left turn to 7400 via heading 160°, then climbing left turn to 8400 direct AZC NDB and hold.
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AWOS-3 118.375	LOS ANGELES CENTER 124.2 343.6	UNICOM 122.7 (CTAF) 0
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*Maintain 8600 feet or above until established outbound for procedure turn.



CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	5700-1 829 (900-1)	5700-1¼ 829 (900-1¼)	5700-2½ 829 (900-2½)	5700-2¾ 829 (900-2¾)	Min:Sec					

▼

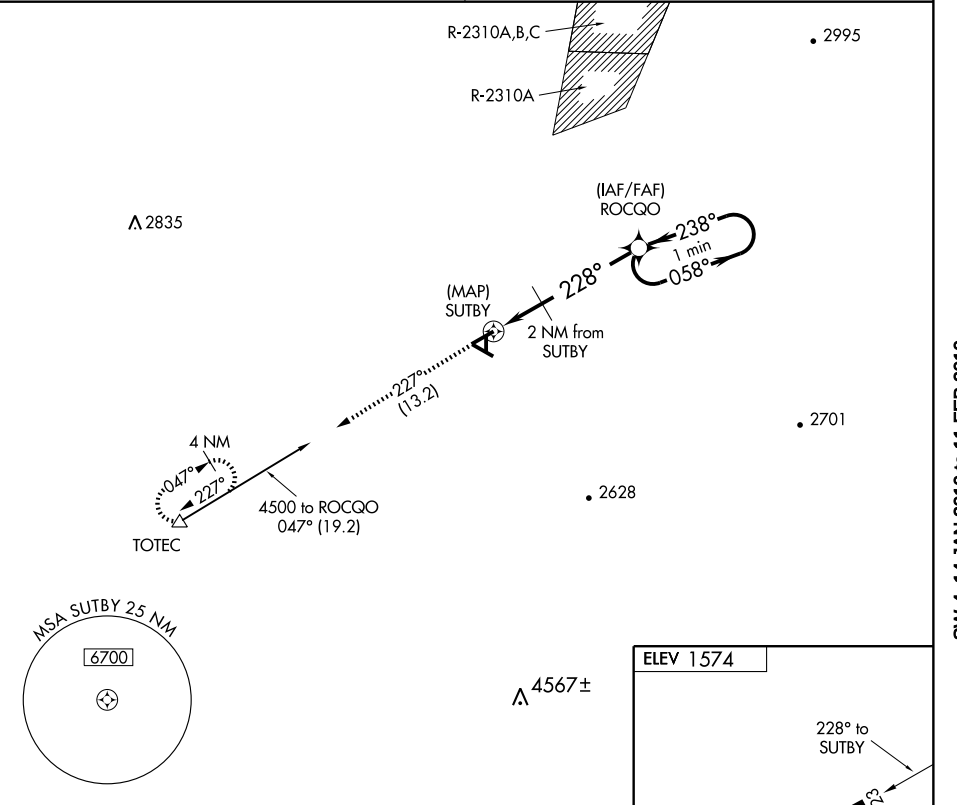
▲ NA

Use Casa Grande Muni alimeter setting.

MISSED APPROACH: Climb to 3900 via 227° course to TOTEC and hold.

ALBUQUERQUE CENTER
125.4 269.3

UNICOM
123.075 (CTAF) 0



3900
↑
227°

TOTEC
△

ROCQO

One Minute Holding Pattern

SUTBY

2 NM from SUTBY

228°

058° →

← 238°

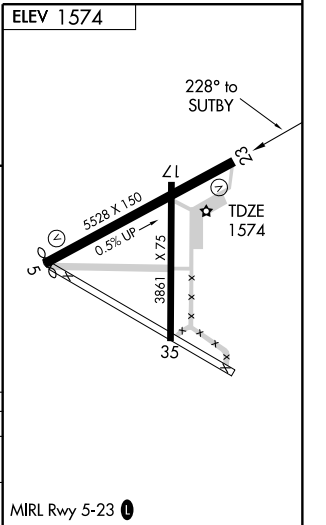
3900

2340

2 NM

4 NM

CATEGORY	A	B	C	D
S-23	2060-1	486 (500-1)	NA	
CIRCLING	2100-1	526 (600-1)	NA	



SW-4, 14 JAN 2010 to 11 FEB 2010

▼

NA

Use Casa Grande Muni altimeter setting.

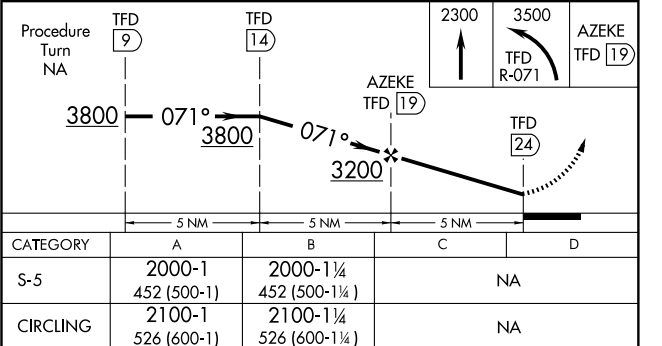
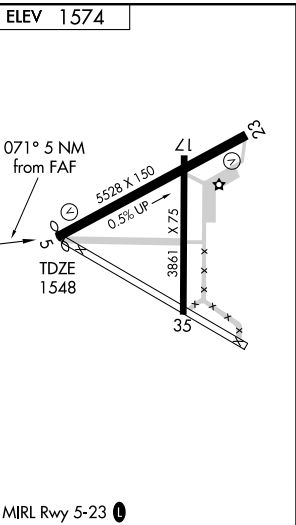
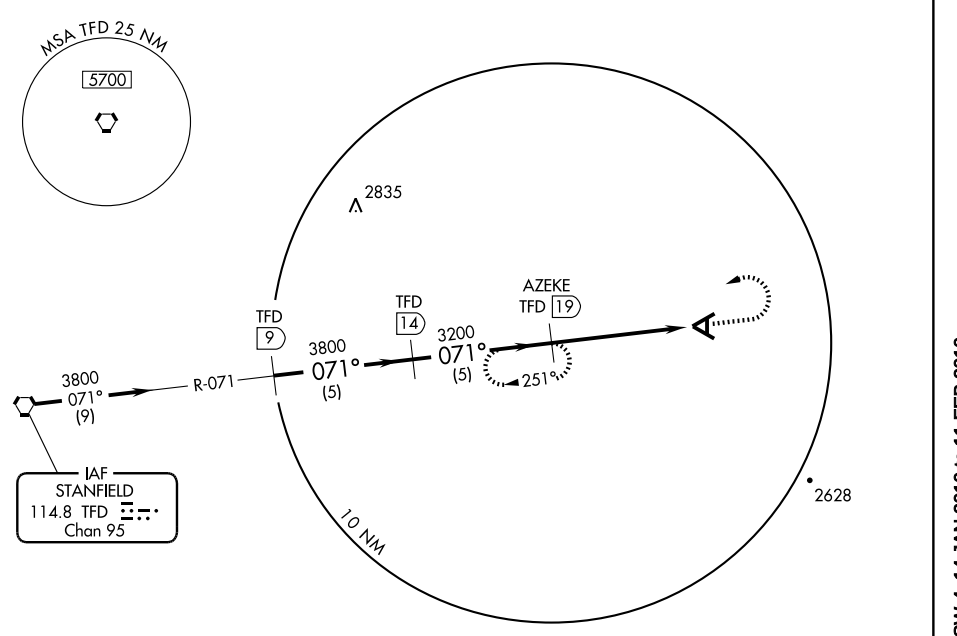
MISSED APPROACH: Climb to 2300, then climbing left turn to 3500 via TFD VORTAC R-071 to AZEKE/19 DME and hold.

ALBUQUERQUE CENTER

125.4 269.3

UNICOM

123.075 (CTAF) 0



VORTAC DUG 108.8 Chan 25	APP CRS 140°	Rwy Idg 7311 TDZE 4123 Apt Elev 4151
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VOR/DME or GPS RWY 17

DOUGLAS-BISBEE / BISBEE-DOUGLAS INTL (DUG)

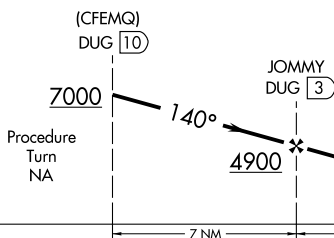
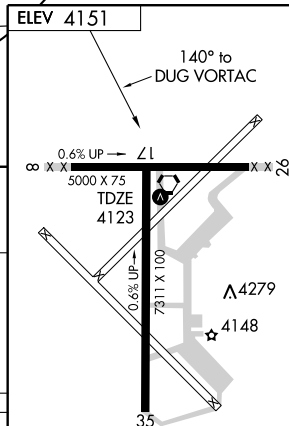
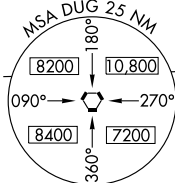
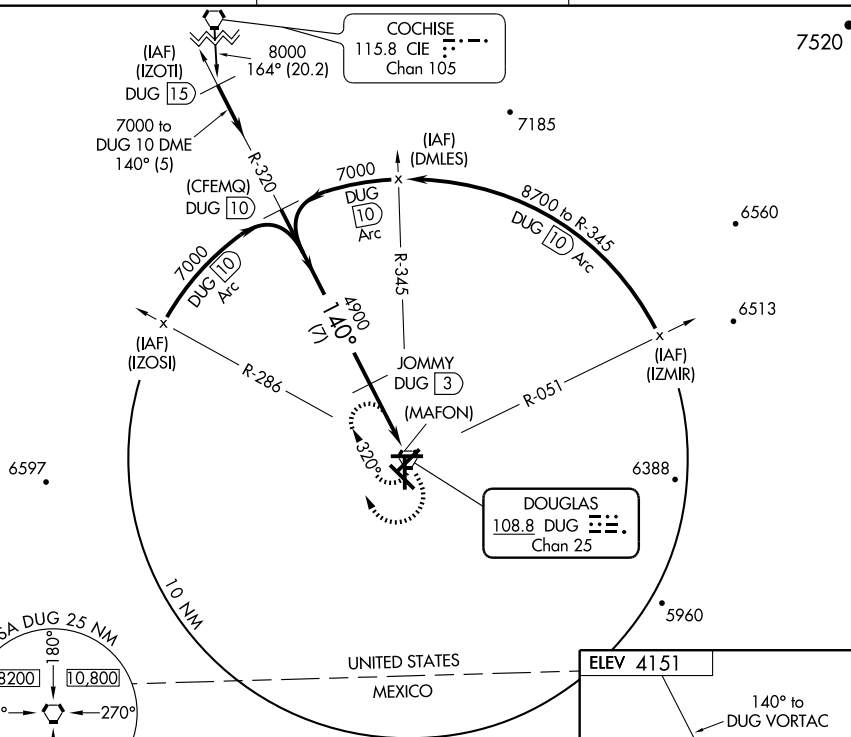


MISSED APPROACH: Climbing right turn to 8000 in DUG VORTAC holding pattern.

ASOS
119.275

PRESCOTT RADIO
122.6

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
S-17	4440-1 317 (300-1)			
CIRCLING	4580-1 429 (500-1)	4620-1 469 (500-1)	4620-1½ 469 (500-1½)	4720-2 569 (600-2)

MIRL Rwy 17-35 **L**

VOR RWY 17

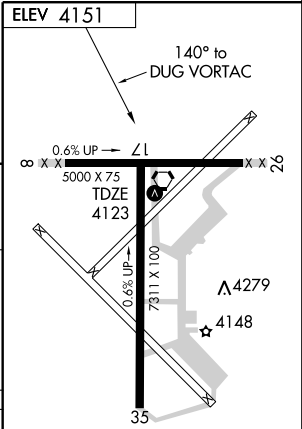
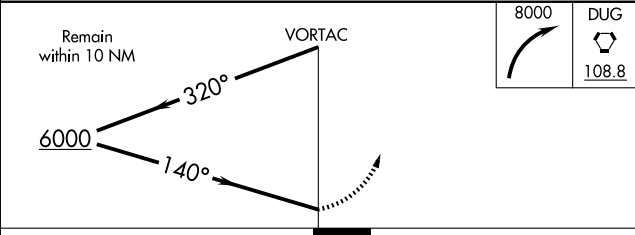
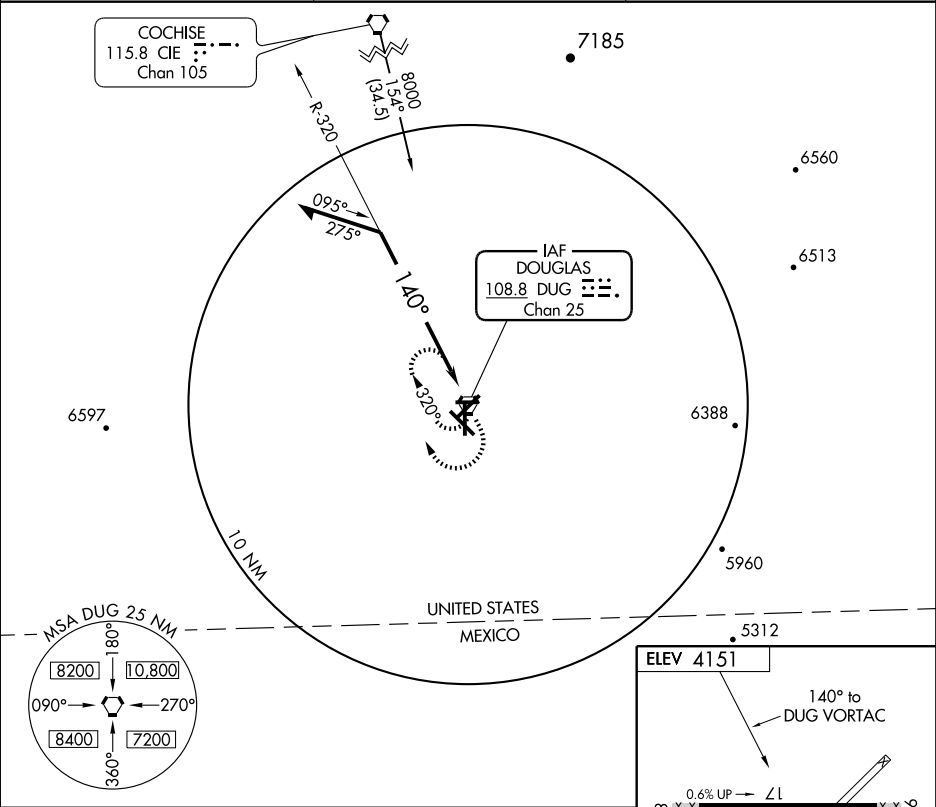
DOUGLAS-BISBEE / BISBEE-DOUGLAS INTL (DUG)

VORTAC DUG 108.8 Chan 25	APP CRS 140°	Rwy Idg TDZE Apt Elev	7311 4123 4151
--	------------------------	-----------------------------	---



MISSED APPROACH: Climbing right turn to 8000
in DUG VORTAC holding pattern.

ASOS 119.275	PRESCOTT RADIO 122.6	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-17	4580-1	457 (500-1)	4580-1½ 457 (500-1½)	4580-1½ 457 (500-1½)
CIRCLING	4580-1 429 (500-1)	4620-1 469 (500-1)	4620-1½ 469 (500-1½)	4720-2 569 (600-2)

MIRL Rwy 17-35 **0**

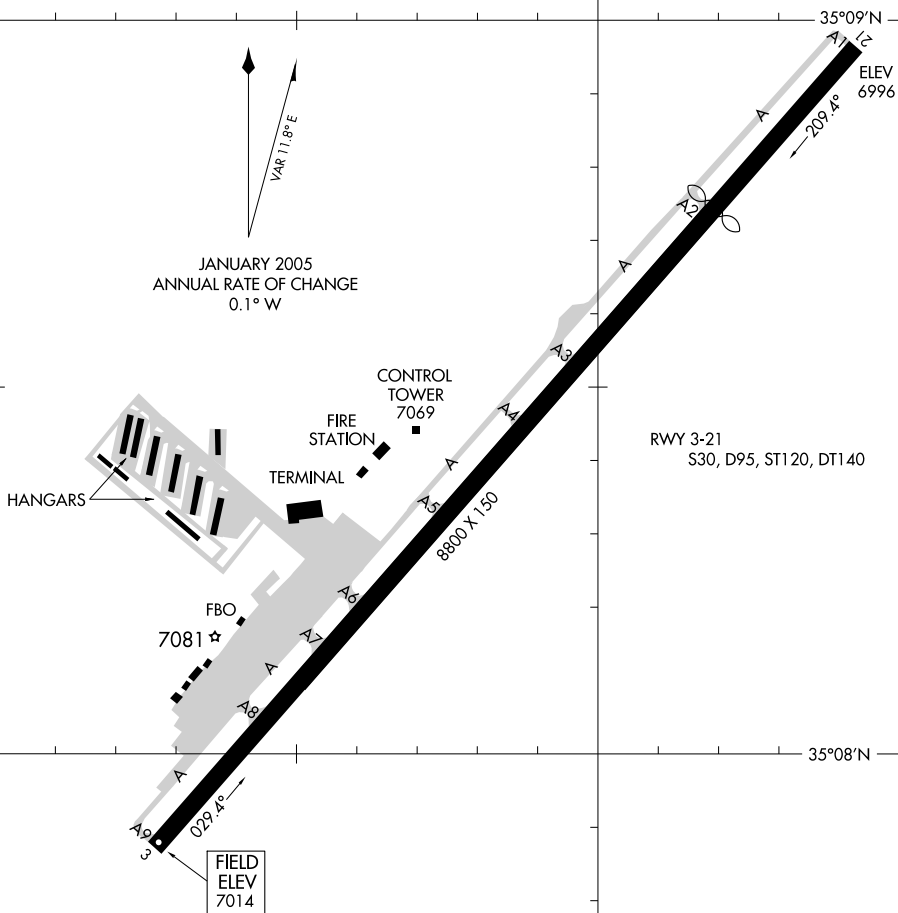
AIRPORT DIAGRAM

AL-5034 (FAA)

FLAGSTAFF PULLIAM (FLG)
FLAGSTAFF, ARIZONA

ATIS
 125.8
 FLAGSTAFF TOWER ★
 134.55 226.3
 GND CON
 121.9

D

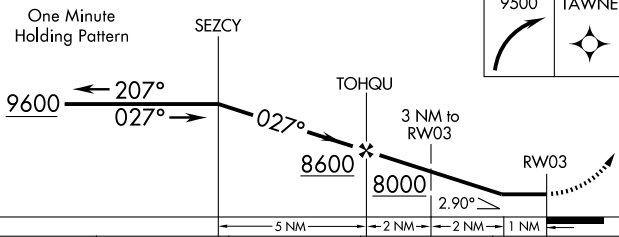
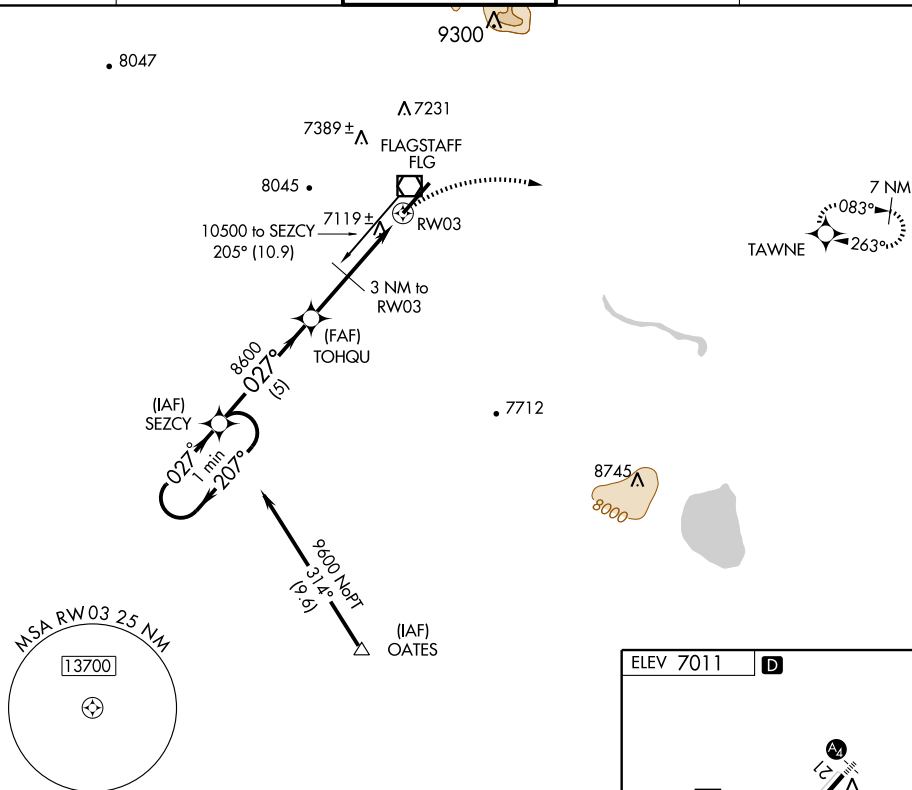


CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

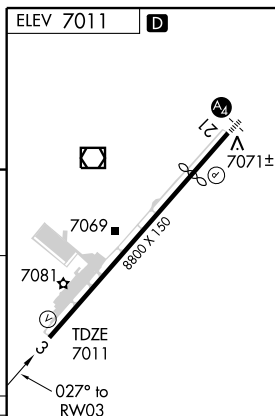
SW-4, 14 JAN 2010 to 11 FEB 2010

Rwy Idg	8800
TDZE	7011
Apt Elev	7011

T
A NA

UNICOM
122.95

CATEGORY	A	B	C	D
S-3	7380-1 369 (400-1)			7380-1¼ 369 (400-1¼)
CIRCLING	7600-1 589 (600-1)	7620-1 609 (700-1)	7620-1¾ 609 (700-1¾)	7640-2 629 (700-2)

HIRL Rwy 3-21 **L**

▼

DME from FLG VOR/DME. Simultaneous reception of I-FLG and FLG DME required.

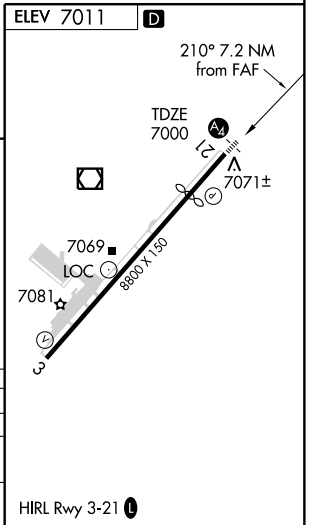
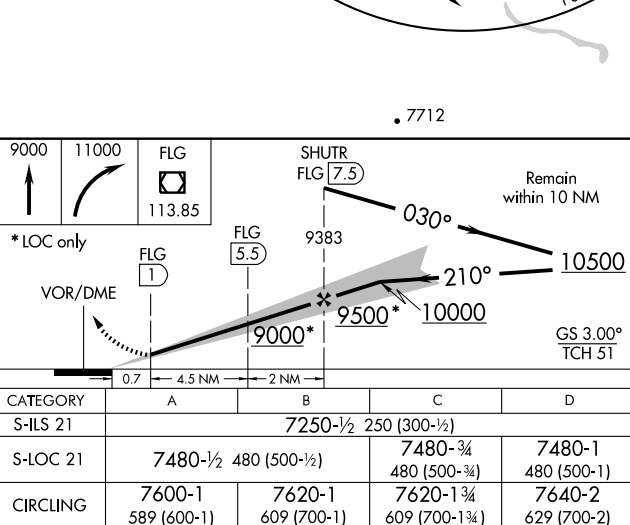
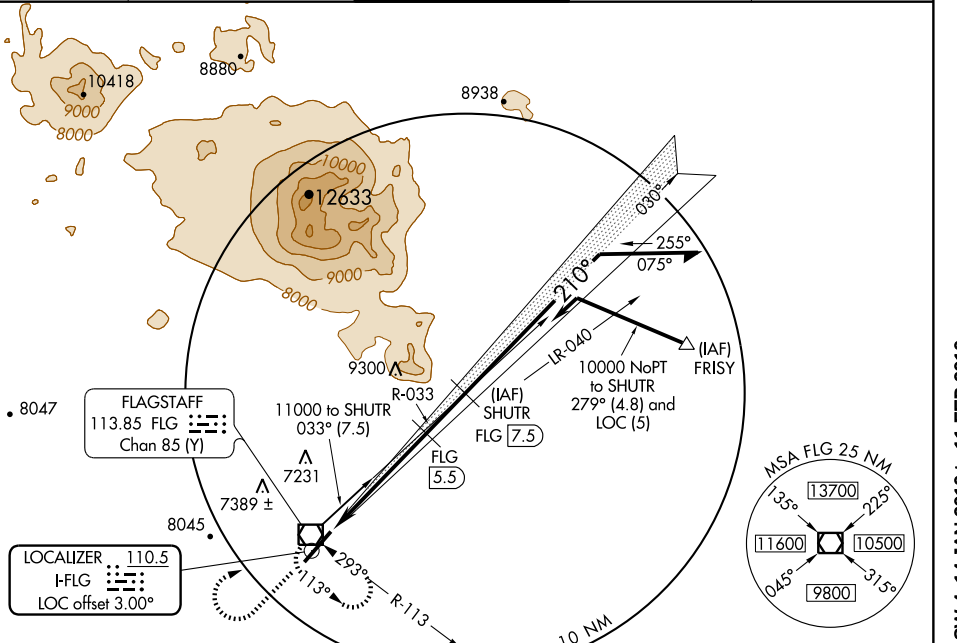
▲

Auto coupled approach not authorized below 7640 feet MSL.

MALS

MISSED APPROACH: Climb to 9000 then climbing right turn to 11000 direct to FLG VOR/DME and hold.

ATIS 125.8	ALBUQUERQUE CENTER 124.5 306.2	FLAGSTAFF TOWER ★ 134.55 (CTAF) 0 226.3	GND CON 121.9	UNICOM 122.95
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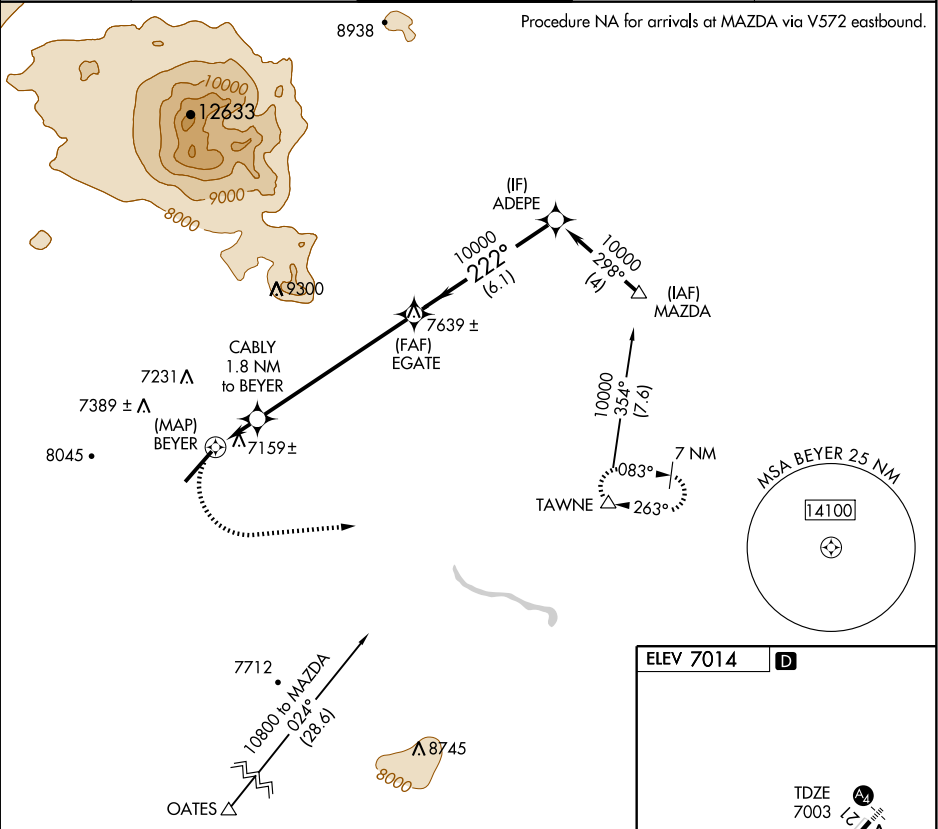
APP CRS	Rwy Idg	7000
222°	TDZE	7003
	Apt Elev	7014

RNAV (GPS) Y RWY 21

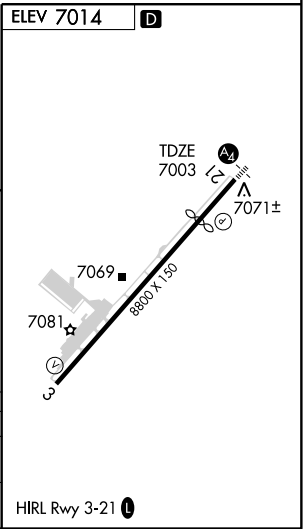
FLAGSTAFF PULLIAM (FLG)

▼ When local altimeter setting not received, procedure NA. DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.	MALS 	MISSED APPROACH: Climbing left turn to 10500 direct TAWNE and hold, continue climb-in-hold to 10500.
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ATIS 125.8	ALBUQUERQUE CENTER 124.5 306.2	FLAGSTAFF TOWER ★ 134.55 (CTAF) 0 226.3	GND CON 121.9	UNICOM 122.95
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10500	TAWNE	EGATE	ADEPE	Procedure Turn NA
				
BEYER	CABLY 1.8 NM to BEYER			
	≤ 3.10° TCH 51	7800	10000	10000
0.4	1.8 NM	6.8 NM	6.1 NM	
CATEGORY	A	B	C	D
LNAV MDA	7420-1	417 (500-1)	7420-1¼ 417 (500-1¼)	7420-1⅞ 417 (500-1⅞)
CIRCLING	7520-1 506 (600-1)	7560-1 546 (600-1)	7560-1½ 546 (600-1½)	7580-2 566 (600-2)



WAAS
CH 65711
W21A

APP CRS
210°

Rwy Idg
TDZE
Apt Elev

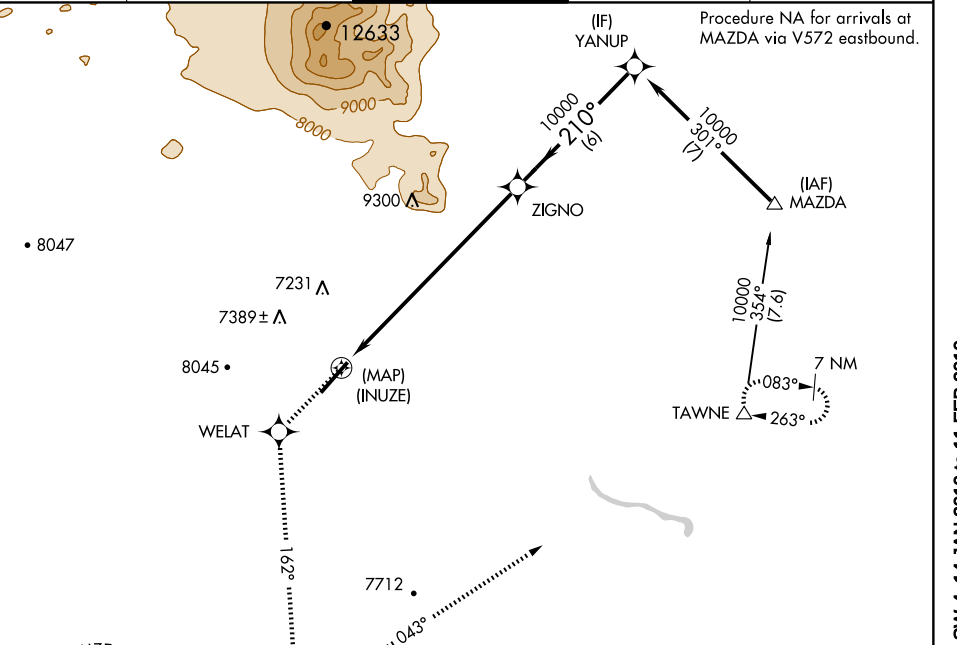
7000
7003
7014

When local altimeter setting not received, procedure NA. DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.

MAIS

MISSED APPROACH: Climb to 10500 direct WELAT and via 162° track to SECOK and left turn via 043° track to TAWNE and hold.

ATIS 125.8	ALBUQUERQUE CENTER 124.5 306.2	FLAGSTAFF TOWER ★ 134.55 (CTAF) 226.3	GND CON 121.9	UNICOM 122.95
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ELEV 7014

D

10500

WELAT

162° trk

SECOK

043° trk

TAWNE

Procedure Turn NA

ZIGNO

YANUP

(INUZE)

210°

10000

GS 3.00°

TCH 51

9 NM

6 NM

CATEGORY	A	B	C	D
LPV DA	7303-1 300 (300-1)			

HIRL Rwy 3-21

SW-4, 14 JAN 2010 to 11 FEB 2010

VOR/DME FLG 113.85 Chan 85 (Y)	APP CRS 236°	Rwy Idg 7000 TDZE 7000 Apt Elev 7011
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VOR/DME RWY 21
FLAGSTAFF PULLIAM (FLG)

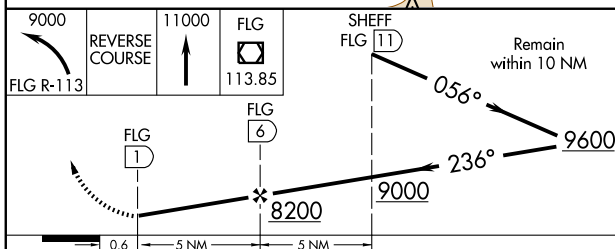
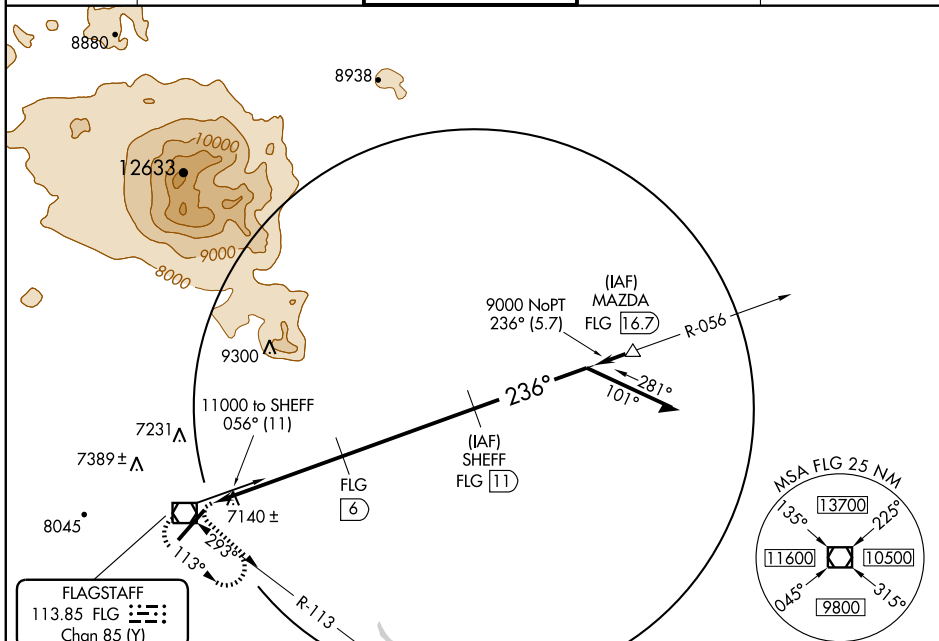
T Inoperative table does not apply.

MALS

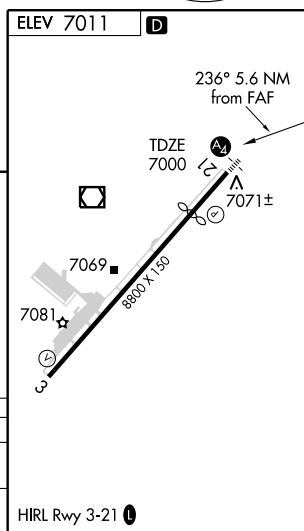


MISSED APPROACH: Climbing left turn to 9000 via FLG R-113, reverse course climbing to 11000 direct to FLG VOR/DME and hold.

ATIS 125.8	ALBUQUERQUE CENTER 124.5 306.2	FLAGSTAFF TOWER * 134.55 (CTAF) 0 226.3	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-21	7800-1 800 (800-1)	7800-1¼ 800 (800-1¼)	7800-2¼ 800 (800-2¼)	7800-2½ 800 (800-2½)
CIRCLING	7800-1 789 (800-1)	7800-1¼ 789 (800-1¼)	7800-2¼ 789 (800-2¼)	7800-2½ 789 (800-2½)



VOR/DME FLG 113.85 Chan 85 (Y)	APP CRS 293°	Rwy Idg N/A TDZE N/A Apt Elev 7011
--	------------------------	---

VOR or GPS-A
FLAGSTAFF PULLIAM (FLG)



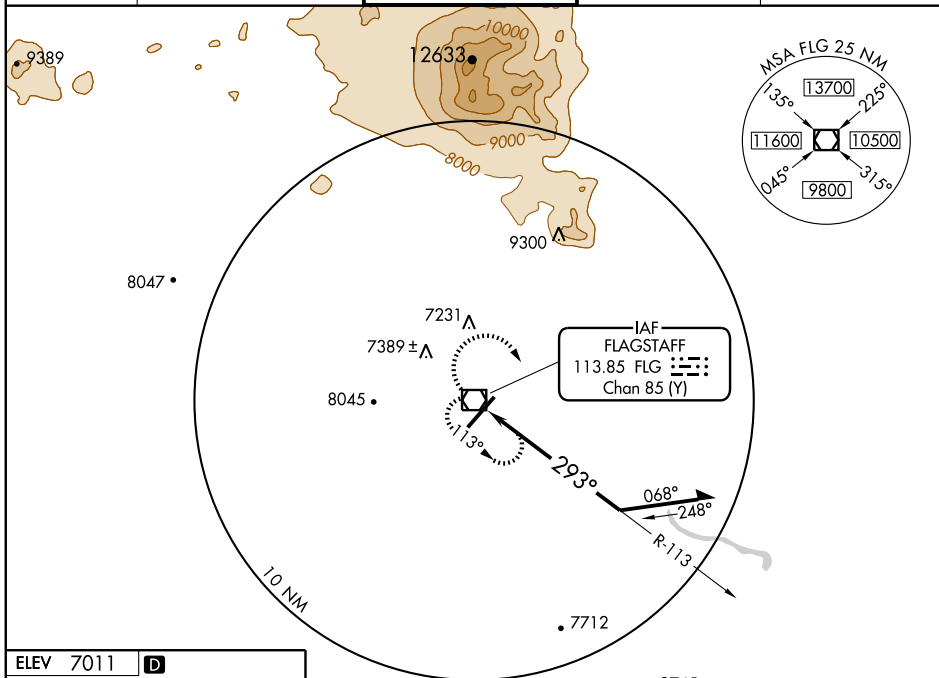
MISSED APPROACH: Climbing right turn to 9000 via FLG R-113 reverse course climbing to 11000 direct to FLG VOR/DME and hold.

ATIS
125.8

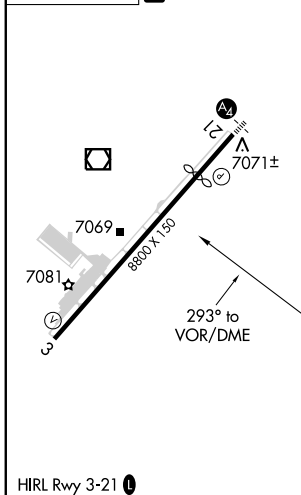
ALBUQUERQUE CENTER
124.5 306.2

FLAGSTAFF TOWER ★
134.55 (CTAF) **L** 226.3

GND CON
121.9

UNICOM
122.95

ELEV	7011	D
------	------	---



9000  FLG R-113	REVERSE COURSE	11000 	FLG  113.85
--	-------------------	--	--

VOR/DME*

Remain
within 10 NM

* Maintain 11000 until established
outbound to procedure turn.

CATEGORY

A	B
7700-1	688 (700-1)

C
7700-2
688 (700-2)

D
7700-21
688 (700-21)

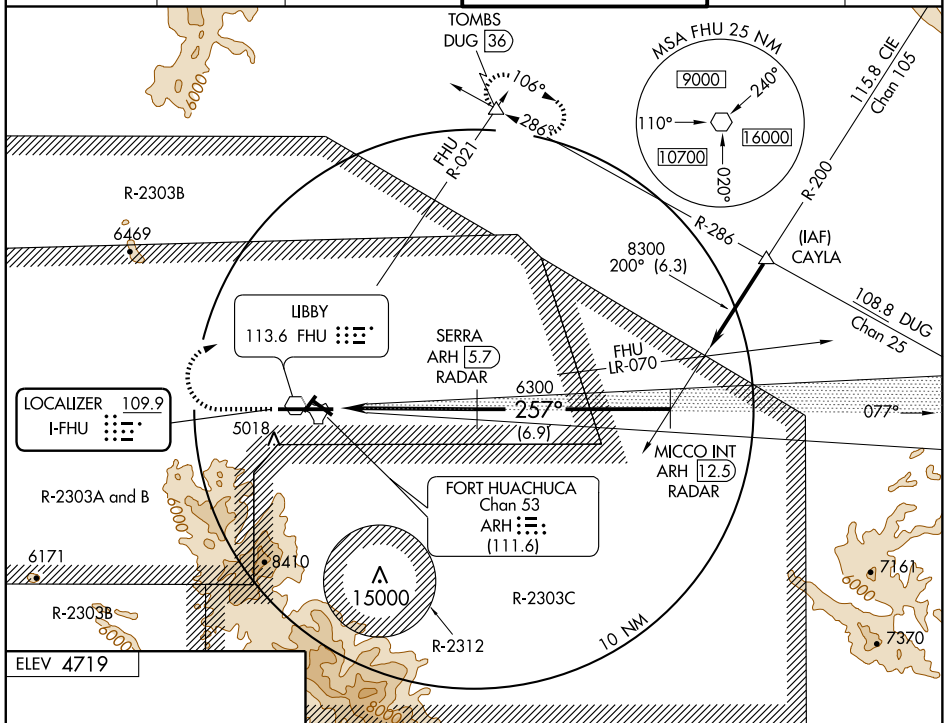
DECEMBER 2009
ANNUAL RATE OF CHANGE
0.1°W



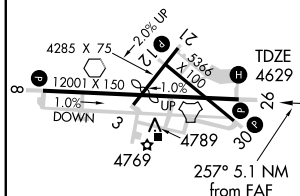
FORT HUACHUCA-SIERRA VISTA/ SIERRA VISTA MUNI-LIBBY AAF (FHU)

ILS or LOC RWY 26

MISSED APPROACH: Climb to 5300, then climbing right turn to 9500 via FHU R-021 to TOMBS and hold.

UNICOM
122.95

RADAR or DME REQUIRED

HIRL Rwy 8-26 **L**MIRL Rwy 3-21 and 12-30 **L**

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

5300 ↑	9500 FHU R-021	TOMBS △	SERRA ARH 5.7 RADAR	MICCO INT ARH 12.5 RADAR
CATEGORY	A	B	C	D
S-ILS 26		4829-¾	200 (200-¾)	
S-LOC 26		4829-1	291 (300-1)	
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)

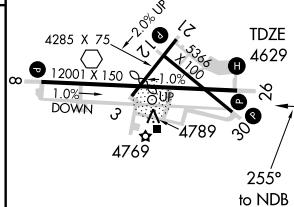
MISSED APPROACH: Climbing right turn to 9500 via DAO NDB 018° bearing to TOMBS Int/DUG 36 DME and hold.

ASR/PAR

124.95 (CTAF) 284.75

121.7 268.7

122.95

LIBBY AAF GCA★
127.05 254.35

CATEGORY	A	B	C	D
S-26	5300-1	671 (600-1)	5300-2 671 (600-2)	5300-2¼ 671 (600-2¼)
CIRCLING	5300-1	581 (600-1)	5300-2 581 (600-2)	5300-2¼ 581 (600-2¼)

MIRL Rwy 3-21 and 12-30 L

APP CRS
077°

Rwy Idg
TDZE
Apt Elev

12001
4719
4719

RNAV (GPS) RWY 8

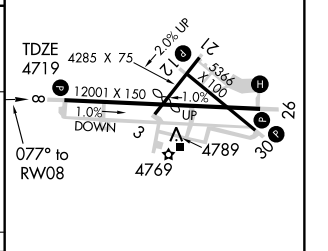
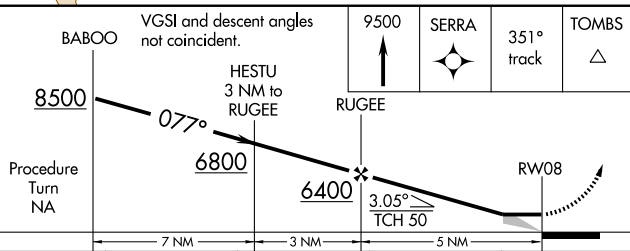
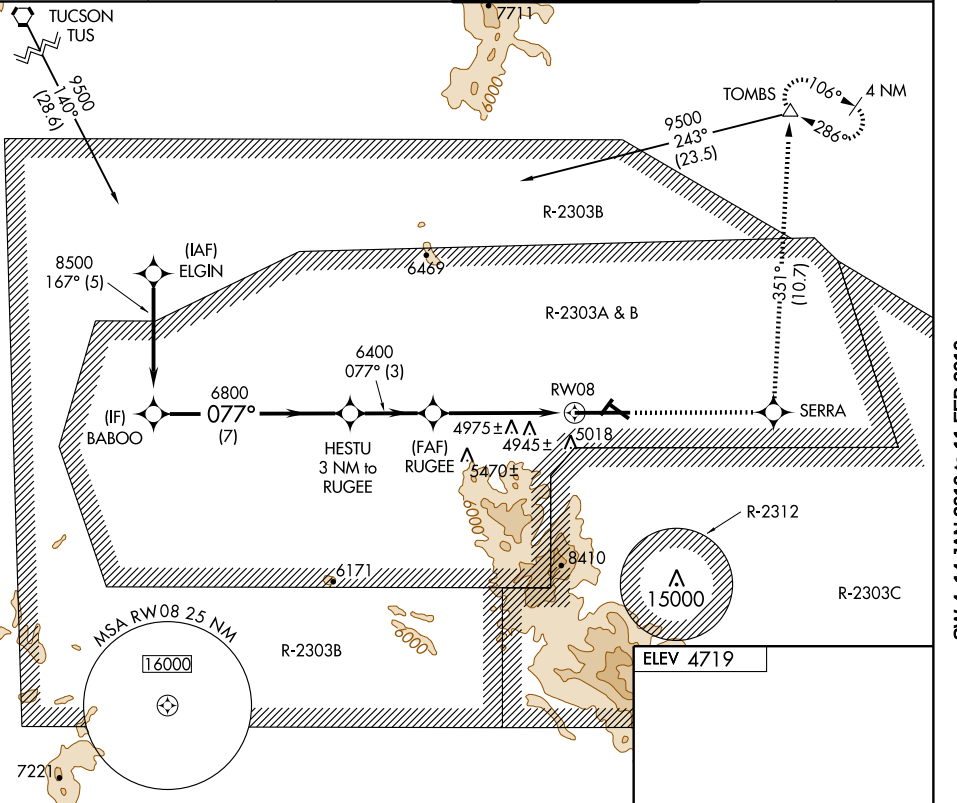
FORT HUACHUCA-SIERRA VISTA/ SIERRA VISTA MUNI-LIBBY AAF (FHU)

ASR/PAW

DME/DME RNP-0.3 NA.
Circling not authorized south of runways 8 and 30.

MISSED APPROACH: Climb to 9500 direct SERRA and via 351° track to TOMBS and hold.

ATIS 134.75 265.7	ASOS 119.675	LIBBY AAF GCA* 127.05 254.35	LIBBY TOWER* 124.95 (CTAF) 284.75	GND CON 121.7 268.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	5920-1¼ 1201 (1300-1¼)	5920-1½ 1201 (1300-1½)	5920-3	1201 (1300-3)
CIRCLING	5920-1¼ 1201 (1300-1¼)	5920-1½ 1201 (1300-1½)	5920-3	1201 (1300-3)

HIRL Rwy 8-26

MIRL Rwy 3-21 and 12-30

SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS
257°

Rwy Idg
TDZE
Apt Elev

12001
4629
4719

RNAV (GPS) RWY 26

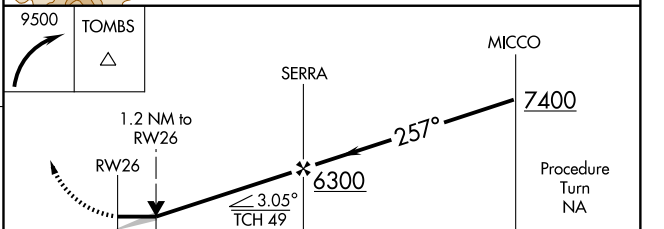
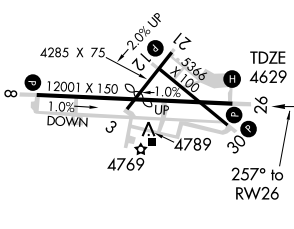
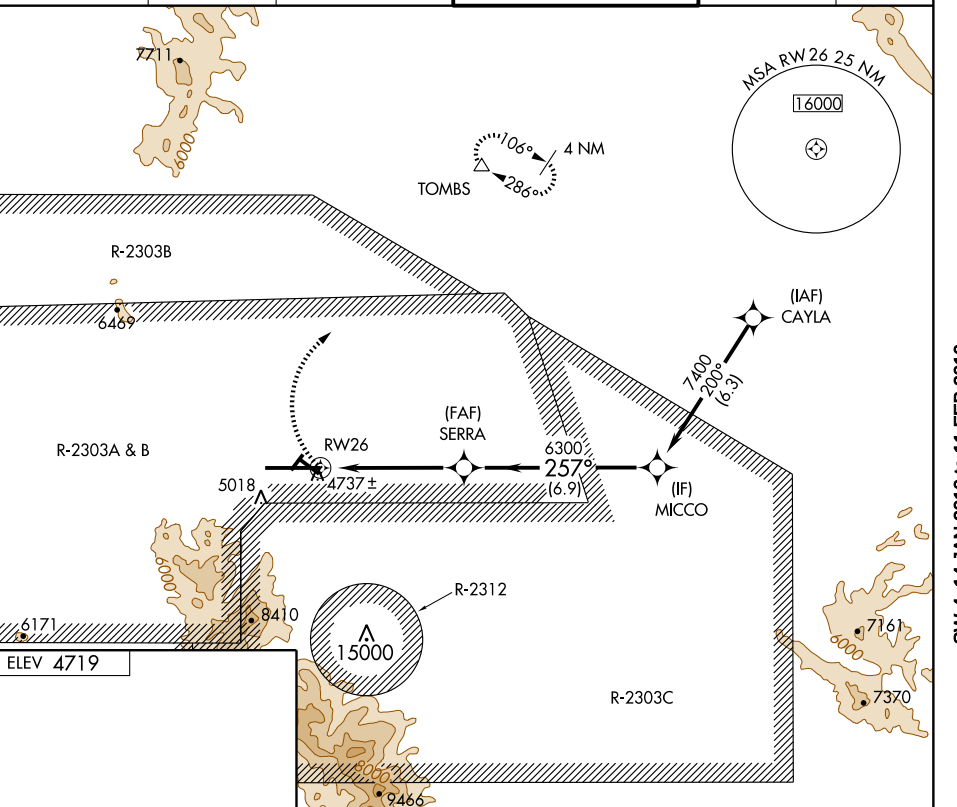
FORT HUACHUCA-SIERRA VISTA/ SIERRA VISTA MUNI-LIBBY AAF (FHTU)

ASR/PAR

DME/DME RNP-0.3 NA.
Circling not authorized south of runways 8 and 30.

MISSED APPROACH: Climbing right turn to 9500 direct TOMBS and hold.

ATIS 134.75 265.7	ASOS 119.675	LIBBY AAF GCA* 127.05 254.35	LIBBY TOWER* 124.95 (CTAF) 284.75	GND CON 121.7 268.7	UNICOM 122.95
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	CATEGORY		A		B	C	D
LNAV MDA	5040-1		411 (400-1)		5040-1¼		411 (400-1¼)
CIRCLING	5160-1 441 (500-1)		5180-1 461 (500-1)		5180-1½ 461 (500-1½)		5280-2 561 (600-2)

HIRL Rwy 8-26

MIRL Rwy 3-21 and 12-30

SW-4, 14 JAN 2010 to 11 FEB 2010

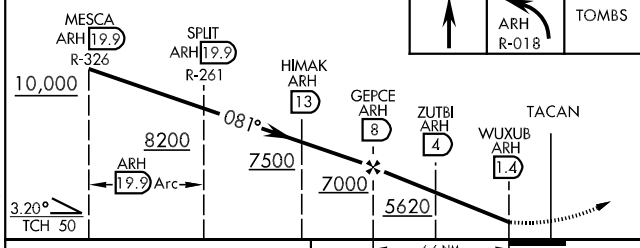
FORT HUACHUCA-SIERRA VISTA/
SIERRA VISTA MUNI-LIBBY AAF (KFHU)

MISSED APPROACH: Climb to 5500 then climbing left turn to 9500 via ARH R-018 to TOMBS INT/DUG 36 DME and hold.

AWOS-3
119.675



TOMBS



CATEGORY	A	B	C	D	E
S-8	5260-1	541 (600-1)	5260-1½ 541 (600-1½)	5260-1¾ 541 (600-1¾)	5260-2 541 (600-2)
CIRCLING *	5260-1	541 (600-1)	5260-1½ 541 (600-1½)	5280-2 561 (600-2)	

FORT HUACHUCA-SIERRA VISTA/ (KFHUY)

Amdt 1A 09351

SIERRA VISTA MUNI-LIBBY AAF

TACAN ARH Chan 53	APCH CRS 251°	Rwy Idg 12,001 TDZE 4629 Arpt Elev 4719
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AL-5081 [USA]

FORT HUACHUCA-SIERRA VISTA/
SIERRA VISTA MUNI-LIBBY AAF (KFHU)

T * Circling not authorized South of Rwy 8 and 30.

MISSED APPROACH: Climb to 5300 then climbing right turn to 9500 via ARH R-018 to TOMBS INT/DUG 36 DME and hold.

ATIS ★
134.75 265.7

LIBBY AAF GCA
127.05 254.35

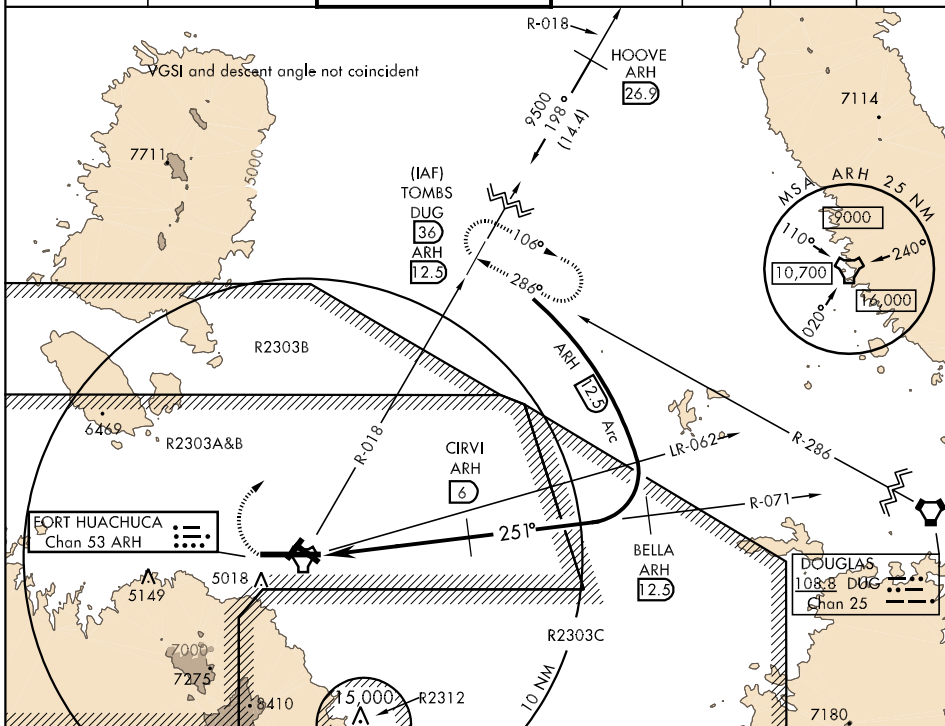
LIBBY TOWER ★
124.95 (CTAF) 284.75

GND CON
121.7 268.7

ASR/PAR

UNICOM
122.95

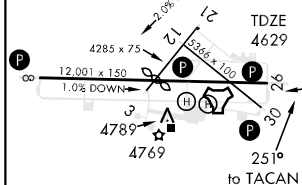
AWOS-3
119.675



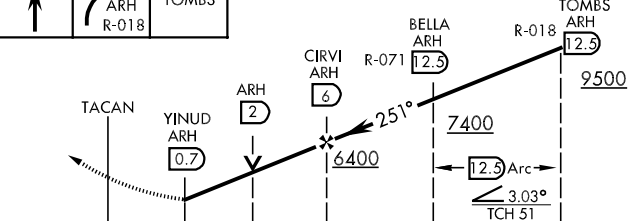
SW-4, 14 JAN 2010 to 11 FEB 2010

ELEV 4719	Rwy 3 Idg 3032'
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5300 ↑	9500 ↘ ARH R-018	TOMBS
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MIRL Rwy 3-21 **L**
HIRL Rwy 8-26 **L**
MIRL Rwy 12-30 **L**



CATEGORY	A	B	C	D	E
S-26	5100-1 471 (500-1)		5100-1¼ 471 (500-1¼)	5100-1½ 471 (500-1½)	5100-1¾ 471 (500-1¾)
CIRCLING *	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)	

FORT HUACHUCA/SIERRA VISTA, ARIZONA

31° 35'N-110° 21'W

FORT HUACHUCA-SIERRA VISTA/ (KFHU)

SIERRA VISTA MUNI-LIBBY AAF

VOR FHU 113.6	APP CRS 259°	Rwy Idg TDZE Apt Elev	12001 4629 4719
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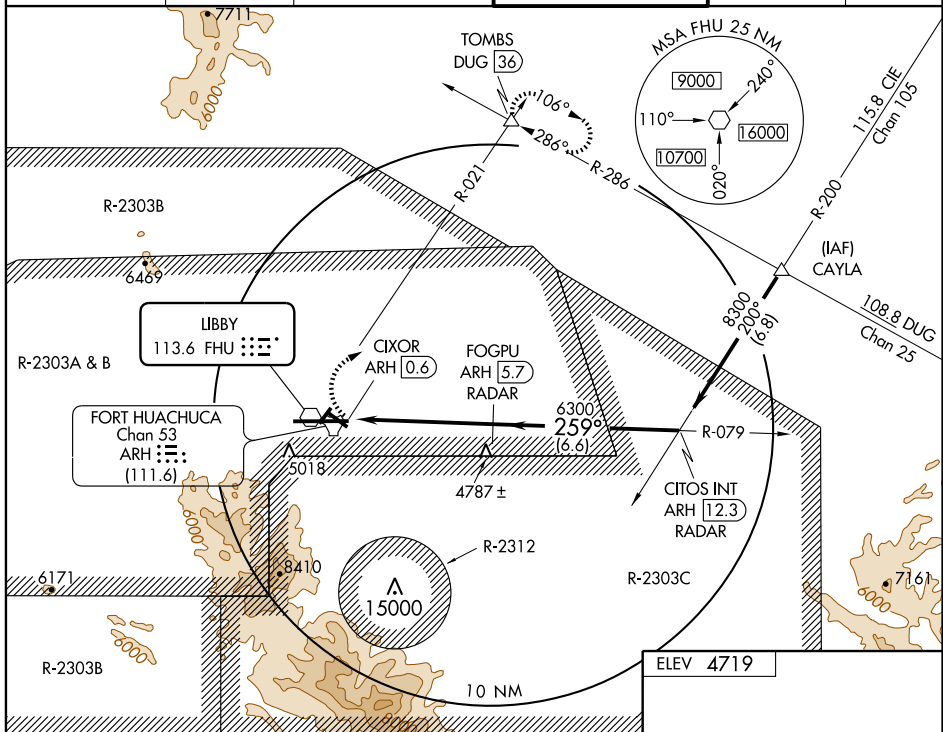
VOR RWY 26
FORT HUACHUCA-SIERRA VISTA/ SIERRA VISTA MUNI-LIBBY AAF (FHU)

VOR RWY 26

T
A Circling not authorized south of Rwys 8 and 30.
ASR/PAR

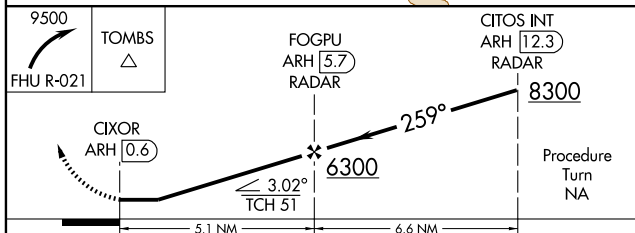
MISSED APPROACH: Climbing right turn to 9500 via FHU R-021 to TOMBS Int/DUG 36 DME and hold.

ATIS	ASOS	LIBBY AAF GCA *	LIBBY TOWER *	GND CON	UNICOM
134.75 265.7	119.675	127.05 254.35	124.95 (CTAF) 0 284.75	121.7 268.7	122.95

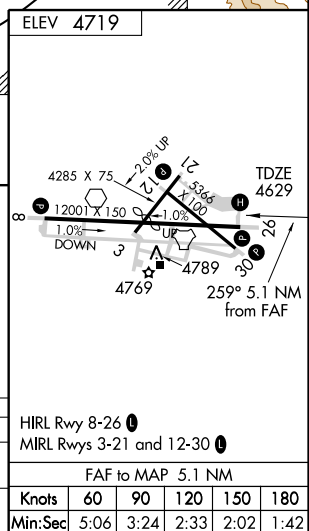


SW-4. 14 JAN 2010 to 11 FEB 2010

RADAR or DME REQUIRED



CATEGORY	A	B	C	D
S-26	5140-1	511 (500-1)	5140-1½	511 (500-1½)
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)



19071

AIRPORT DIAGRAM

AL-6915 (FAA)

GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

ATIS
119.425
GLENDALE TOWER ★
121.0
GND CON
118.0

HANGARS

FIELD
ELEV
1071

33°32'N

TERMINAL

CONTROL
TOWER
1106

7150 X 100

VAR 11.7° E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

HANGARS

33°31.5'N

RWY 1-19
S40, D60

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ELEV
1041

112°18'W

112°17.5'W

SW-4, 14 JAN 2010 to 11 FEB 2010

(DRAKE1.DRAKE) 08325 SL-6915 (FAA)
DRAKE ONE DEPARTURE (RNAV) (OBSTACLE)

GLENDALE MUNI(GEUT)
GLENDALE, ARIZONA

ATIS 119.425
LUKE DEP CON ★
118.15 363.12
PHOENIX DEP CON
120.7 239.0
GLENDALE TOWER ★
121.0 (CTAF)
UNICOM 122.95

DRAKE
DRK
350°
(25)

KARLO
10000

TAKE-OFF MINIMUMS

Rwy 19: NA-ATC.
Rwy 1: Standard, with minimum
climb of 400 feet per NM to KUWSO.

NOTE: 1. GPS Required.
2. RNAV 1.

TAKE-OFF OBSTACLE NOTES

Rwy 1: Obstruction light on blast fence.
Multiple lights/poles, buildings, trees
and vehicle on roads beginning 4 feet
from DER, out to 680 feet from DER,
634 feet right of centerline to 437 feet
left of centerline, up to 79 feet AGL/
1144 MSL.

324°
(41)

A-231

PODRY

WATEG

KUWSO

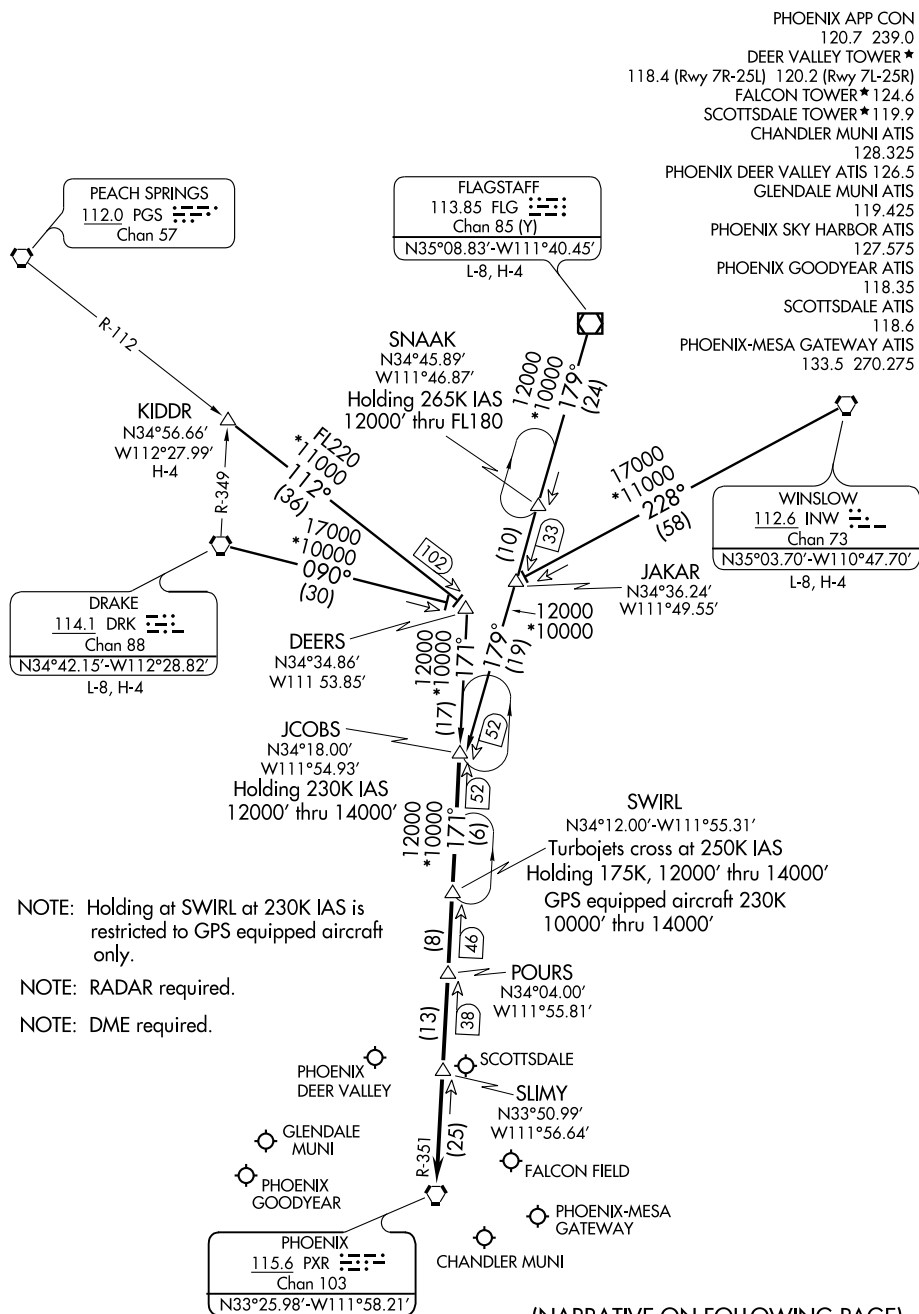
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 1: Climb direct KUWSO, then via depicted route to cross KARLO
at or above 10,000.

JCBS TWO ARRIVAL

SCOTTSDALE, ARIZONA



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

WAAS CH 90306 W01A	APP CRS 014°	Rwy Idg TDZE 1049 Apt Elev 1071
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RNAV (GPS) RWY 1

GLENDALE MUNI (GETU)

⚠ Circling not authorized west of Rwy 1-19. DME/DME RNP- 0.3 NA.
 ⚠ Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting.
 For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
 -17°C (2°F) or above 47°C (117°F).
 When local altimeter setting not received, use Phoenix Sky Harbor
 Intl altimeter setting and increase all DAs/MDAs 60 feet, LNAV/VNAV
 all Cats visibility 1/4 mile and LNAV Cat C/D visibility 1/4 mile.

MISSED APPROACH: Climb to 10000 direct
 BAPPA and via 334° track to GINKE and hold,
 continue climb-in-hold to 10000.

ATIS
119.425

LUKE APP CON ★
118.15 363.12

GLENDALE TOWER ★
121.0 (CTAF) 0

GND CON
118.0

UNICOM
122.95

Procedure NA for arrivals at ALLIS via V16 westbound and
 arrivals at POTER via V94-95 eastbound and via V95 southbound.

(IAF)
 ALLIS △

5000
 133°
 (14.9)

(IF)
 AGERE ☆

3100
 014°
 (1.2)

(FAF)
 CIRVO

1186±
 1157±
 171±
 RW01

• 2555

• 3650

• 4512

• 4160

MSA RW 01 25 NM

5800

5000
 312°
 (2.5)

(IAF)
 POTER

ELEV 1071

Rwy 1 Idg 6449'
 Rwy 19 Idg 6149'

AGERE

Procedure Turn NA

10000



334°
 track

GINKE
 △

5000

014°

CIRVO

RW01

3100

GS 3.00°
 TCH 40

12 NM

6.2 NM

CATEGORY	A	B	C	D
LPV DA	1378-1¼ 329 (400-1¼)			
LNAV/VNAV DA	1457-1½ 408 (400-1½)			
LNAV MDA	1440-1 391 (400-1)			1440-1¼ 391 (400-1¼)
CIRCLING	1460-1 389 (400-1)	1540-1 469 (500-1)	1540-1½ 469 (500-1½)	1640-2 569 (600-2)

TWR
 1106

TDZE
 1049

0.4% UP

7130 x 100

014° to
 RW01

MIRL Rwy 1-19 0

REIL Rwy 1 and 19 0

WAAS CH 87004 W19A	APP CRS 194°	Rwy Idg TDZE Apt Elev 6149 1065 1071
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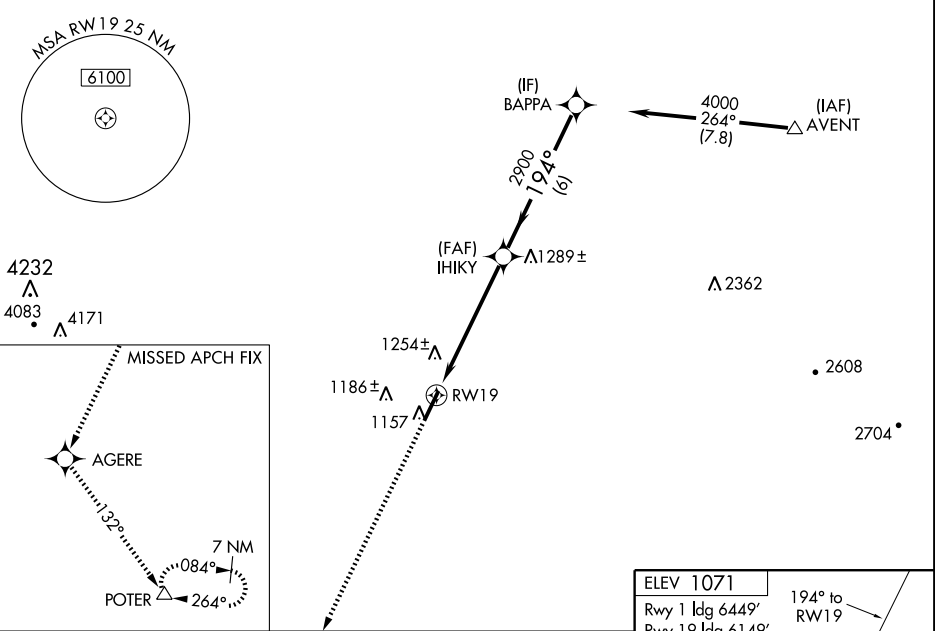
RNAV (GPS) RWY 19

Glendale Muni (GEU)

⚠ Circling not authorized west of Rwy 1-19. DME/DME RNP-0.3 NA.
⚠ If local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DAs/MDAs 60 feet.
VDP and Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F).

MISSED APPROACH: Climb to 5000 direct AGERE then climb to 8000 via 132° track to POTER and hold.

ATIS 119.425	LUKE APP CON★ 118.15 363.12	Glendale Tower★ 121.0 (CTAF) 📶	GND CON 118.0	UNICOM 122.95
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5000
↑

AGERE
✧

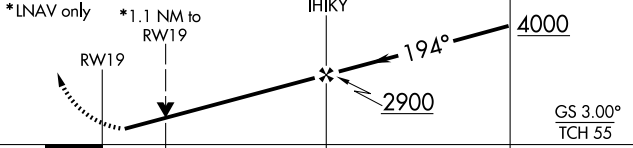
8000
↑

POTER
△

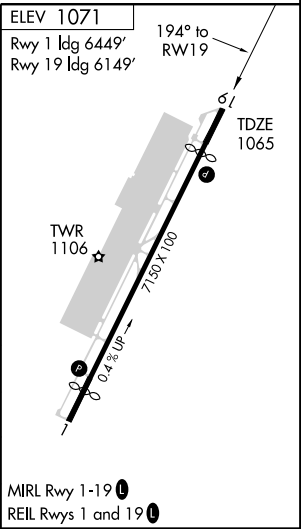
VGSI and RNAV glidepath not coincident.

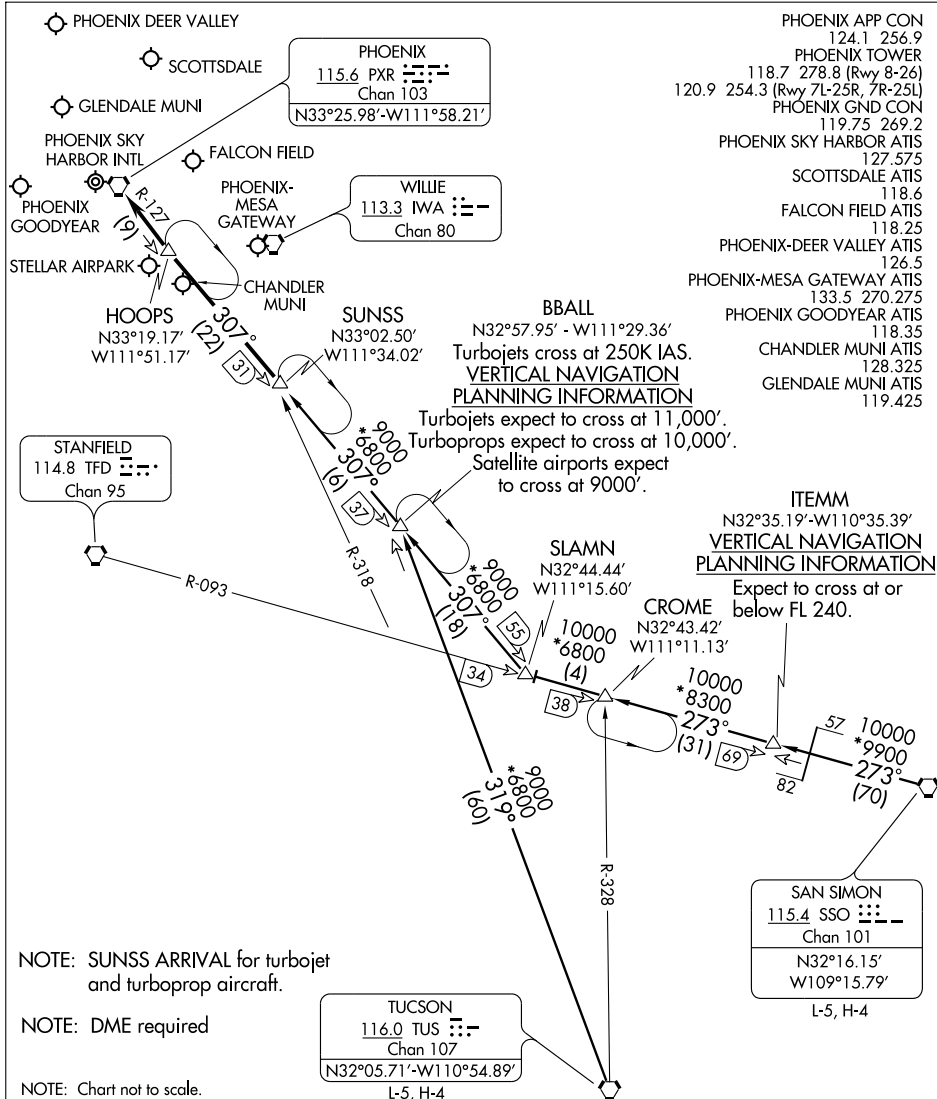
BAPPA

Procedure Turn NA



CATEGORY	A	B	C	D
LPV DA	1339-1 274 (300-1)			
LNAV/ DA	1572-1¾ 507 (600-1¾)			
LNAV MDA	1540-1 475 (500-1)	1540-1¼ 475 (500-1¼)	1540-1½ 475 (500-1½)	
CIRCLING	1540-1 469 (500-1)	1540-1½ 469 (500-1½)	1540-2 569 (600-2)	





SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

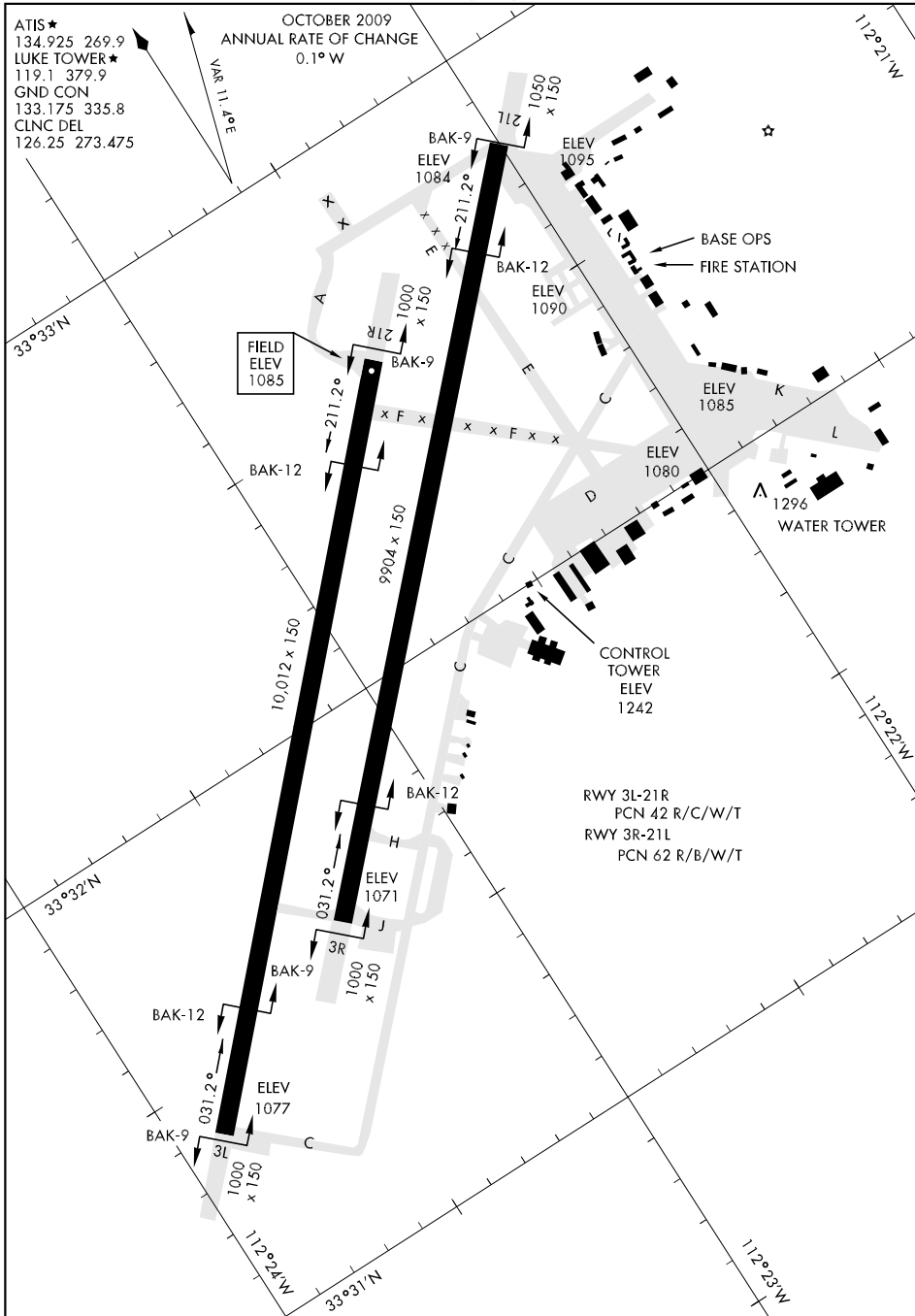
TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

ATIS★
134.925 269.9
LUKE TOWER★
119.1 379.9
GND CON
133.175 335.8
CLNC DEL
126.25 273.475

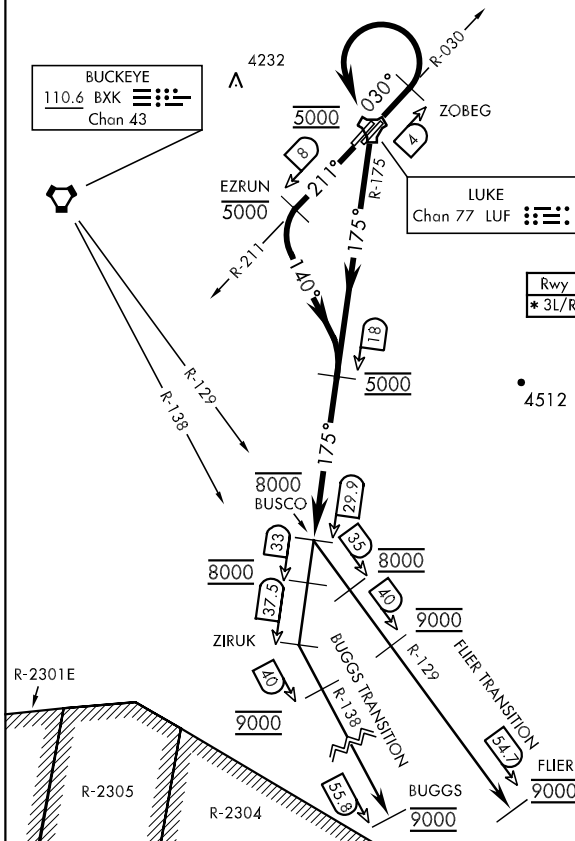
OCTOBER 2009
ANNUAL RATE OF CHANGE
0.1° W

VAR 11.4°E



SW-4, 14 JAN 2010 to 11 FEB 2010

ATIS ★ 134.925 269.9
 CLNC DEL
 126.25 273.475
 GND CON
 133.175 335.8
 LUKE TOWER ★
 119.1 379.9
 LUKE DEP CON
 125.45 263.125



Rwy	Knots	120	180	240	300	360
* 3L/R	V/V(fpm)	740	1110	1480	1850	2220

* Minimum Climb Rate to 5000

CAUTION:
 Aircraft exiting BUGGS at 8000.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb tracking 030°. Abeam ZOBEG (LUF TACAN R-030/4 DME) turn left direct LUF. Cross LUF at 5000 and proceed outbound via LUF R-175 to 29.9 DME (BUSCO), cross LUF 18 DME at 5000, cross BUSCO at or below 8000 (or as assigned by ATC). Then via assigned route/transition.

TAKE-OFF RWY 21L/R: Climb tracking 211°. Abeam EZRUN (LUF TACAN R-211/8 DME) turn left heading 140° to intercept and proceed via LUF R-175 to 29.9 DME (BUSCO). Cross abeam EZRUN at or below 5000, cross LUF 18 DME at 5000, cross BUSCO at or below 8000, (or as assigned by ATC). Then via assigned route/transition.

BUGGS TRANSITION (BUSCO9•BUGGS): Proceed via LUF R-175 to 37.5 DME (ZIRUK). Intercept and proceed via B XK VORTAC R-138 to 55.8 DME (BUGGS). Cross LUF R-175/33 DME at 8000, cross B XK R-138/40 DME at 9000, cross BUGGS at and maintain 9000 (or as assigned by ATC). CAUTION: Aircraft exiting BUGGS at 8000.

FLIER TRANSITION (BUSCO9•FLIER): Intercept and proceed via the B XK VORTAC R-129 to 54.7 DME (FLIER). Cross B XK 35 DME at 8000, cross B XK 40 DME at 9000, cross FLIER at and maintain 9000 (or as assigned by ATC)

LOC I-LUF
108.7

APCH CRS
030°

Rwy Idg	9904
TDZE	1074
Arpt Elev	1085

9904

1074

1085

JAL-321 [USAF]

LUKE AFB (KLUF)

T * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.

When ALS inop, increase CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.

ALSF-1

MISSED APPROACH: Track heading 030° to 4000, intercept LUF TACAN R-030 to JOKVI (LUF R-030/12 DME). Ctc LUKE APP CON.

ATIS ★
134.925 26

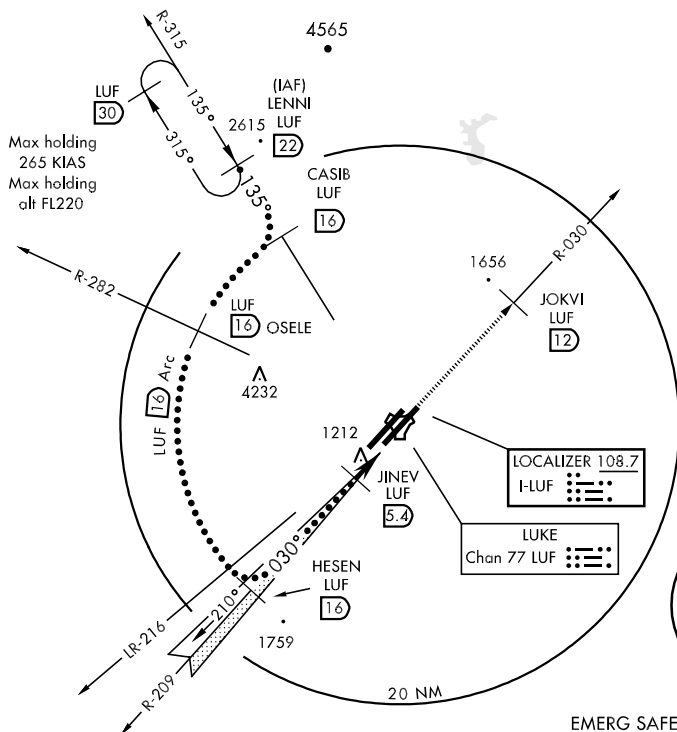
LUKE APP CON
118.15 363.12

LUKE TOWER ★
119.1 379.9

GND CON
133.175 335.8

CLNC DEL
126.25 273.475

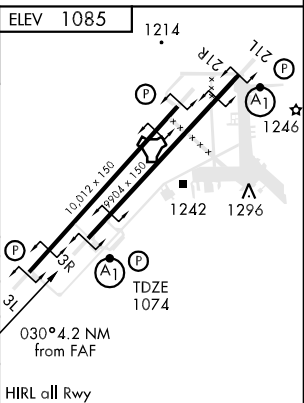
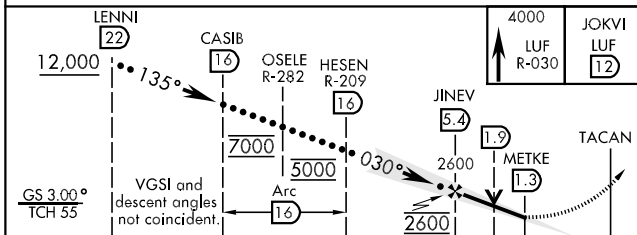
*** Circling not authorized E of Rwy 3R-21L.



MSA LUF 25 NM

5600

EMERG SAFE ALT 100 NM 16.200



CATEGORY	C	D	4.1 NM	0.5 NM	E
S-ILS 3R *	1274/24	200	(200-½)		
S-LOC/ DME 3R **	1480/40	406 (400-¾)		1480/50 406 (400-1)	
CIRCLING ***	1560-1½ 475 (500-1½)	1640-2 555 (600-2)		NOT AUTHORIZED	

GLENDAL, ARIZONA

33°32'N-112°23'W

LUKE AFB (KLUF)

Amdt 3 09239

LOG/DME DMA/DB

LOC I-EMJ 110.9	APCH CRS 210°	Rwy Idg TDZE Arpt Elev 9904 1085
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JAL-321 [USAF]

LUKE AFB (KLUF)

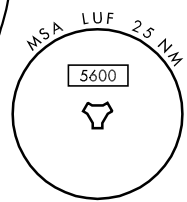
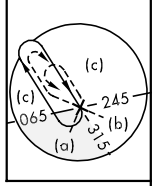
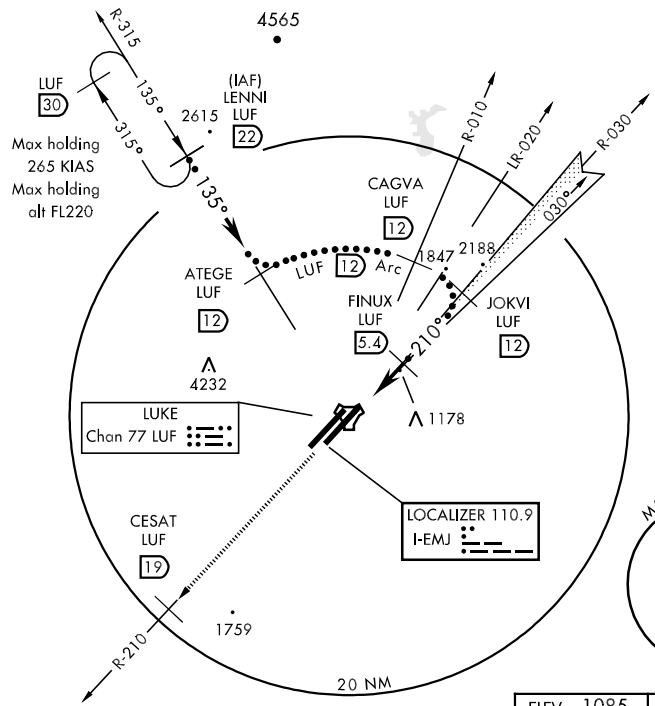
* When ALS inop, increase RVR to 40 and vis to ¾ mile.
 ** When ALS inop, increase CAT C RVR to 60 and vis to 1 ¼ miles, CAT DE vis to 1 ½ miles.



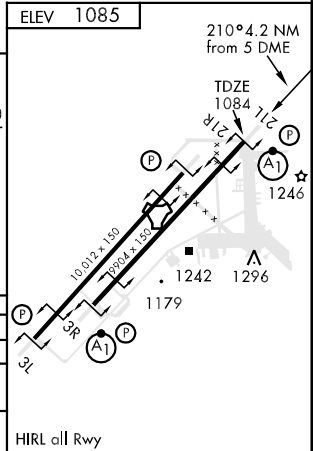
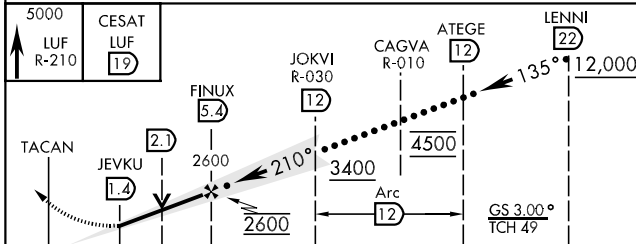
MISSED APPROACH: Track heading 210° to 5000. Intercept LUF TACAN R-210 at CESAT (LUF R-210/19 DME). Ctc LUKE APP CON.

ATIS ★ 134.925 269.9	LUKE APP CON 118.15 363.12	LUKE TOWER ★ 119.1 379.9	GND CON 133.175 335.8	CLNC DEL 126.25 273.475
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*** Circling not authorized E of Rwy 3R-21L.



EMERG SAFE ALT 100 NM 16, 200



CATEGORY	C	D	E
S-ILS 21L*	1284/24	200	(200-½)
S-LOC/ **	1540-/40	1540/50	
DME 21L	456 (500-¾)	456 (500-1)	
CIRCLING***	1560-1½ 475 (500-1½)	1640-2 555 (600-2)	NOT AUTHORIZED

SW-4, 14 JAN 2010 to 11 FEB 2010

TACAN LUF Chan 77	APCH CRS 032°	Rwy Idg 10,012 TDZE 1077 Arpt Elev 1085
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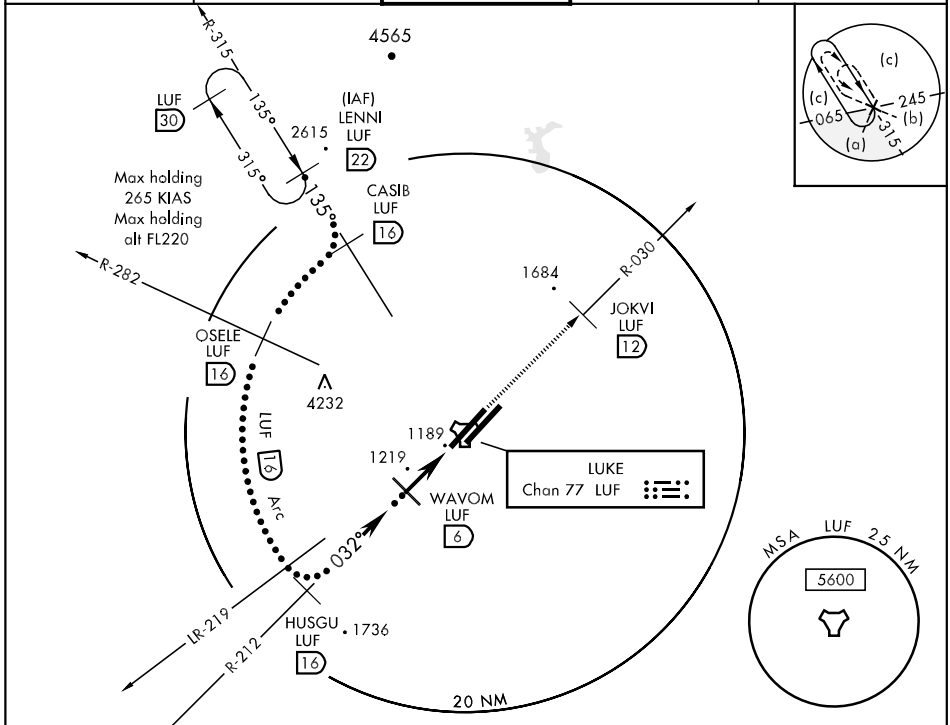
JAL-321 [USAF]

LUKE AFB (KLUF)

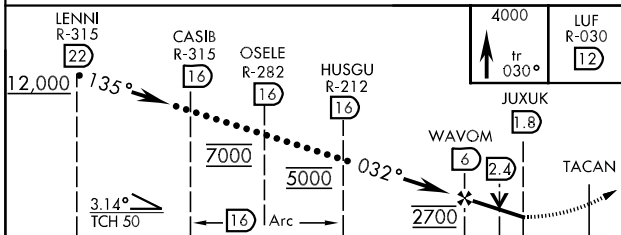
▼ * Circling not authorized E of Rwy 03L-21R.

MISSED APPROACH: Track heading 030° to 4000, intercept LUF R-030 to JOKVI (LUF R-030/12 DME). Ctc LUKE APP CON.

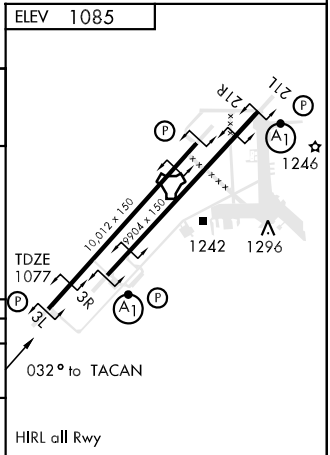
ATIS ★ 134.925 269.9	LUKE APP CON 118.15 363.12	LUKE TOWER ★ 119.1 379.9	GND CON 133.175 335.8	CLNC DEL 126.25 273.475
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EMERG SAFE ALT 100 NM 16,200



CATEGORY	C	D	E
S-3L	1500-1¼ 423 (500-1¼)	1500-1½ 423 (500-1½)	
CIRCLING *	1560-1½ 475 (500-1½)	1640-2 555 (600-2)	NOT AUTHORIZED



TACAN Chan 77	LUF 026°	APCH CRS 026°	Rwy Idg TDZE Arprt Elev	9904 1074 1085
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JAL-321 [USAF]

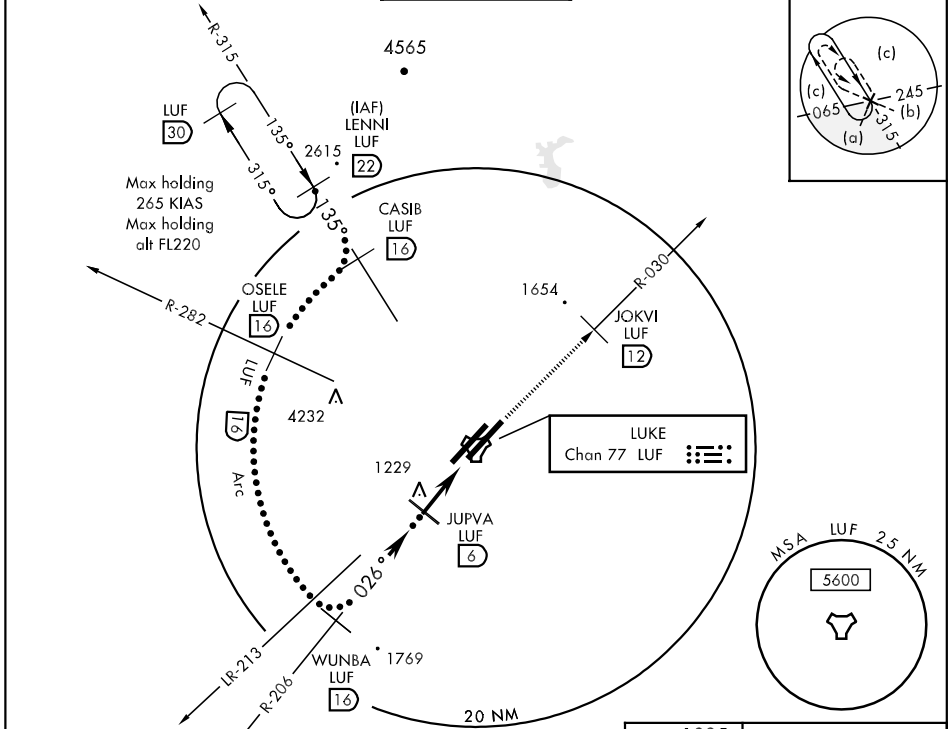
LUKE AFB (KLUF)

▼ * When ALS inop, increase CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.
** Circling not authorized E of Rwy 3R-21L.

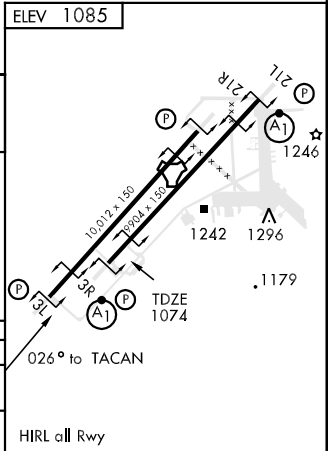
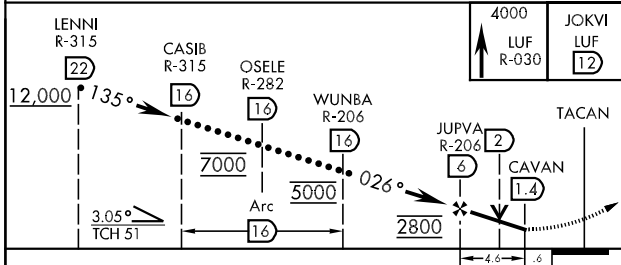


MISSED APPROACH: Track heading 030° to 4000, intercept LUF TACAN R-030 to JOKVI (LUF R-030/12 DME). Contact Luke APP CON.

ATIS ★ 134.925 269.9	LUKE APP CON 118.15 363.12	LUKE TOWER ★ 119.1 379.9	GND CON 133.175 335.8	CLNC DEL 126.25 273.475
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EMERG SAFE ALT 100 NM 16,200



CATEGORY	C	D	E
S-3R *	1500/40	426 (500-¾)	1500/50 426 (500-1)
CIRCLING **	1560-1½ 475 (500-1½)	1640-2 555 (600-2)	NOT AUTHORIZED

SW-4, 14 JAN 2010 to 11 FEB 2010

▼ * Circling not authorized E of Rwy 3R-21L.	MISSED APPROACH: Track heading 210° to 5000. Intercept LUF TACAN R-210 to CESAT (LUF R-210/19 DME). Contact LUKE APP CON.
---	--

[illegible]

CATEGORY	C	D	E
S-21R	1580-1¼ 495 (500-1¼)	1580-1½ 495 (500-1½)	1580-1¾ 495 (500-1¾)
CIRCLING *	1580-1½ 495 (500-1½)	1640-2 555 (600-2)	NOT AUTHORIZED

HIRL all Rwy

LENNI THREE ARRIVAL

ST-321 (FAA)

LUKE AIR FORCE BASE
GLENDALE, ARIZONA

ALBUQUERQUE CENTER

128.45 289.9
 LUKE RAPCON ★
 118.15 363.12
 LUKE TOWER ★
 119.1 379.9
 ATIS ★
 134.925 269.9
 METRO
 267.4

DRAKE
 114.1 DRK
 Chan 88
 N34°42.15'-W112°28.82'
 L-8, H-4

NOTE: Military Only.

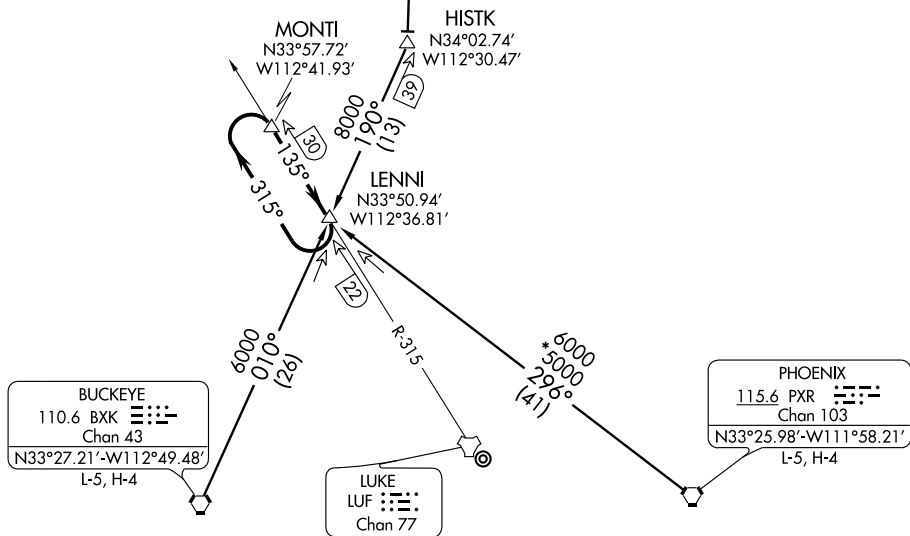
NOTE: DME required.

TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION

Expect to cross LENNI at FL220.

Expect one turn in holding at LENNI.

En-route descent DRAKE TRANSITION only.



NOTE: Chart not to scale.

BUCKEYE TRANSITION (BXX.LENNI3): From over BXX VORTAC via BXX R-010 to LENNI INT. Thence

DRAKE TRANSITION (DRK.LENNI3): From over DRK VORTAC via DRK R-168 and BXX R-010 to LENNI INT. Thence

PHOENIX TRANSITION (PXR.LENNI3): From over PXR VORTAC via PXR R-296 to LENNI INT. Thence

. . . . Expect one turn in holding at LENNI INT followed by HI-TACAN/HI-ILS or LOC/DME to Luke AFB.

LUKE-ONE DEPARTURE (LUKE1•DRK)

LUKE1•DRK (RECEIVED)

GLENDAL, ARIZONA

ATIS ★ 134.925 269.9
CLNC DEL
126.25 273.475
GND CON
133.175 335.8
LUKE TOWER ★
119.1 379.9
LUKE DEP CON
118.15 363.125
ALBUQUERQUE CENTER
125.25 307.3

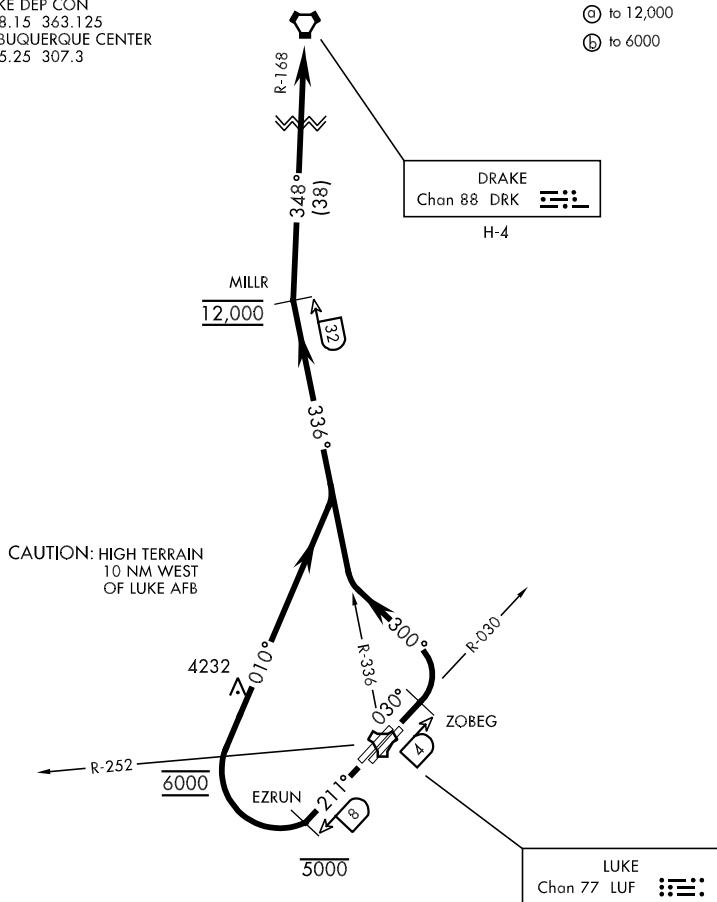
SH-321 [USAF]

Rwy	Knots	120	180	240	300	360
† 3L Ⓞ	V/V(fpm)	670	1000	1340	1670	2000
† 3R Ⓞ	V/V(fpm)	670	1010	1340	1680	2010
* 21L/R Ⓞ	V/V(fpm)	860	1290	1720	2150	2580

* Minimum † ATC Climb Rate

Ⓞ to 12,000

Ⓞ to 6000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3 L/R: Climb on a track of 030°. Abeam ZOBEG (LUF R-030/04) turn left and track 300° to intcp and proceed via LUF R-336 to MILLR (LUF R-336/32) then via DRK R-168 to DRK. Cross MILLR at and maintain 12,000 or as assigned by ATC.

TAKE-OFF RWY 21 L/R: Climb on a track of 211°. Abeam EZRUN (LUF R-211/08) turn right to track 010° to intcp and proceed via LUF R-336 to MILLR (LUF R-336/32) then via DRK R-168 to DRK. Cross 8 DME at or below 5000, cross LUF R-252 at 6000, cross MILLR at and maintain 12,000 or as assigned by ATC.

LUKE-ONE DEPARTURE (LUKE1•DRK)

GLENDAL, ARIZONA

SW-4, 14 JAN 2010 to 11 FEB 2010

ATIS ★ 134.925 269.9
CLNC DEL
126.25 273.475
GND CON
133.175 335.8
LUKE TOWER ★
119.1 379.9
LUKE DEP CON
118.15 363.125
ALBUQUERQUE CENTER
125.25 307.3

GLADDEN T
MOA

7918



Minimum Climb Rate

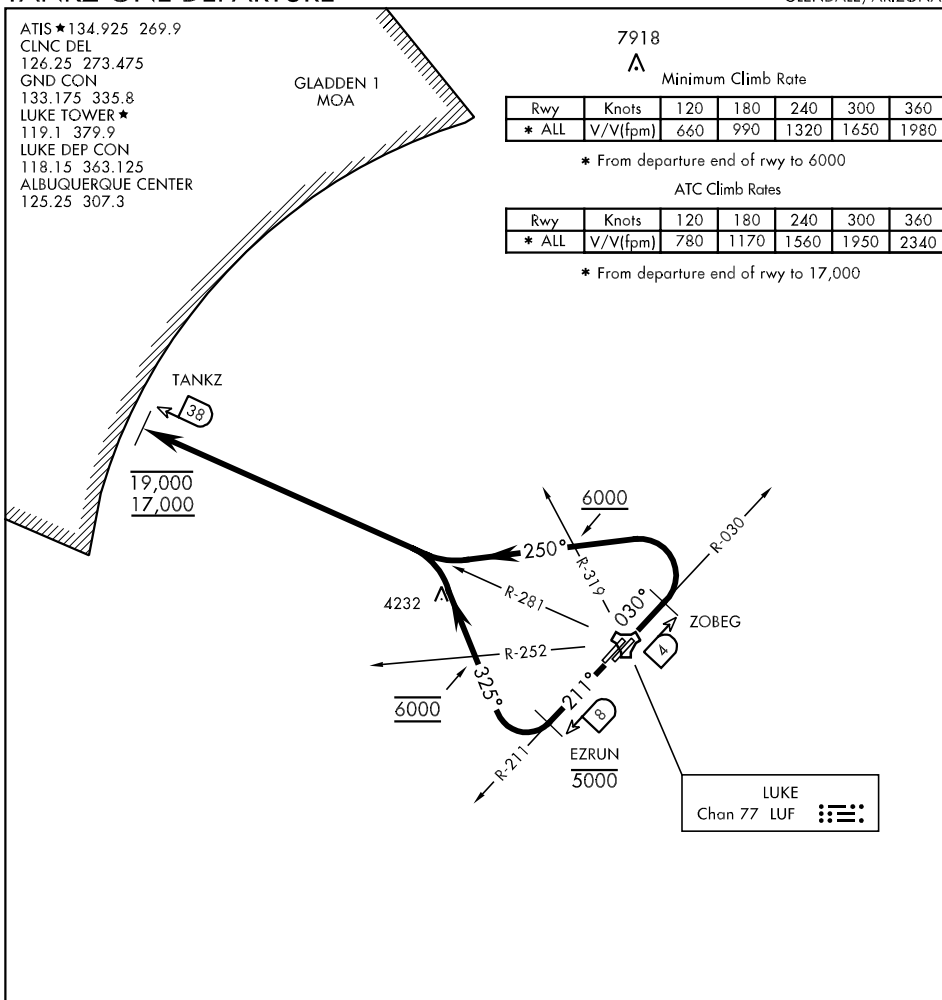
Rwy	Knots	120	180	240	300	360
* ALL	V/V(fpm)	660	990	1320	1650	1980

* From departure end of rwy to 6000

ATC Climb Rates

Rwy	Knots	120	180	240	300	360
* ALL	V/V(fpm)	780	1170	1560	1950	2340

* From departure end of rwy to 17,000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3 L/R: Climb on a track of 030°. Abeam LUF TACAN R-030/04 (ZOBEG) turn left heading 250° to intercept and proceed via LUF R-281 to 38 DME (TANKZ). Cross LUF R-319 at or above 6000. Cross TANKZ at or above 17,000 and below 19,000 (or as assigned by ATC).

TAKE-OFF RWY 21 L/R: Climb on a track of 211°. Abeam LUF TACAN R-211/08 (EZRUN) turn right heading 325° to intercept and proceed via LUF R-281 to 38 DME (TANKZ). Cross 8 DME at or below 5000. Cross LUF R-252 at 6000. Cross TANKZ at or above 17,000 and below 19,000 (or as assigned by ATC).

SW-4, 14 JAN 2010 to 11 FEB 2010

TIRON-SEVEN DEPARTURE (TIRON7)

SH-321 [USAF]

GLENDALE, ARIZONA

ATIS ★ 134.925 269.9
CLNC DEL
126.25 273.475
GND CON
133.175 335.8
LUKE TOWER ★
119.1 379.9
LUKE DEP CON
118.15 363.125
ALBUQUERQUE CENTER
125.25 307.3

BAGDAD 1
MOA

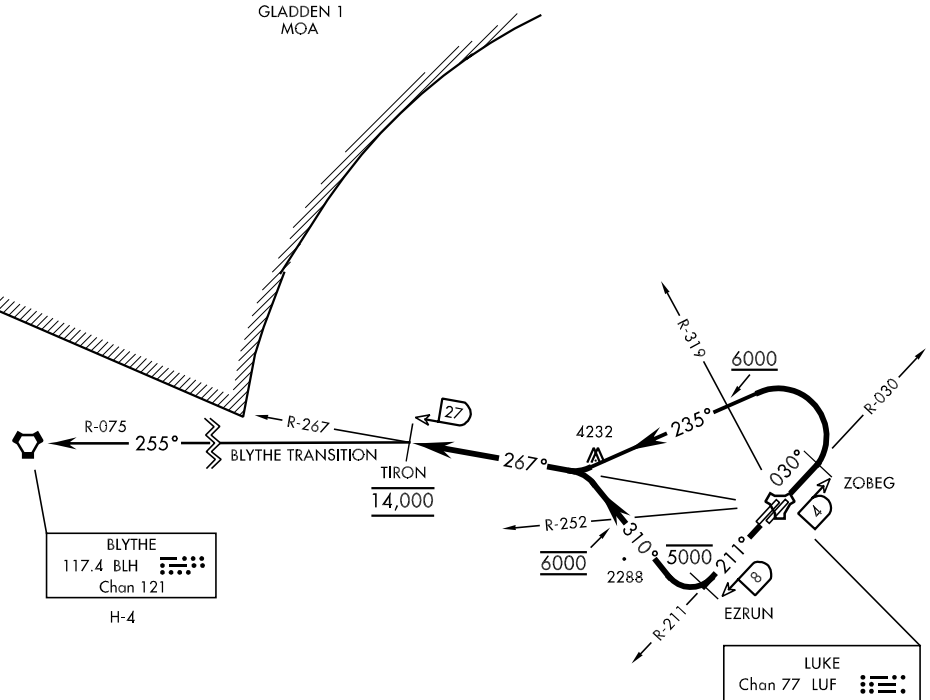
Rwy	Knots	120	180	240	300	360
3 L/R	V/V(fpm)	700	1050	1400	1750	2100
21 L/R	V/V(fpm)	640	960	1280	1600	1920

Minimum Climb Rate from DER to 6000.

Rwy	Knots	120	180	240	300	360
3 L/R	V/V(fpm)	860	1290	1720	2150	2580
21 L/R	V/V(fpm)	910	1360	1810	2260	2720

ATC Climb Rates from DER to 14,000

GLADDEN 1
MOA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3 L/R: Climb tracking 030°. Abeam LUF TACAN R-030/04 DME (ZOBEG) turn left heading 235° to intercept and proceed via LUF R-267 to LUF 27 DME (TIRON). Cross LUF R-319 at or above 6000. Cross TIRON at 14,000 (or as assigned by ATC). Then via assigned route or transition.

TAKE-OFF RWY 21 L/R: Climb tracking 211°. Abeam LUF TACAN R-211/08 DME (EZRUN) turn right heading 310° to intercept and proceed via LUF R-267 to LUF 27 DME (TIRON). Cross abeam EZRUN at or below 5000. Cross LUF R-252 at 6000, Cross TIRON at 14,000 (or as assigned by ATC). Then via assigned route or transition.

BLYTHE TRANSITION (TIRON7•BLH): Via the BLH VORTAC R-075 to BLH.

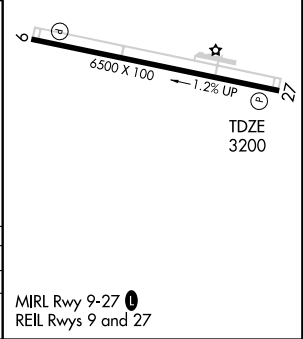
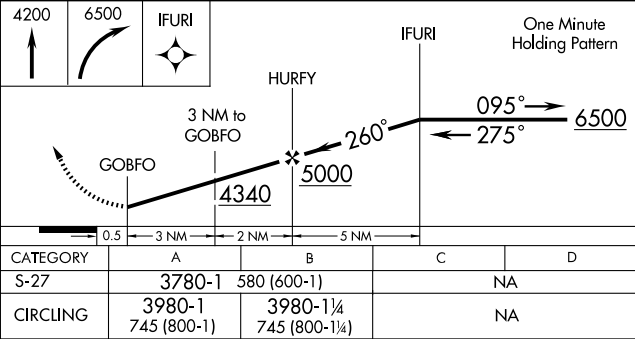
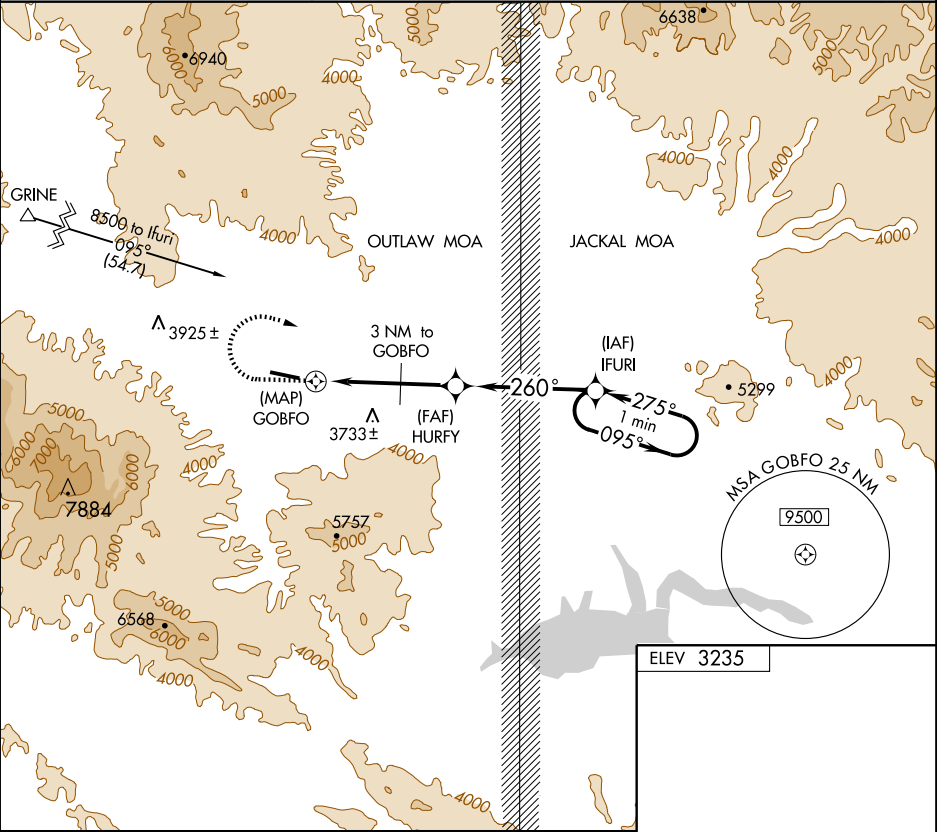
APP CRS	Rwy Idg	6500
260°	TDZE	3200
	Apt Elev	3235

GPS RWY 27

GLOBE/SAN CARLOS APACHE (P13)

NA Obtain local altimeter setting on CTAF; when not received, procedure not authorized.	MISSED APPROACH: Climb to 4200, then climbing right turn to 6500 direct IFURI WP and hold.
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AWOS-3 120.075	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.8 (CTAF) 0
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IZTIR TWO DEPARTURE (RNAV) (OBSTACLE)

ALBUQUERQUE CENTER

125.4 269.3

PRESCOTT RADIO

122.4

△
SALTSTAKE-OFF MINIMUMS

Rwy 9: Standard with minimum climb of 409' per NM to 6900.

Rwy 27: Standard with minimum climb of 370' per NM to 5500.

TAKE-OFF OBSTACLE NOTES

Rwy 9: Numerous trees beginning 566' from DER, 126' right of centerline, up to 40' AGL/3289' MSL.

Rwy 27: Tree 6707' from DER, 958' right of centerline, 40' AGL/3439' MSL.

△
PEAKS

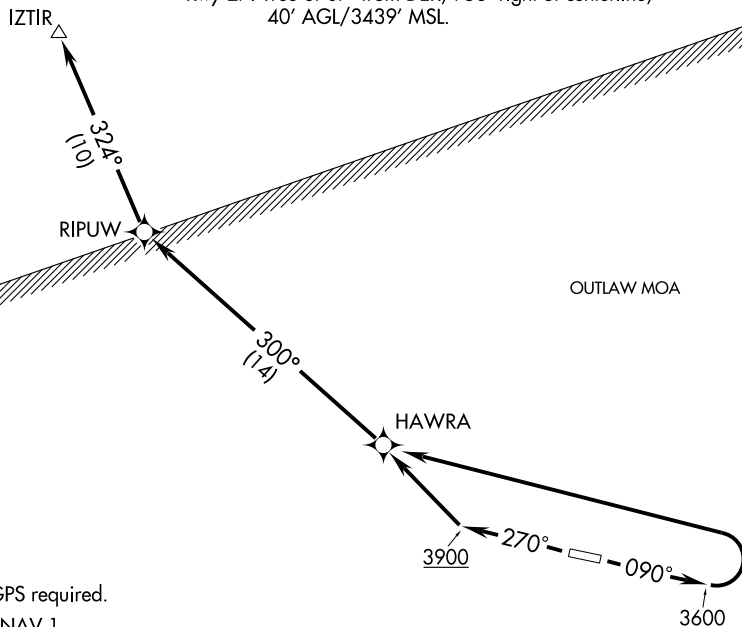
IZTIR

RIPUW

HAWRA

OUTLAW MOA

J
A
C
K
A
L

M
O
A

NOTE: GPS required.

NOTE: RNAV 1

NOTE: When OUTLAW MOA active, cross RIPUW at 7000', then continue climb to MEA/MCA for direction of flight.

NOTE: Take-off Rwy 9/27: Do not exceed 200 KIAS until RIPUW.
Do not exceed 250 KIAS until IZTIR.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTIONTAKE-OFF RUNWAY 9: Climb heading 090° to 3600, then climbing left turn direct HAWRA, then via depicted route to IZTIR. Thence....TAKE-OFF RUNWAY 27: Climb heading 270° to 3900, then climbing right turn direct HAWRA, then via depicted route to IZTIR. Thence....

....climb on course to MEA for assigned route of flight.

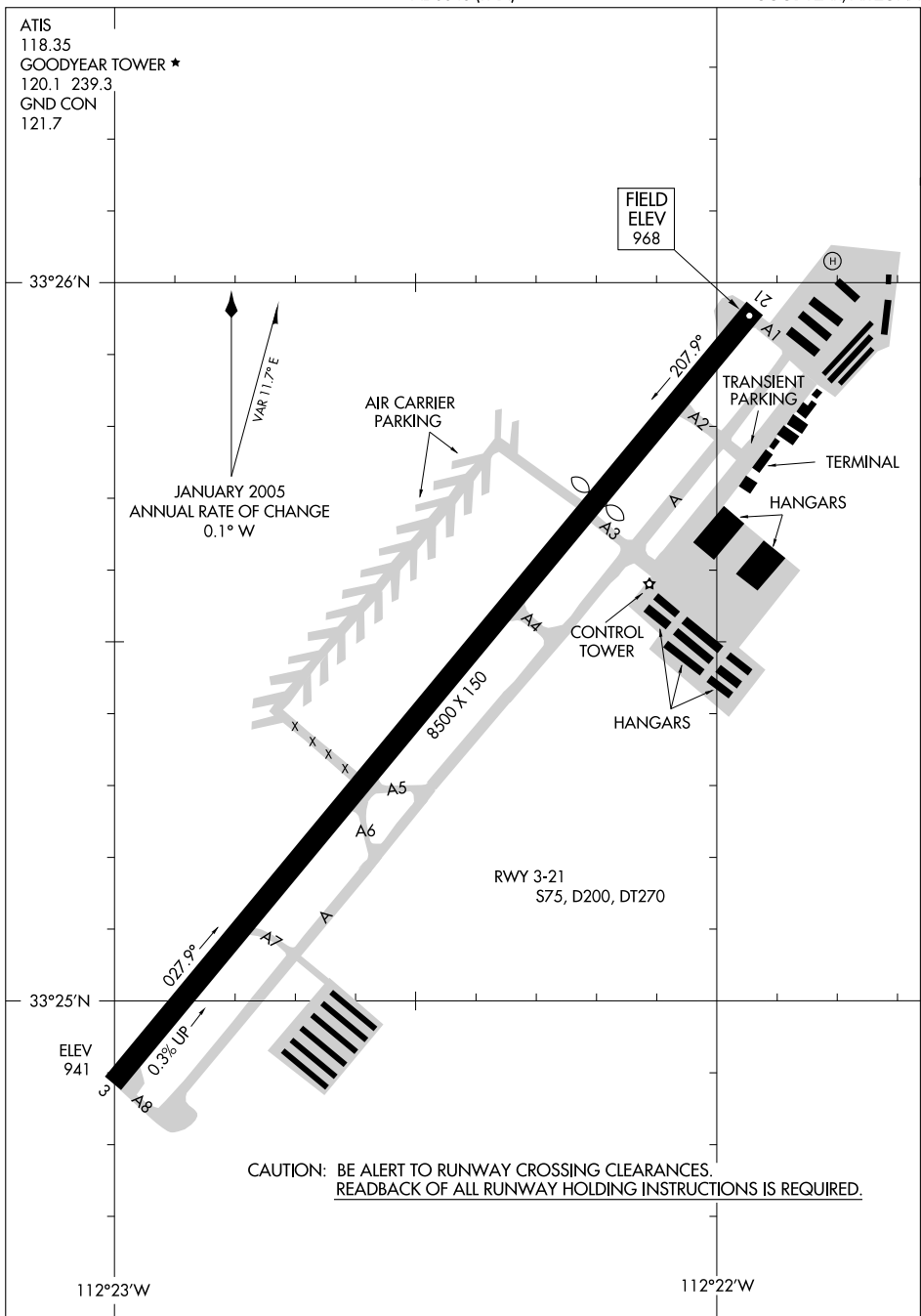
AIRPORT DIAGRAM

AL-6648 (FAA)

GOODYEAR/PHOENIX GOODYEAR (GYR)

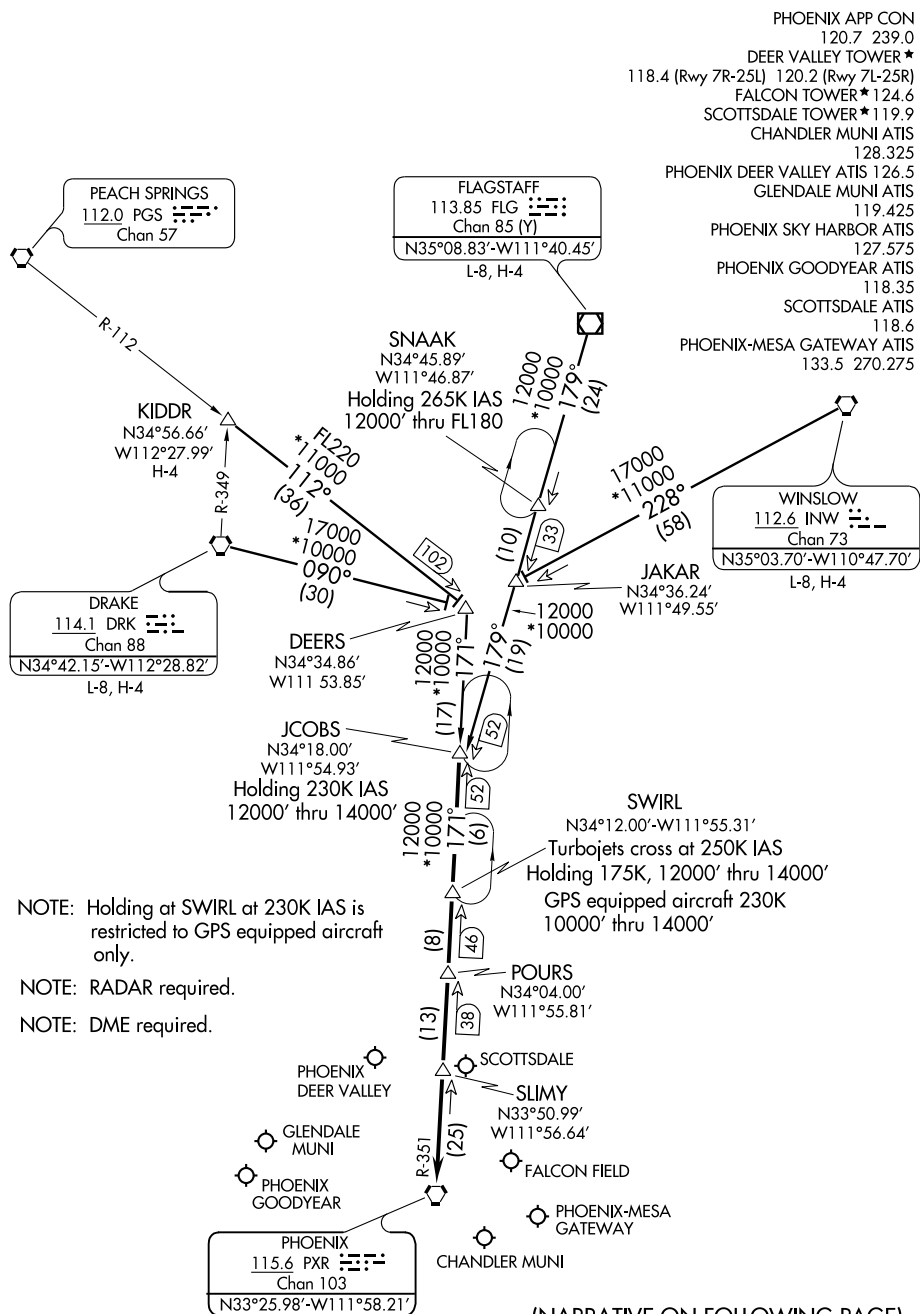
GOODYEAR, ARIZONA

ATIS
118.35
GOODYEAR TOWER ★
120.1 239.3
GND CON
121.7



JCBS TWO ARRIVAL

SCOTTSDALE, ARIZONA



(NARRATIVE ON FOLLOWING PAGE)

JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

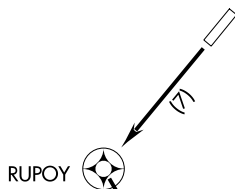
... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

(POTER1.POTER) 08325 SL-6648 (FAA)
POTER ONE DEPARTURE (RNAV) (OBSTACLE)

GOODYEAR/ PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

ATIS 118.35
GND CON 121.7
GOODYEAR TOWER ★
120.1
LUKE DEP CON★
125.45



TAKE-OFF MINIMUMS

Rwy 3: Not authorized-ATC.
Rwy 21: Standard.

NOTE: 1. GPS Required
2. RNAV 1

△ POTER



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 21: Climb to 8000 direct RUPOY and via 137° track to POTER.

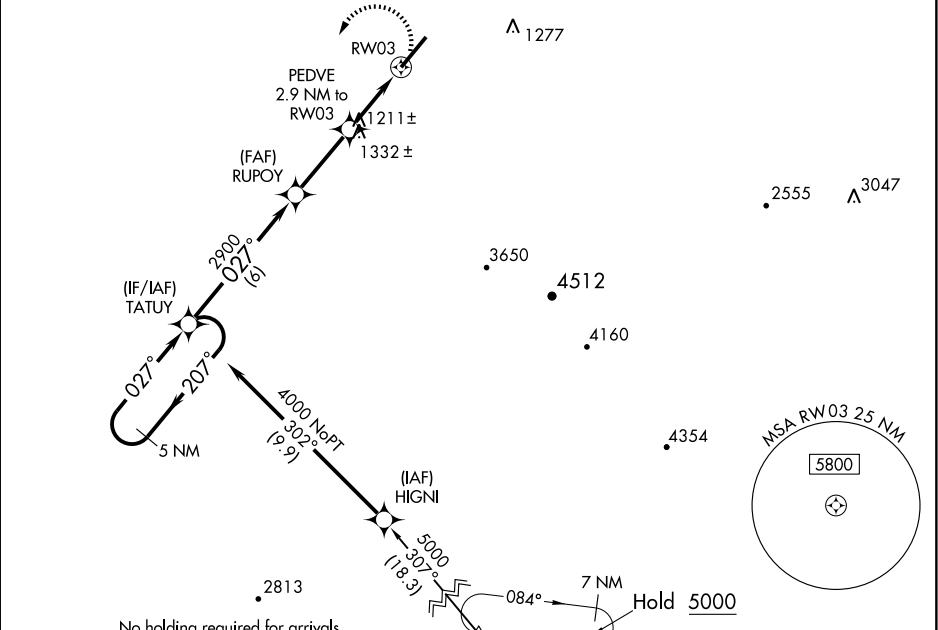
Procedure NA at night. DME/DME RNP -0.3 NA.

When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting.

VDP NA when using Phoenix Sky Harbor Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 4000 direct TATUY and hold.

ATIS 118.35	LUKE APP CON * 125.45 263.125	GOODYEAR TOWER * 120.1 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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at POTER via V35 westbound.

POTER

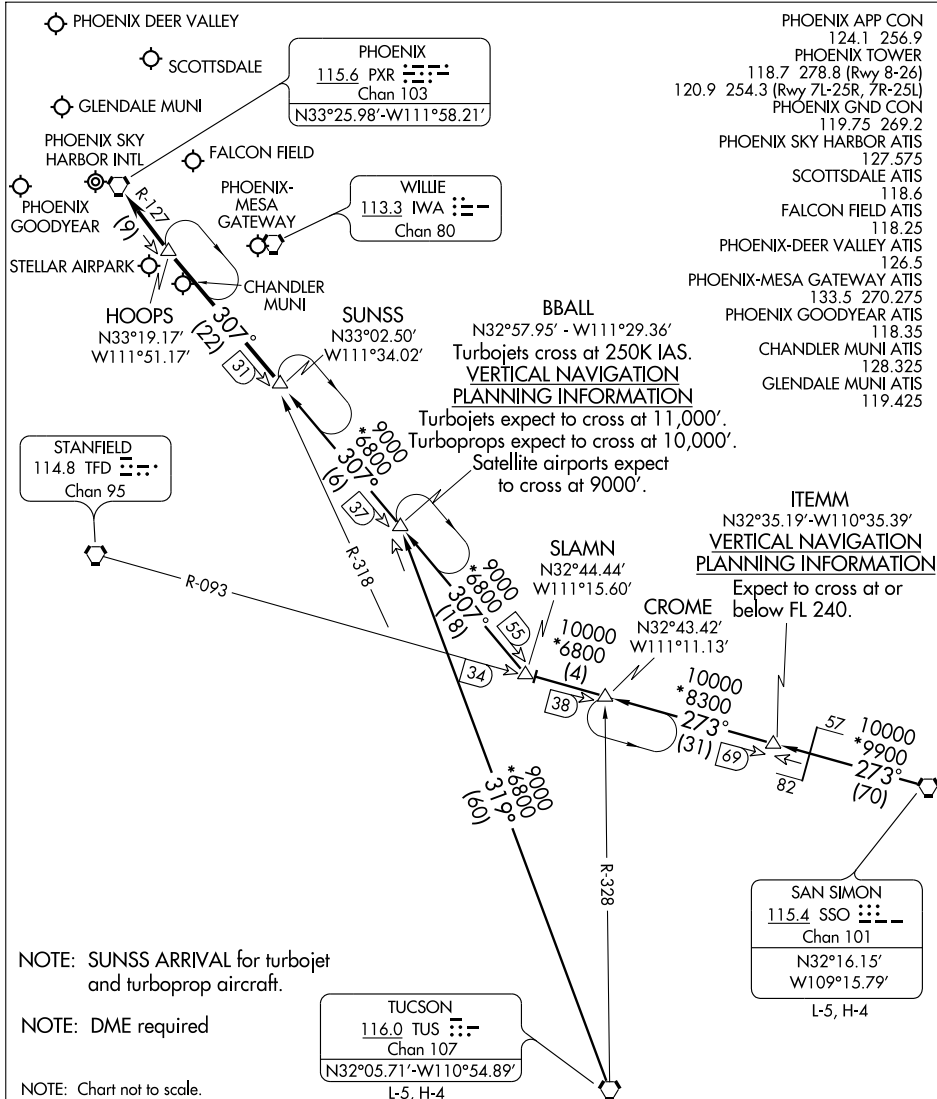
ELEV 968

CATEGORY	A	B	C	D
LNAV MDA	1480-1	527 (600-1)	1480-1½ 527 (600-1½)	1480-1¾ 527 (600-1¾)
CIRCLING	1480-1	512 (600-1)	1480-1½ 512 (600-1½)	1620-2 652 (700-2)

PHOENIX SKY HARBOR INTL ALTIMETER SETTING MINIMUMS

LNAV MDA	1540-1	587 (600-1)	1540-1½ 587 (600-1½)	1540-1¾ 587 (600-1¾)
CIRCLING	1540-1	572 (600-1)	1540-1½ 572 (600-1½)	1680-2¼ 712 (800-2¼)

REIL Rws 3 and 21
MIRL Rwy 3-21



SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

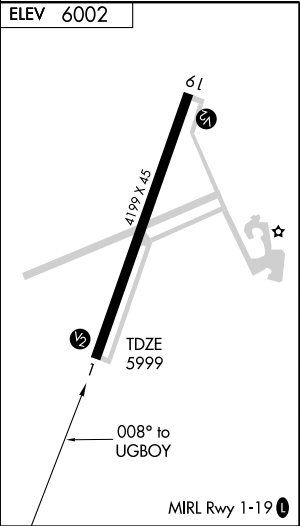
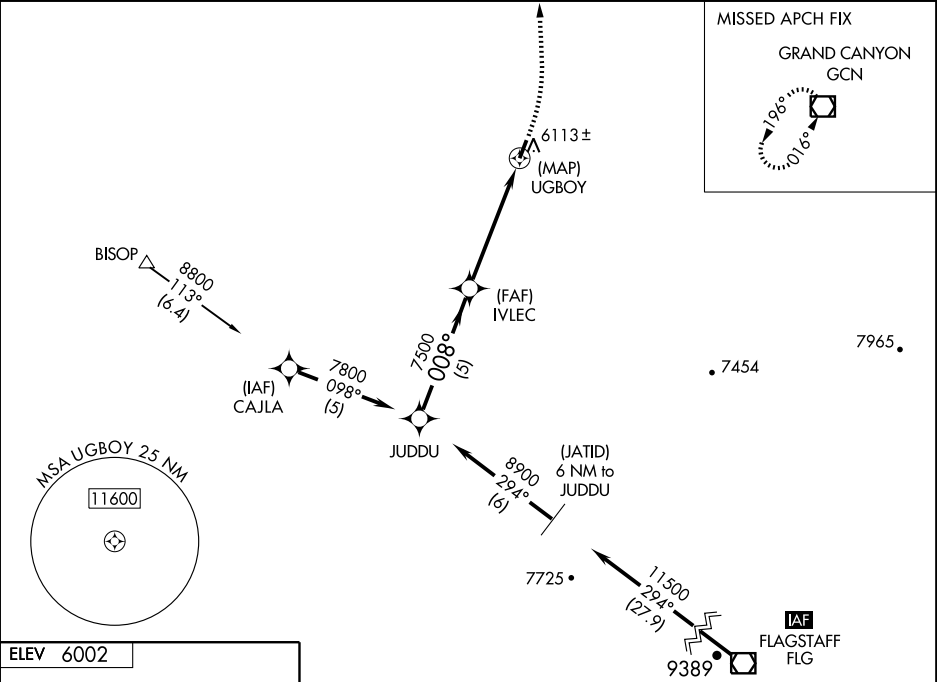
....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

APP CRS 008°	Rwy Idg TDZE Apt Elev	4199 5999 6002
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GPS RWY 1
GRAND CANYON/ VALLE (40G)

NA IAF ARM APPROACH MODE PRIOR TO IAF. Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized.	MISSED APPROACH: Climbing left turn to 10000 direct to GCN VOR/DME and hold.
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LOS ANGELES CENTER 124.85 319.2	UNICOM 122.8 (CTAF) 0
---	---------------------------------



JUDDU		IVLEC		10000	GCN
7800		008°		UGBOY	
5 NM		5 NM			
CATEGORY	A	B	C	D	
S-1	6480-1	481 (500-1)	6480-1¼ 481 (500-1¼)	NA	
CIRCLING	6480-1	478 (500-1)	6500-1½ 498 (500-1½)	NA	
GRAND CANYON NATIONAL PARK ALTIMETER SETTING MINIMUMS					
S-1	6620-1	621 (700-1)	6620-1¾ 621 (700-1¾)	NA	
CIRCLING	6620-1	618 (700-1)	6640-1¾ 638 (700-1¾)	NA	

APP CRS
188°

Rwy Idg	4199
TDZE	5996
Apt Elev	6002

GPS RWY 19

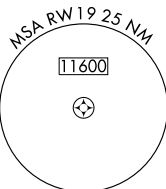
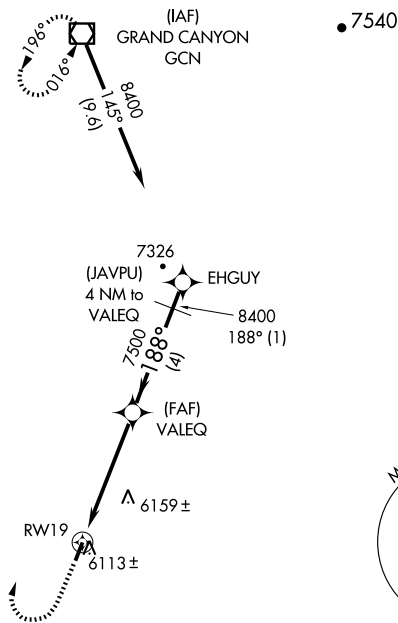
GRAND CANYON/ VALLE (40G)

A NA Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized.

MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct GCN VOR/DME and hold.

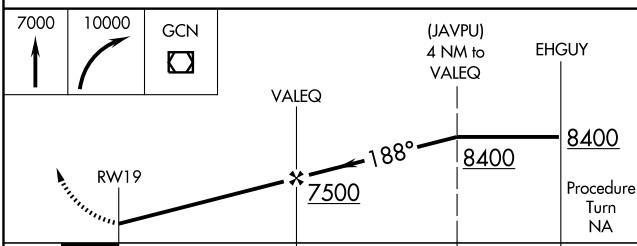
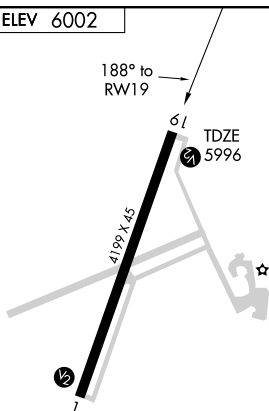
LOS ANGELES CENTER
124.85 319.2

UNICOM
122.8 (CTAF) **L**



SW-4. 14 JAN 2010 to 11 FEB 2010

ELEV 6002



	5 NM		4 NM		1 NM		
CATEGORY	A		B		C		D
S-19	6420-1 424 (500-1)				6420-1¼ 424 (500-1¼)		NA
CIRCLING	6480-1 478 (500-1)				6500-1½ 498 (500-1½)		NA
GRAND CANYON NATIONAL PARK ALTIMETER SETTING MINIMUMS							
S-19	6540-1 544 (600-1)				6540-1½ 544 (600-1½)		NA
CIRCLING	6620-1 618 (700-1)				6640-1¾ 638 (700-1¾)		NA

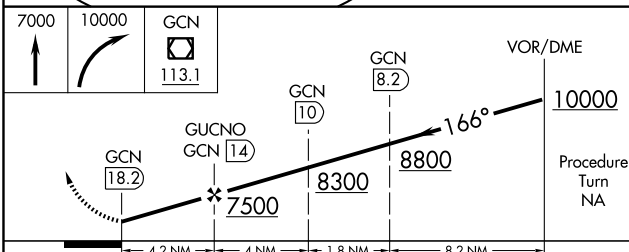
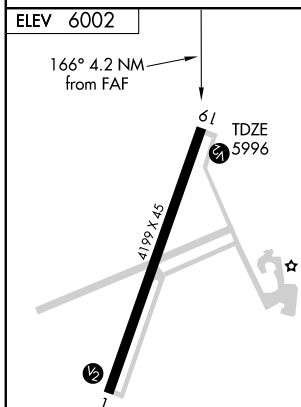
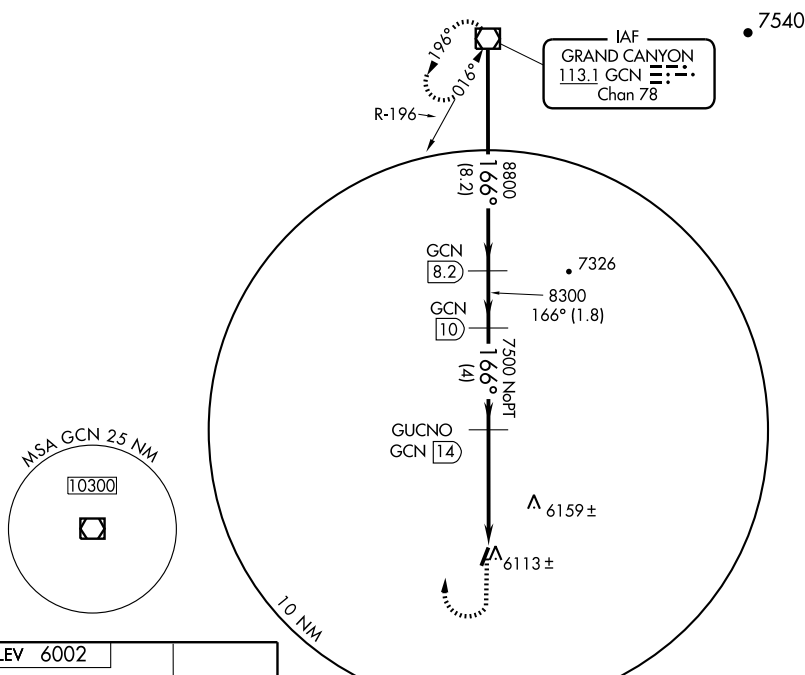
VOR/DME GCN <u>113.1</u> Chgn 78	APP CRS 166°	Rwy Idg 4199 TDZE 5996 Apt Elev 6002
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VOR/DME RWY 19
GRAND CANYON/ VALLE (40G)

A Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized.

MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct GCN VOR/DME and hold.

LOS ANGELES CENTER
124.85 319.2

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
S-19	6420-1	424 (500-1)	6420-1 $\frac{1}{4}$ 424 (500-1 $\frac{1}{4}$)	NA
CIRCLING	6480-1	478 (500-1)	6500-1 $\frac{1}{2}$ 498 (500-1 $\frac{1}{2}$)	NA
GRAND CANYON NATIONAL PARK ALTIMETER SETTING MINIMUMS				
S-19	6540-1	544 (600-1)	6540-1 $\frac{1}{2}$ 544 (600-1 $\frac{1}{2}$)	NA
CIRCLING	6620-1	618 (700-1)	6640-1 $\frac{3}{4}$ 638 (700-1 $\frac{3}{4}$)	NA

MIRL Rwy 1-19 L

AIRPORT DIAGRAM

AL-5381 (FAA)

GRAND CANYON NATIONAL PARK (GCN)

GRAND CANYON, ARIZONA

ATIS 124.3
CANYON TOWER*
119.0
GND CON
121.9

35°58'N

VAR 12.1° E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

FIELD
ELEV
6609

TRANSIENT
PARKINGFIRE
STATION

TERMINAL

GENERAL
AVIATION
PARKING

6756

■ CONTROL
TOWER

35°57'N

ELEV
6533

028.6°
0.7% UP

8999 X 150

RWY 3-21

S88, D108, ST137, DT160

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

112°09'W

112°08'W

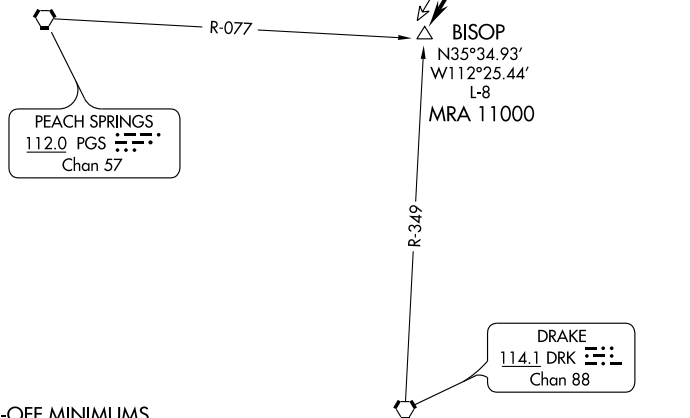
GRAND TWO DEPARTURE (OBSTACLE)

ATIS 124.3
GND CON
121.9
CANYON TOWER ★
119.0
ALBUQUERQUE CENTER
128.45 298.9
LOS ANGELES CENTER
124.85 319.2
UNICOM 122.95

GRAND CANYON
113.1 GCN 
Chan 78

TAKEOFF OBSTACLE NOTES

RWY 21: Multiple bushes and trees beginning 269' from DER, 499' left of centerline, up to 70' AGL/6691' MSL.
Multiple trees beginning 2831' from DER, 843' right of centerline, up to 70' AGL/6628' MSL.



TAKE-OFF MINIMUMS

Rwy 3, NA.

Rwy 21: 200-1¼ or standard with minimum climb of 234' per NM to 7000', or alternatively, with standard takeoff minimums and normal 200 feet/NM climb gradient, takeoff must occur no later than 1800 feet prior to departure end of runway.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: NA.

TAKE-OFF RUNWAY 21: Climb heading 207° to 7000', then turn left heading 175° to intercept GCN R-196 to BISOP INT. Expect filed altitude 10 minutes after departure.

ILS or LOC/DME RWY 3
GRAND CANYON NATIONAL PARK (GCN)

T DME from GCN VOR/DME. Simultaneous reception of I-GCN
A and GCN DME required.
Inoperative table does not apply to S-LOC 3 CAT C.

MALS

MISSED APPROACH: Climb to 10000 direct GCN
VOR/DME and hold.

GRAND CANYON
113.1 GCN 78
Chan 78

LOCALIZER 108.9
I-GCN

9000 to Carms
204° (12)

R-239

9000 NoPT
GCN 12

IR-214

8200
027°
(5.9)

HAPLY
GCN 6.1

6709±

198°
016°

(IAF) CARMs
GCN 12

027°
1 min
207°

114.1 DRK
R-349
Chan 88

9000 NoPT
GCN 20.6

027°
(8.8)

(IAF) SAVRE
GCN 20.6

207°

10 NM

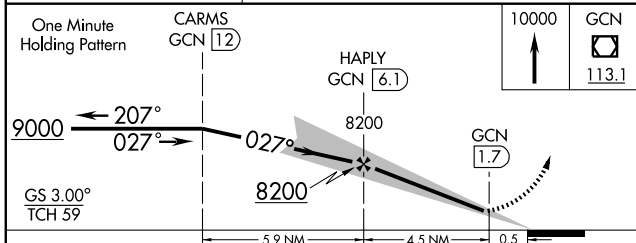
MSA GCN 25 NM

10500

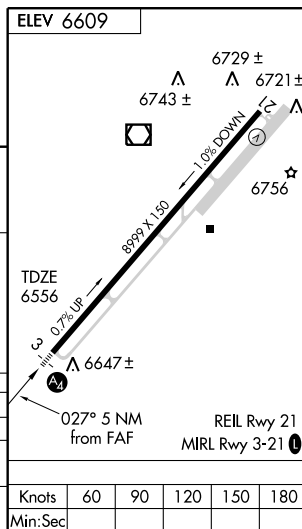
080° → ← 260°

9200

DME REQUIRED

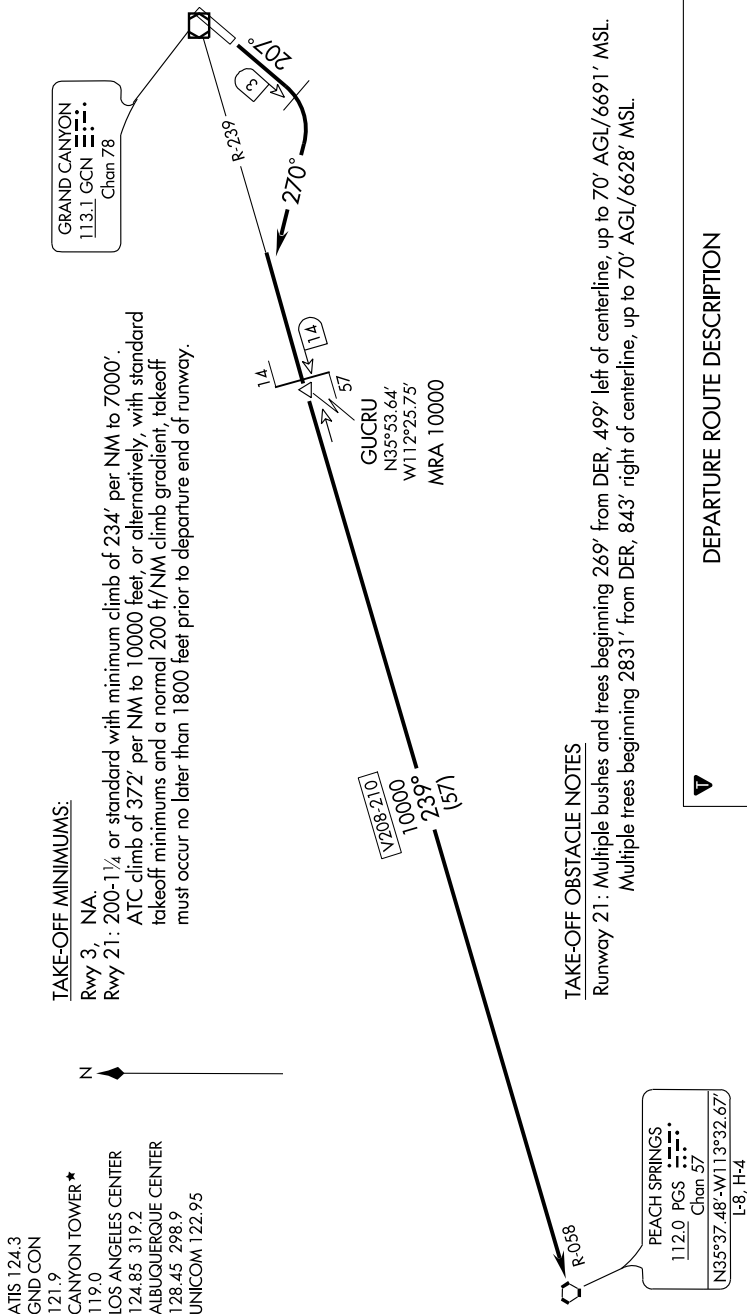


CATEGORY	A	B	C	D
S-ILS 3	6765- $\frac{3}{4}$		209 (200- $\frac{3}{4}$)	
S-LOC 3	6960- $\frac{3}{4}$ 404 (400- $\frac{3}{4}$)		6960-1 $\frac{1}{4}$ 404 (400-1 $\frac{1}{4}$)	
CIRCLING	7140-1 531 (600-1)		7160-1 $\frac{1}{2}$ 551 (600-1 $\frac{1}{2}$)	7220-2 611 (700-2)



PARKS TWO DEPARTURE

SL-5381 (FAA)

GRAND CANYON NATIONAL PARK (GCN)
GRAND CANYON, ARIZONA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: NA

TAKE-OFF RUNWAY 21: Climb heading 207° until GCN 3 DME, then turn right heading 270° to intercept GCN R-239 to GUCRU/GCN 14 DME at or above 10000' then via V208-210 to PGS VORTAC. Expect filed altitude 10 minutes after departure.

NOTE: DME required.
NOTE: Chart not to scale.

APP CRS	Rwy Idg	8999
027°	TDZE	6556
	Apt Elev	6609

RNAV (GPS) RWY 3
GRAND CANYON NATIONAL PARK (GCN)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Baro-VNAV NA below -28°C (-18°F).

Inoperative table does not apply to LNAV Cat C.

MALS

MISSED APPROACH: Climb to 10000 direct GCN
VOR/DME and hold.

ATIS 124.3	LOS ANGELES CENTER 124.85 319.2	CANYON TOWER★ 119.0 (CTAF) 1	GND CON 121.9	UNICOM 122.95
---------------	------------------------------------	---------------------------------	------------------	------------------

4 NM Holding Pattern					10000	GCN
9000 ← 207° / 027° →					↑	
GS 3.00° TCH 59					☐	
CARMS					* 1.2 NM to RW03	
HAPLY					* LNAV only	
8200					RW03	
5.9 NM					1.2	
CATEGORY	A	B	C	D		
GLS PA DA	NA					
LNAV/VNAV DA	6960-1½ 404 (400-1½)					
LNAV MDA	6960-¾ 404 (400-¾)		6960-1¼ 404 (400-1¼)			
CIRCLING	7140-1½ 531 (600-1½)		7160-1½ 551 (600-1½)		7220-2 611 (700-2)	

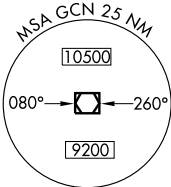
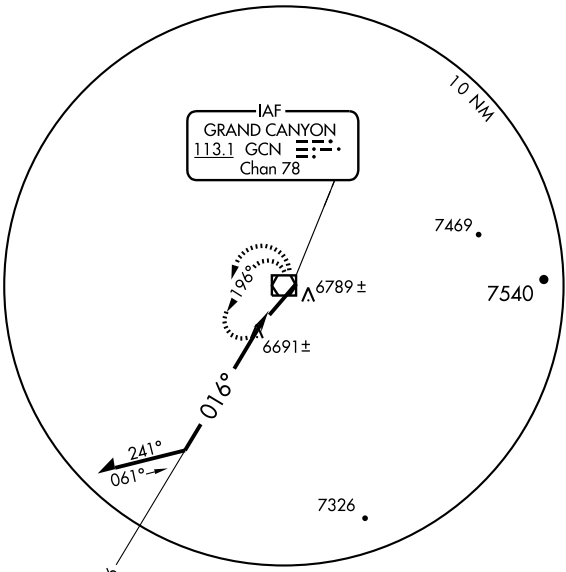
SW-4, 14 JAN 2010 to 11 FEB 2010

VOR RWY 3

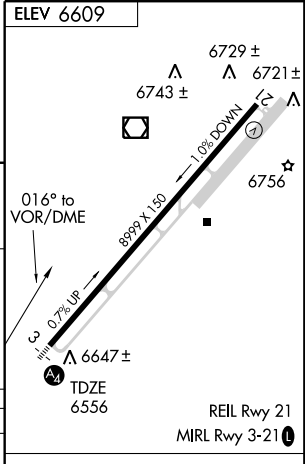
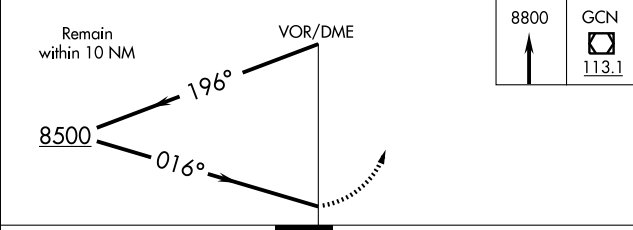
GRAND CANYON NATIONAL PARK (GCN)

VOR/DME GCN	APP CRS	Rwy Idg
113.1	016°	8999
Chan 78		TDZE 6556
		Apt Elev 6609

Inoperative table does not apply to S-3 Cat C.		MALS 	MISSED APPROACH: Climb to 8800 in GCN VOR/DME holding pattern.	
ATIS 124.3	LOS ANGELES CENTER 124.85 319.2	CANYON TOWER ★ 119.0 (CTAF) 0	GND CON 121.9	UNICOM 122.95



Descend in GCN VOR/DME holding pattern to 11000 before commencing procedure turn.



CATEGORY	A	B	C	D
S-3	7100-3/4 544 (600-3/4)		7100-1 1/2 544 (600-1 1/2)	7100-1 3/4 544 (600-1 3/4)
CIRCLING	7140-1 531 (600-1)		7160-1 1/2 551 (600-1 1/2)	7220-2 611 (700-2)

Knots	60	90	120	150	180
Min:Sec					

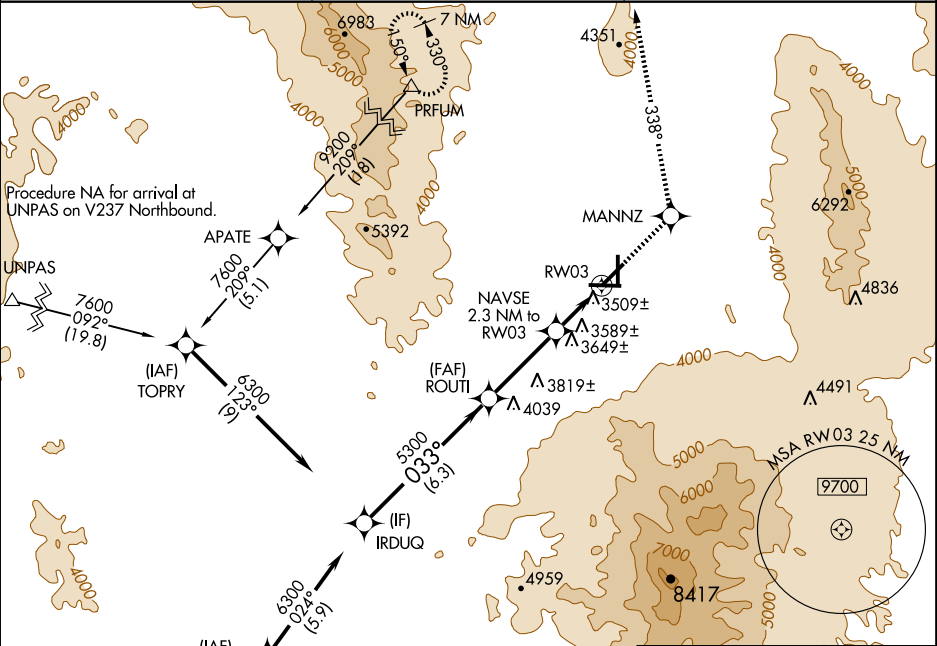
WAAS CH 86312 W03A	APP CRS 033°	Rwy Idg TDZE Apt Elev	6827 3412 3449
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RNAV (GPS) RWY 3
KINGMAN (IGM)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 42°C (107°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9000 direct MANNZ and via track 338° to PRFUM and hold, continue climb-in-hold to 9000.

ASOS 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF)
------------------------	---------------------------------	-------------------------------



Procedure Turn NA

IRDUQ

6300

033°

GS 3.00° TCH 45

5300

ROUTI

NAVSE 2.3 NM to RW03

*4180

RW03

9000

MANNZ

338° TRK

PRFUM

*LNAV only

6.3 NM

3.4 NM

2.3 NM

CATEGORY	A	B	C	D
LPV DA		3713-1	301 (400-1)	
LNAV/VNAV DA		3952-2	540 (600-2)	
LNAV MDA	3840-1	428 (500-1)	3840-1½ 428 (500-1½)	3840-1½ 428 (500-1½)
CIRCLING	3980-1 531 (600-1)	4020-1 571 (600-1)	4020-1½ 571 (600-1½)	4140-2½ 691 (700-2½)

ELEV 3449

033° to RW03

REIL Rwy 3 and 21

MIRL Rwy 3-21 and 17-35

▼

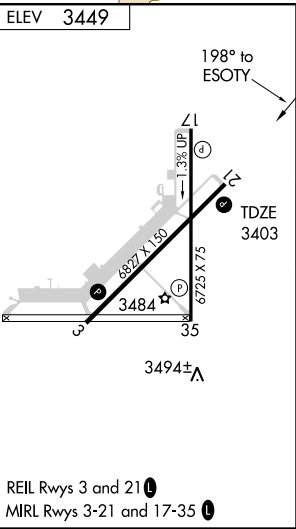
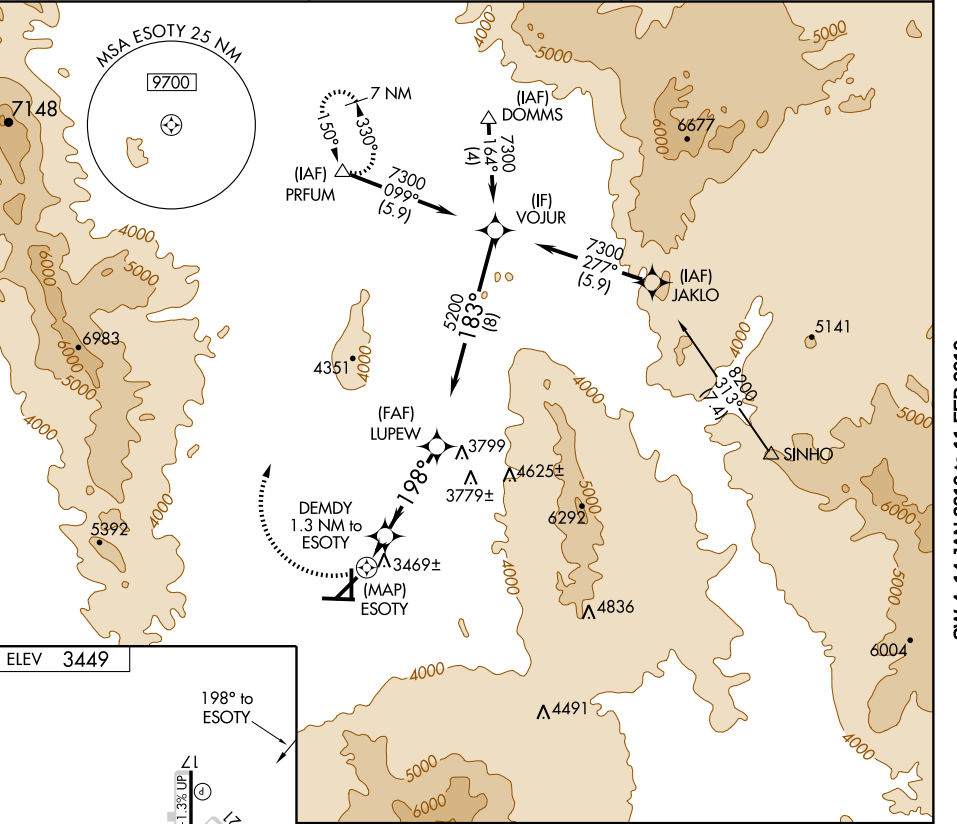
DME/DME RNP-0.3 NA.

▲

Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 9000 direct PRFUM and hold, continue climb-in-hold to 9000.

ASOS 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF) 0
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9000	PRFUM	DEMDY 1.3 NM to ESOTY	LUPEW	VOJUR
△	△	ESOTY	4000	7300
		198°	183°	Procedure Turn NA
		1.3 NM	3.7 NM	8 NM
CATEGORY	A	B	C	D
LNAV MDA	3820-1	417 (500-1)	3820-1¼	417 (500-1¼)
CIRCLING	3980-1 531 (600-1)	4020-1 571 (600-1)	4020-1½ 571 (600-1½)	4140-2¼ 691 (700-2¼)

REIL Rwy 3 and 21 0
MIRL Rwy 3-21 and 17-35 0

▼

▲

Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 6000 via IGM VOR/DME R-208 then climbing right turn to 9000 direct IGM VOR/DME and hold.

ASOS 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF) 0
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MSA IGM 25 NM

8400

075° → 255°

9700

116.7 BLD Chan 114

R-108

8300 NoPT to Edwrd Int 190° (12.6)

(IAF) MILK1 IGM 29.3

IGM R-010

8300 NoPT 226° (13.8)

IAF PEACH SPRINGS 112.0 PCS Chan 57

6697

3235

190°

(IF/IAF) EDWRD INT IGM 16.7

8300 to Edwrd Int 010° (4.5)

7000 190° (4.5)

R-226

TRUXE INT IGM 12.2

5900 190° (4.2)

AHGAW IGM 8

4351

3697

10 NM

5141

6292

4836

3519±

ALRAY IGM 3.7

8300 to Edwrd Int 010° (16.7)

R-207

KINGMAN 108.8 IGM Chan 25

6983

5392

ELEV 3449

190° 7.7 NM from FAF

1.3% UP

6827 X 150

6725 X 75

3484

35

3494±

TDZE 3403

6000	9000	IGM	
IGM R-208		108.8	

ALRAY IGM 3.7

≤ 3.00° TCH 45

4540

5900

7000

8300

010°

8300

EDWRD INT IGM 16.7

Remain within 10 NM

TRUXE INT IGM 12.2

AHGAW IGM 8

3.4 NM

4.3 NM

4.2 NM

4.5 NM

CATEGORY	A	B	C	D
S-21	3880-1	477 (500-1)	3880-1¼ 477 (500-1¼)	3880-1½ 477 (500-1½)
CIRCLING	3980-1 531 (600-1)	4020-1 571 (600-1)	4020-1½ 571 (600-1½)	4140-2¼ 691 (700-2¼)

MIRL Rwy 3-21 and 17-35 0

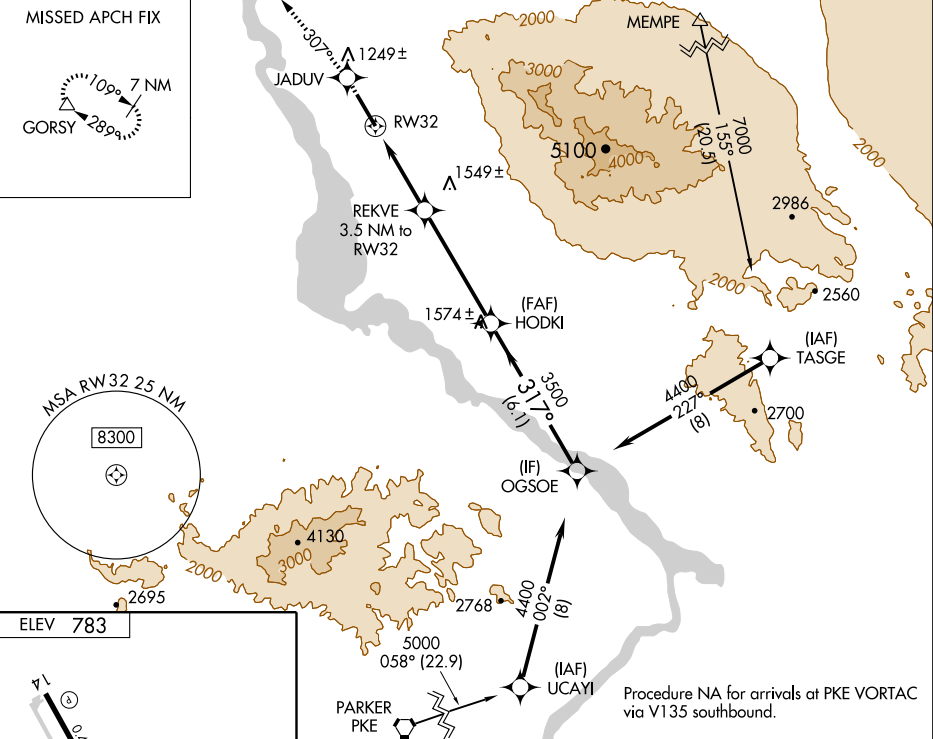
REIL Rwy 3 and 21 0

SW-4, 14 JAN 2010 to 11 FEB 2010

NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Needles altimeter setting and increase all DA/MDA 80 feet and all visibilities ½ mile. VDP NA when using Needles altimeter setting. Circling NA northeast of Rwy 14-32.

MISSED APPROACH: Climb to 6300 direct JADUV and via 307° track to GORSY and hold, continue climb-in-hold to 6300.

AWOS-3 119.025 364	LOS ANGELES CENTER 134.65 314.2	UNICOM 122.7 (CTAF) 1
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6300 ↑		JADUV ✦	307° track		GORSY △	VGSI and RNAV glidepath not coincident.			
*LNAV only			REKVE 3.5 NM to RW32		HODKI	Procedure Turn NA		OGSOE	
RW32		*2.6 NM to RW32		1940*	✖	3500		4400	
-2.6 NM		0.9	4.7 NM		6.1 NM		GS 3.00° TCH 50		
CATEGORY		A		B		C		D	
LPV	DA	1265-1¾		482 (500-1¾)					
LNAV MDA		1660-1 877 (900-1)	1660-1¼ 877 (900-1¼)	1660-2½ 877 (900-2½)	1660-2¾ 877 (900-2¾)				
CIRCLING		1660-1 877 (900-1)	1660-1¼ 877 (900-1¼)	1660-2½ 877 (900-2½)	1660-2¾ 877 (900-2¾)				

VORTAC EED 115.2 Chan 99	APP CRS 139°	Rwy Idg TDZE Apt Elev	N/A N/A 783
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VOR/DME or GPS-A
LAKE HAVASU CITY (HII)

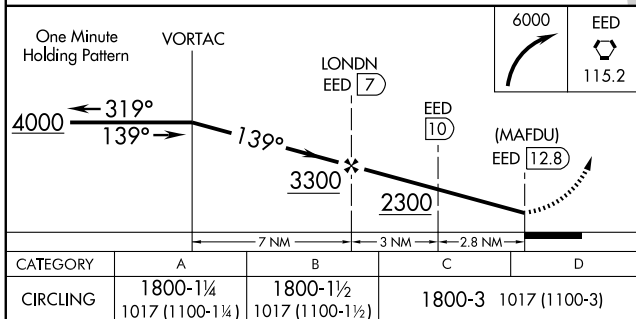
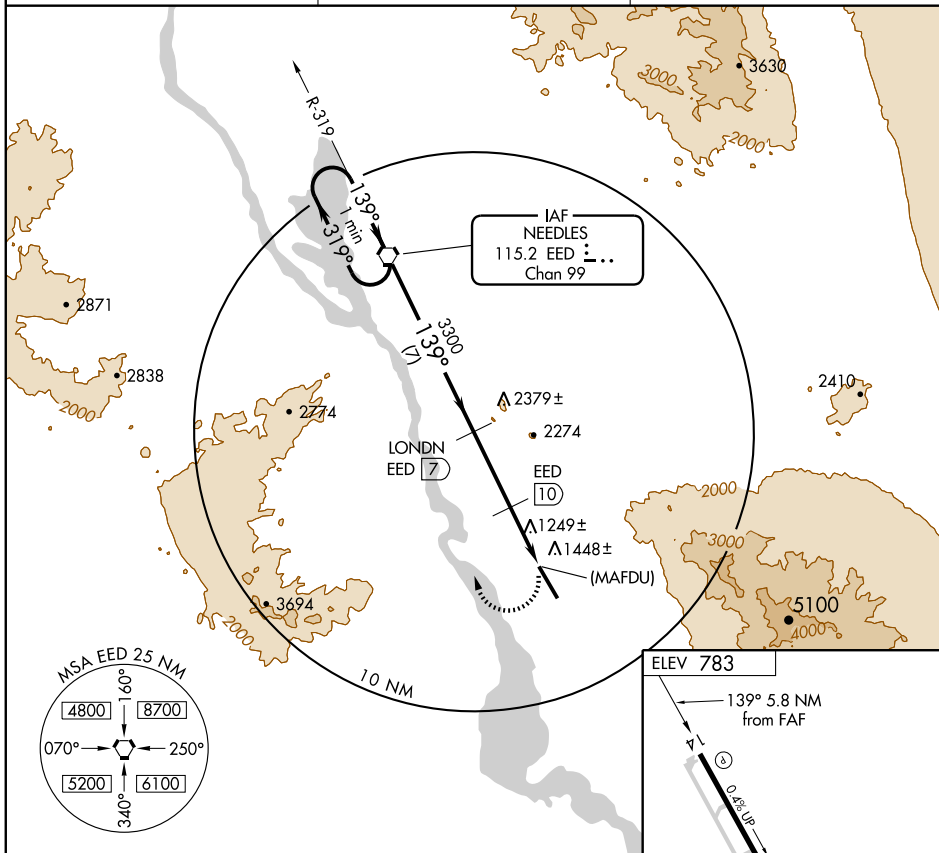


Circling not authorized northeast of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 6000 direct EED VORTAC and hold.

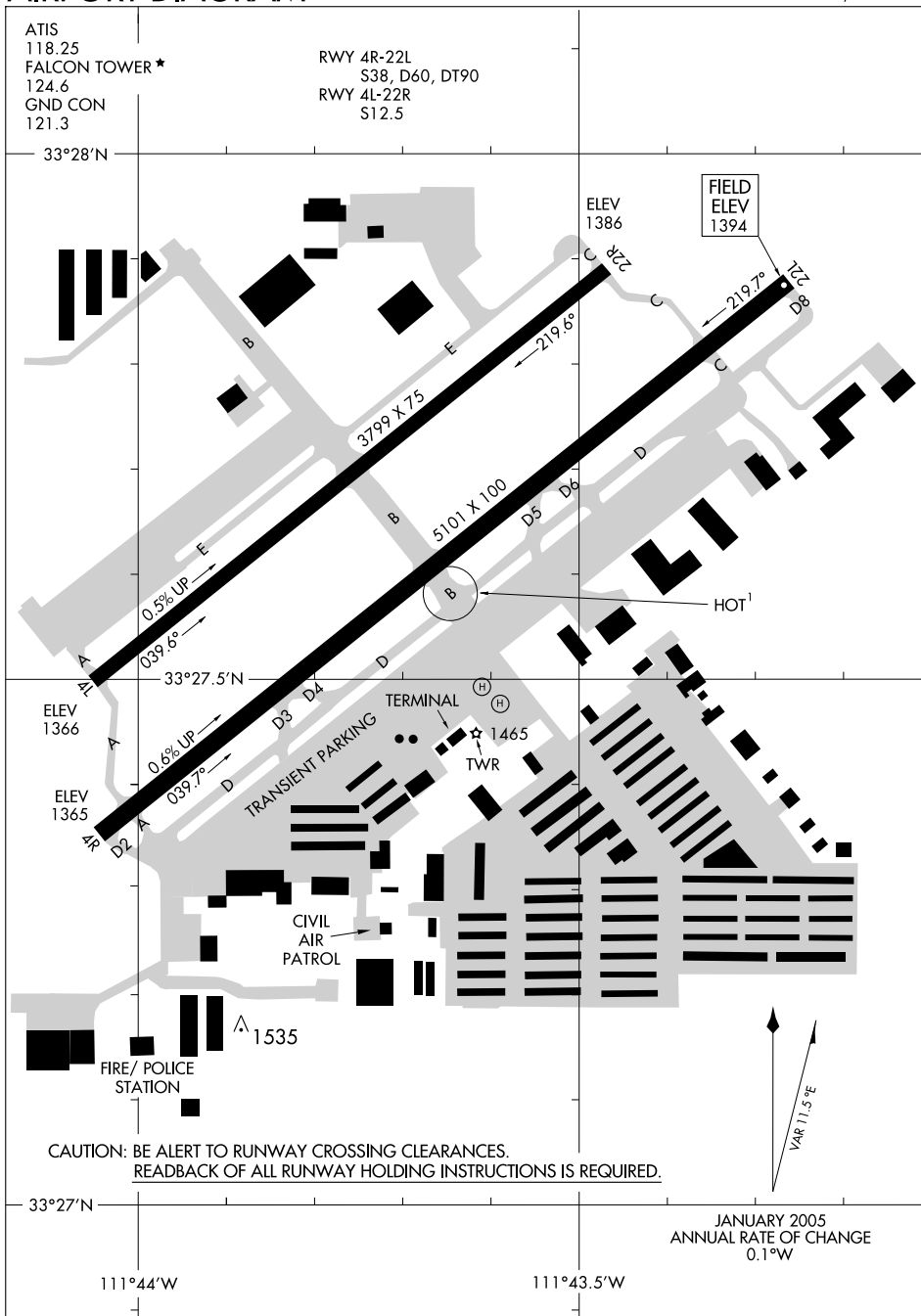
AWOS-3
119.025 364

LOS ANGELES CENTER
134.65 314.2

UNICOM
122.7 (CTAF) **L**

REIL Rwy 14 and 32
MIRL Rwy 14-32 **L**

AIRPORT DIAGRAM



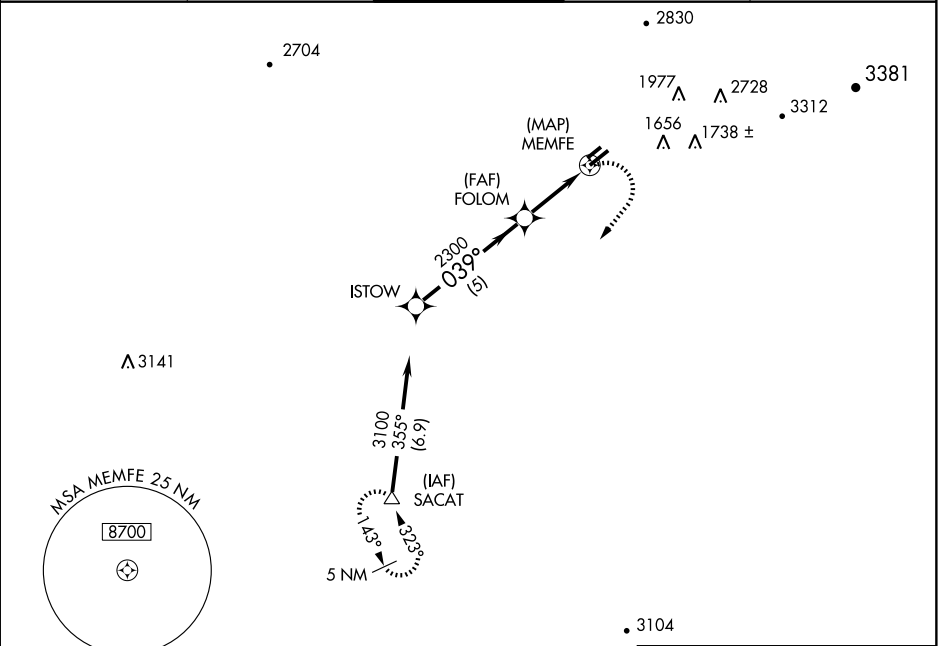
APP CRS	Rwy Idg	5101
039°	TDZE	1381
	Apt Elev	1392

GPS RWY 4R
MESA/FALCON FIELD (F'F'Z)

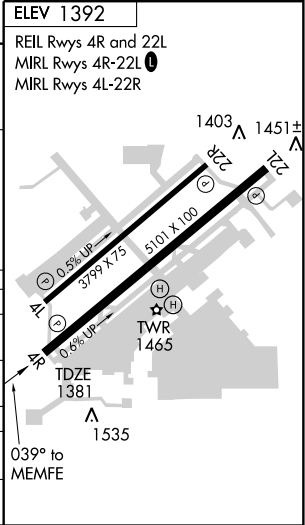
When control tower closed, use Phoenix Sky Harbor
altimeter setting.

MISSED APPROACH: Climbing right turn to 5000 direct SACAT
WP and hold.

ATIS 118.25	PHOENIX APP CON 120.7 239.0	FALCON TOWER ★ 124.6 (CTAF)	GND CON 121.3	UNICOM 122.95
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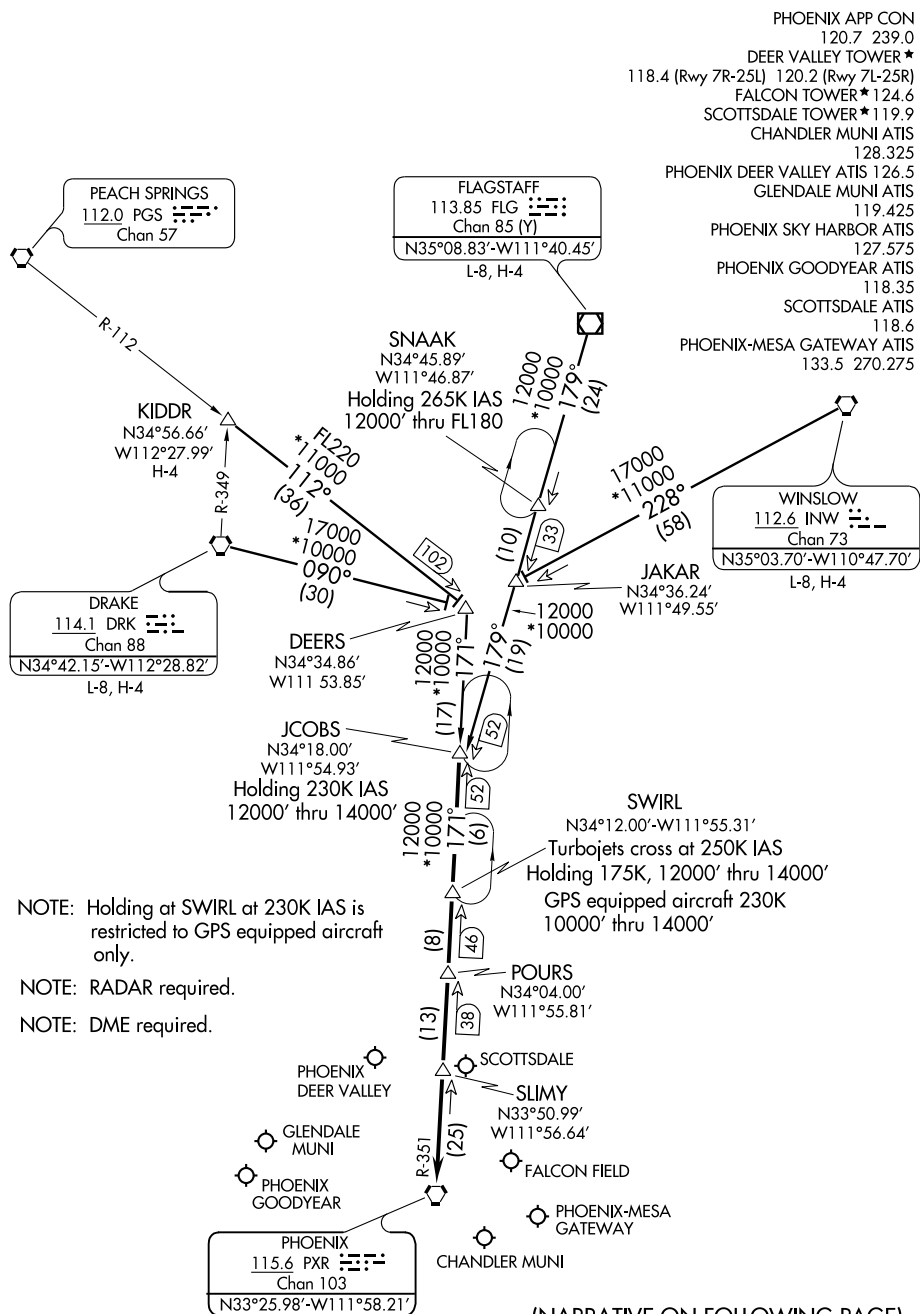


ISTOW 3100 039° FOLOM 2300 MEMFE 5000 SACAT △ Procedure Turn NA 5 NM 3 NM				
CATEGORY	A	B	C	D
S-4R	1800-1	419 (500-1)	1800-1¼ 419 (500-1¼)	NA
CIRCLING	1860-1	468 (500-1)	1860-1½ 468 (500-1½)	NA
PHOENIX SKY HARBOR ALTIMETER SETTING MINIMUMS				
S-4R	1860-1	479 (500-1)	1860-1¼ 479 (500-1¼)	NA
CIRCLING	1940-1	548 (600-1)	1940-1½ 548 (600-1½)	NA



JCBS TWO ARRIVAL

SCOTTSDALE, ARIZONA



(NARRATIVE ON FOLLOWING PAGE)

JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

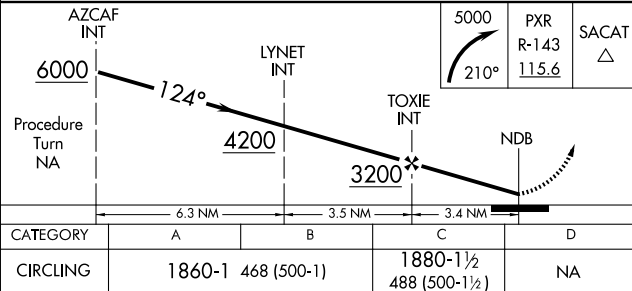
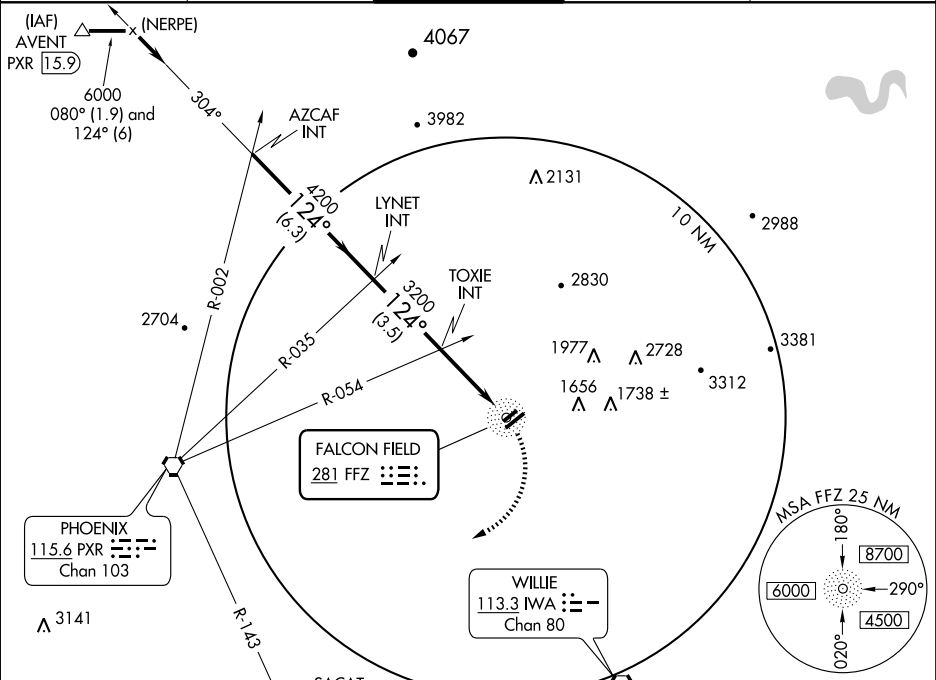
NDB FFZ 281	APP CRS 124°	Rwy Idg TDZE Apt Elev N/A 1392
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NDB or GPS-A
MESA/FALCON FIELD (F'F'Z)

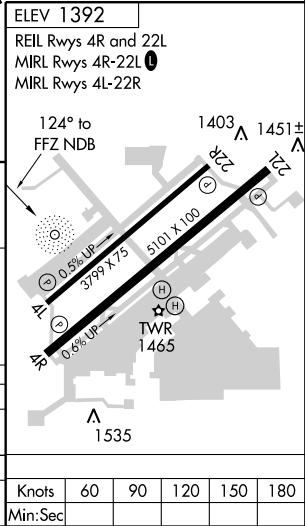
When local altimeter setting not received, use Phoenix Sky Harbor altimeter setting minimums.

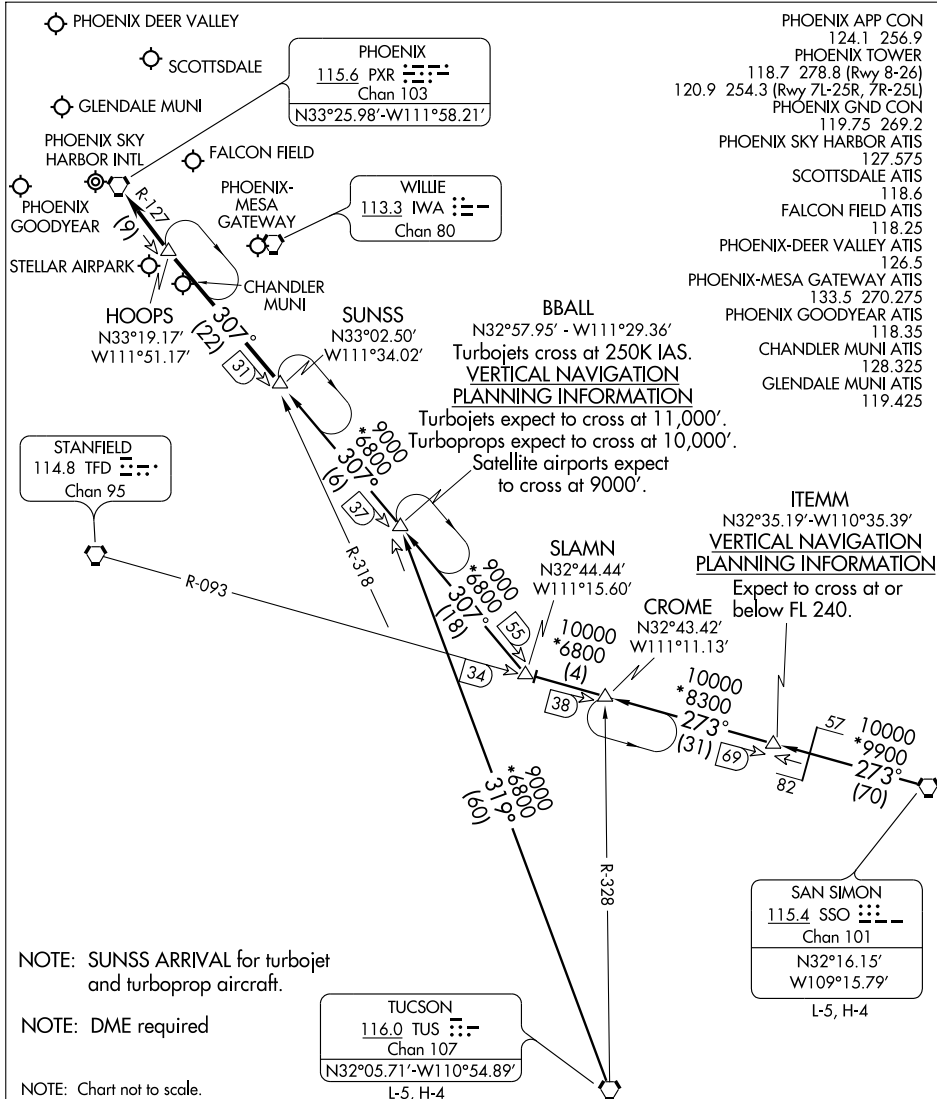
MISSED APPROACH: Climbing right turn to 5000 via heading 210° and PXR R-143 to SACAT Int/PXR 11.6 DME and hold.

ATIS 118.25	PHOENIX APP CON 120.7 239.0	FALCON TOWER ★ 124.6 (CTAF)	GND CON 121.3	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	1860-1	468 (500-1)	1880-1½ 488 (500-1½)	NA
PHOENIX SKY HARBOR ALTIMETER SETTING MINIMUMS				
CIRCLING	1920-1	528 (600-1)	1940-1½ 548 (600-1½)	NA





SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

NDB or GPS-C

NOGALES INTL (OLS)

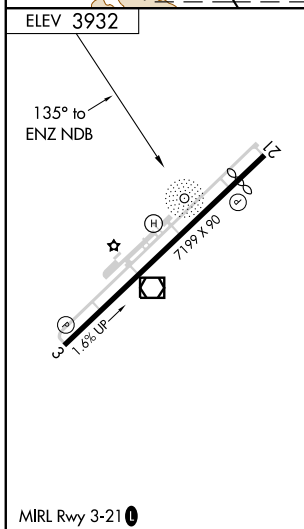
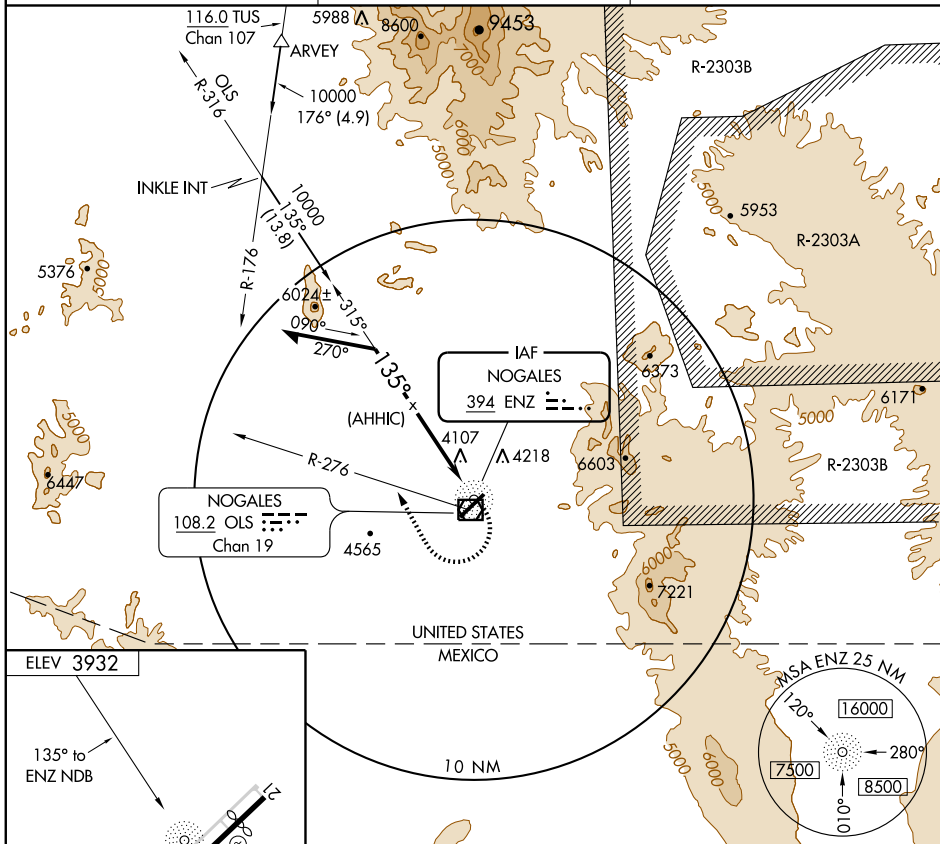
NDB ENZ 394	APP CRS 135°	Rwy Idg TDZE Apt Elev N/A N/A 3932
-----------------------	------------------------	--



NA

MISSED APPROACH: Climbing right turn to 8300 via OLS VOR/DME R-276 then climbing right turn to 10000 direct OLS VOR/DME.

ASOS 121.125	TUCSON APP CON 125.1 269.55	UNICOM 122.8 (CTAF)
------------------------	---------------------------------------	-------------------------------



Remain within 10 NM NDB 315° 7500 (AHHIC) 135° 4 NM			
8300 10000 OLS OLS R-276 R-276 108.2			
CATEGORY	A	B	C D
CIRCLING	6580-1¼ 2648 (2700-1¼)	6580-1½ 2648 (2700-1½)	6580-3 2648 (2700-3)

NOGALES ONE DEPARTURE (OBSTACLE)

TUCSON
116.0 TUS
Chan 107
N32°05.71'-W110°54.89'
L-5, H-4

ASOS 121.125
TUCSON DEP CON
125.1 269.55
UNICOM
122.8 (CTAF)

TAKE-OFF MINIMUMS

Rwy 3: 300-1¼ with minimum climb of 335' per NM to 7000 or 1300-3 for climb in visual conditions.

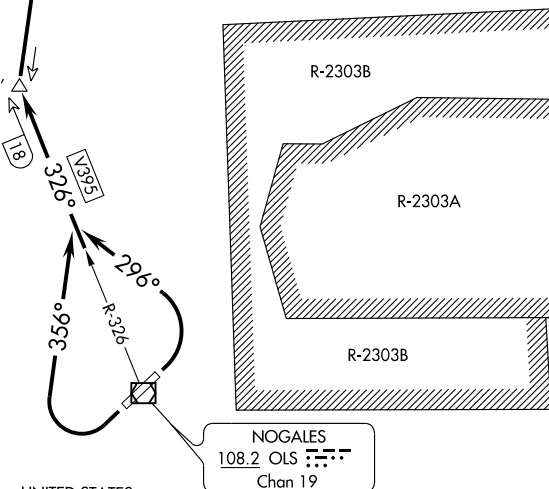
Rwy 21: Standard with minimum climb of 350' per NM to 7000 or 1300-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees and bushes beginning 123' from DER, 88' right of centerline, 98' AGL/4253' MSL. Trees and poles beginning 335' from DER, 13' left of centerline, up to 67' AGL/4087' MSL.

Rwy 21: Bush 117' from DER, 49' right of centerline, 5' AGL/3842' MSL. Bush 119' from DER, 201' left of centerline, up to 5' AGL/3844' MSL.

ARVEY
N31°41.64'
W110°58.85'



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climbing left turn heading 296° to intercept OLS VOR/DME R-326 to ARVEY INT/OLS 18 DME, or for climb in visual conditions cross Nogales Intl airport at or above 5100' then climb via OLS R-326 to ARVEY, Thence....

TAKE-OFF RUNWAY 21: Climbing right turn heading 356° to intercept OLS VOR/DME R-326 to ARVEY INT/OLS 18 DME, or for climb in visual conditions cross Nogales Intl airport above 5100' then climb via OLS R-326 to ARVEY, thence....

...via TUS VORTAC R-176 to cross TUS VORTAC at or above MEA/MCA for assigned route of flight.

NOGALES, ARIZONA

AL-6151 (FAA)

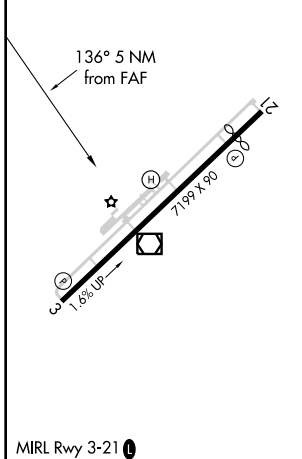
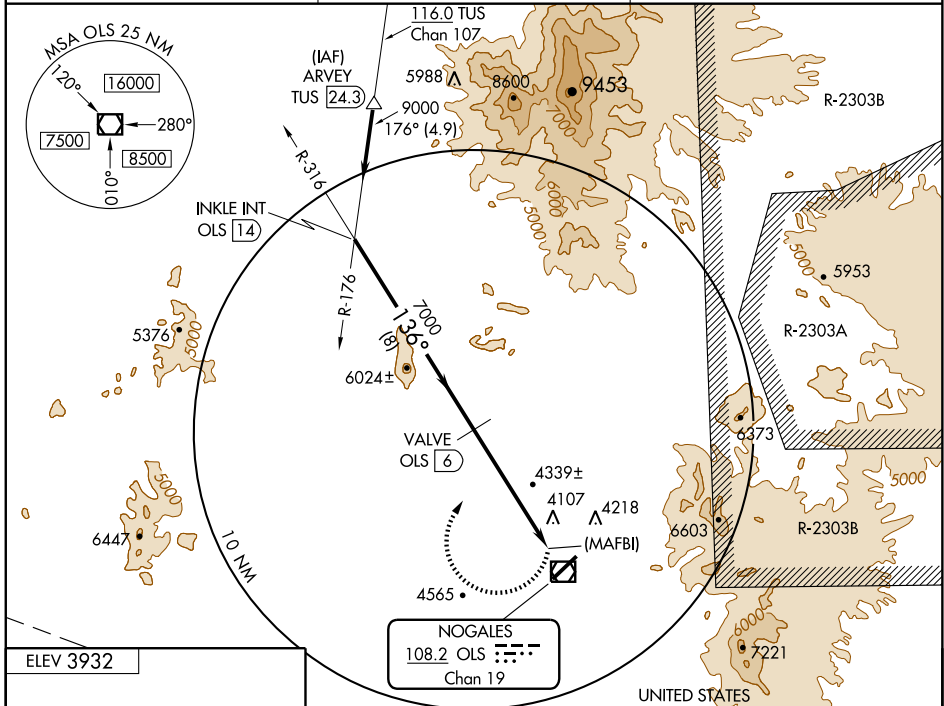
VOR/DME OLS 108.2 Chan 19	APP CRS 136°	Rwy Idg TDZE Apt Elev N/A N/A 3932
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VOR/DME or GPS-B

NOGALES INTL (OLS)

NA	MISSED APPROACH: Climbing right turn to 7600 via OLS R-316 then climbing left turn to 10000 direct OLS VOR/DME.
----	--

ASOS 121.125	TUCSON APP CON 125.1 269.55	UNICOM 122.8 (CTAF)
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MEXICO				
INKLE INT OLS 14 9000 VALVE OLS 6 7000 (MAFBI) OLS 1 7600 10000 OLS 108.2				
Procedure Turn NA 136° 8 NM 5 NM				
CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1268 (1300-1¼)	5200-1½ 1268 (1300-1½)	5200-3	1268 (1300-3)

SW-4, 14 JAN 2010 to 11 FEB 2010

MIRL Rwy 3-21

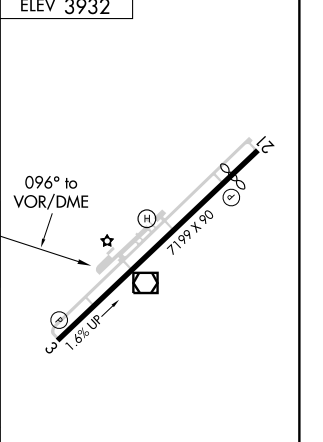
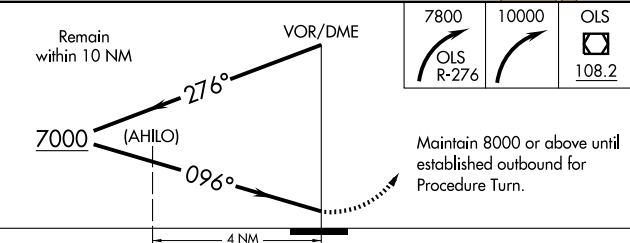
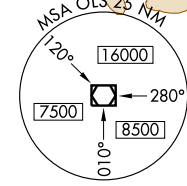
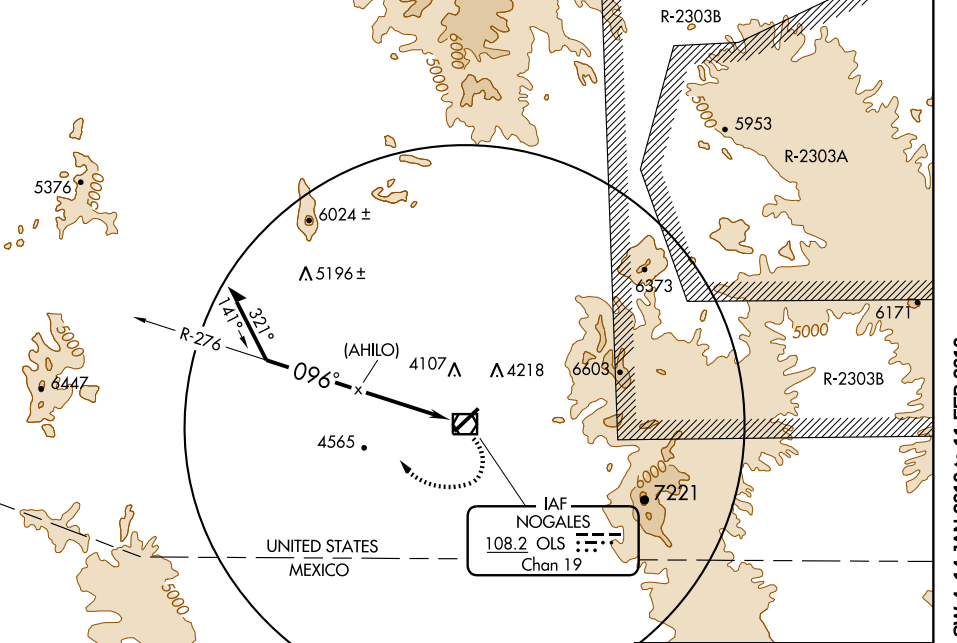
VOR/DME OLS 108.2 Chan 19	APP CRS 096°	Rwy Idg TDZE Apt Elev N/A 3932
---	------------------------	--

▼

▲ NA

MISSED APPROACH: Climbing right turn to 7800 via OLS R-276 then dimbing right turn to 10000 direct OLS VOR/DME.

ASOS 121.125	TUCSON APP CON 125.1 269.55	UNICOM 122.8 (CTAF) ①
------------------------	---------------------------------------	---------------------------------



CATEGORY	A	B	C	D
CIRCLING	5500-1¼ 1568 (1600-1¼)	5500-1½ 1568 (1600-1½)	5500-3 1568 (1600-3)	

MIRL Rwy 3-21 ①

SW-4, 14 JAN 2010 to 11 FEB 2010

WAAS

CH 45604

W15A

APP CRS

156°

Rwy Idg

5950

TDZE

4264

Apt Elev

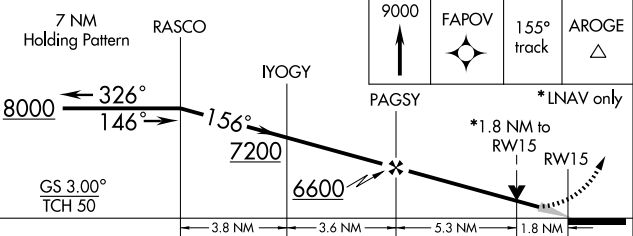
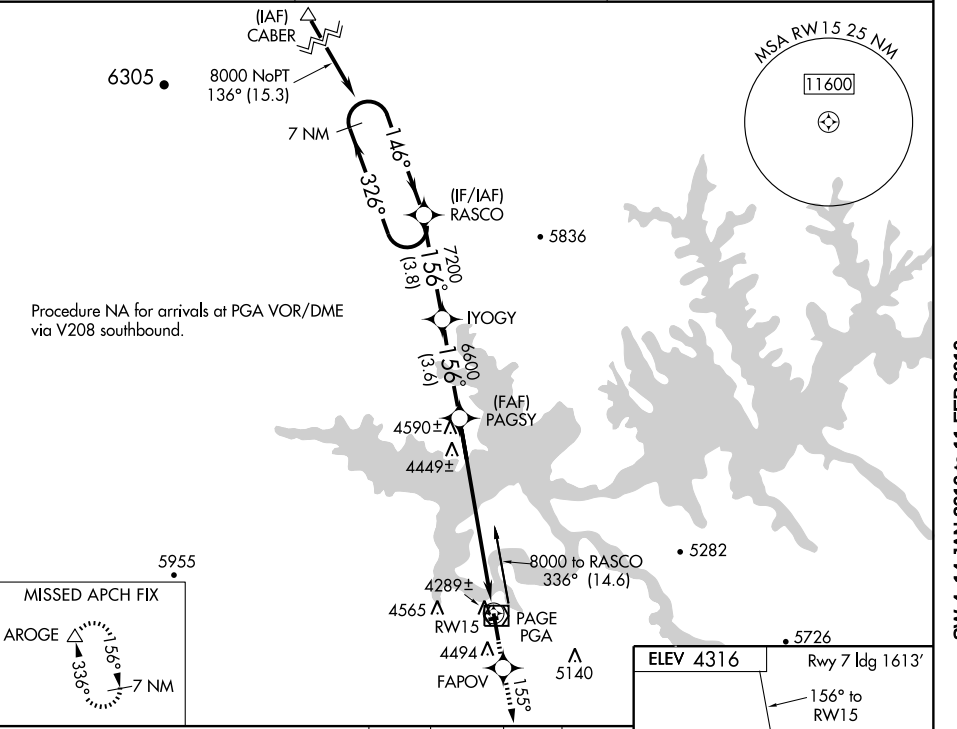
4316

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 41°C (105° F).

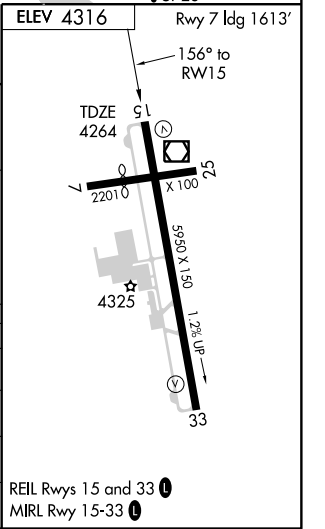
DME/DME RNP -0.3 NA. Circling NA to Rwy 7-25

MISSED APPROACH: Climb to 9000 direct FAPOV and via 155° track to AROGE and hold, continue climb-in-hold to 9000.

ASOS 120.625	DENVER CENTER 127.55 343.95	UNICOM 122.8 (CTAF) 1
-----------------	--------------------------------	--------------------------



CATEGORY	A	B	C	D
LPV DA		4599-1¼	335 (300-1¼)	
LNAV/VNAV DA		4670-1½	406 (400-1½)	
LNAV MDA	4860-1	596 (600-1)	4860-1½ 596 (600-1½)	4860-1¾ 596 (600-1¾)
CIRCLING	4860-1	544 (600-1)	4860-1½ 544 (600-1½)	4920-2 604 (700-2)



RNAV (GPS) RWY 33

PAGE MUNI (PGA)

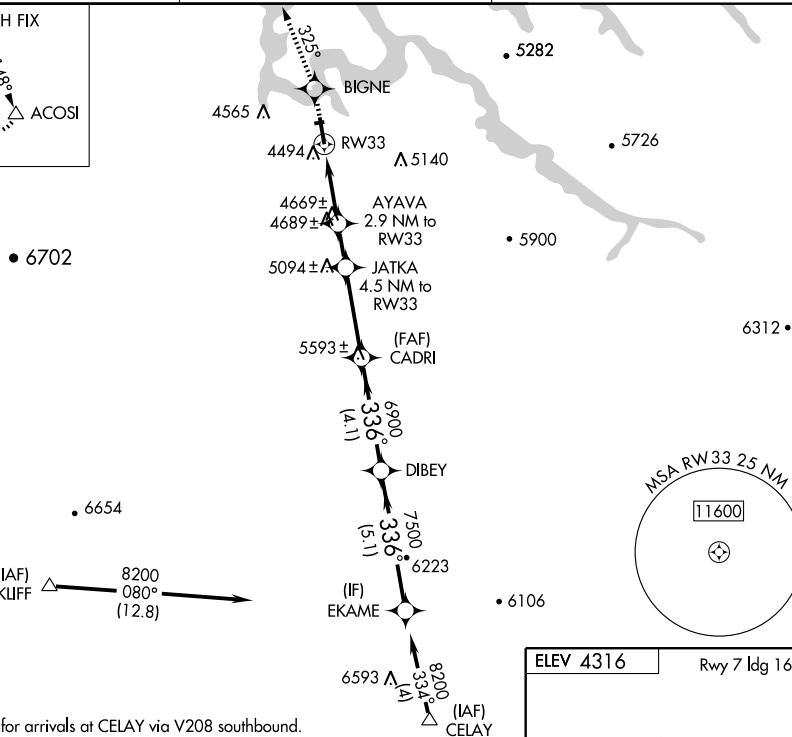
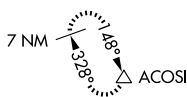
WAAS CH 69204 W33A	APP CRS 336°	Rwy Idg 5950 TDZE 4316 Apt Elev 4316
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T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 41°C (105°F).
DME/DME RNP-0.3 NA. Circling NA to Rwy 7-25.

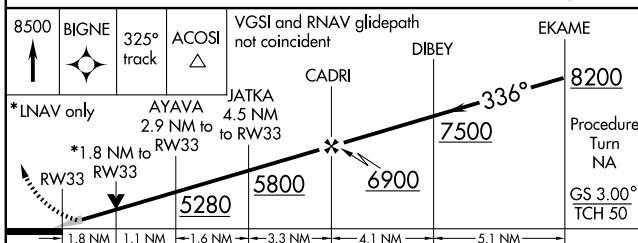
MISSED APPROACH: Climb to 8500 direct BIGNE and via 325° track to ACOSI and hold, continue climb-in-hold to 8500.

ASOS 120.625	DENVER CENTER 127.55 343.95	UNICOM 122.8 (CTAF) 0
------------------------	---------------------------------------	---------------------------------

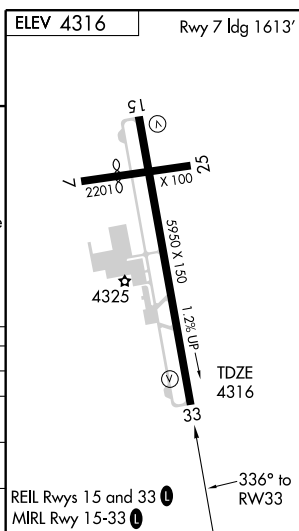
MISSED APCH FIX



Procedure NA for arrivals at CELAY via V208 southbound.



CATEGORY	A	B	C	D
LPV DA	4566-1 250 (300-1)			
LNAV/ VNAV DA	4744-1½ 428 (500-1½)			
LNAV MDA	4920-1 604 (700-1)	4920-1¾ 604 (700-1¾)	4920-2 604 (700-2)	
CIRCLING	4920-1 604 (700-1)	4920-1¾ 604 (700-1¾)	4920-2 604 (700-2)	



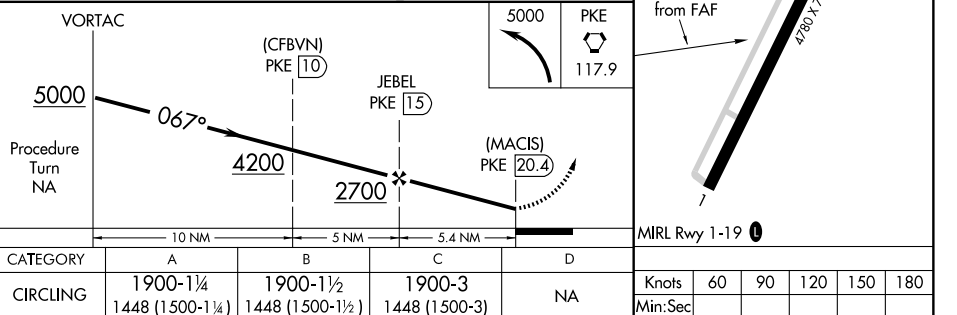
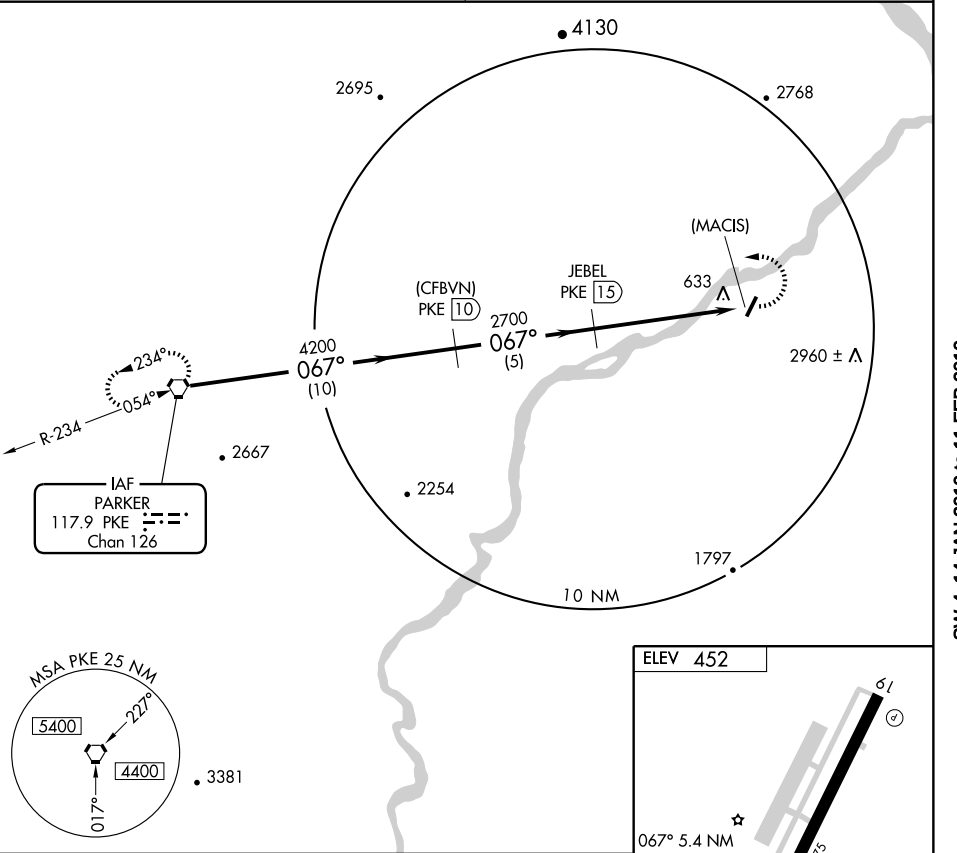
NA

Use Blythe, CA altimeter setting; when not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 5000 direct PKE VORTAC and hold.

LOS ANGELES CENTER
128.15 285.6

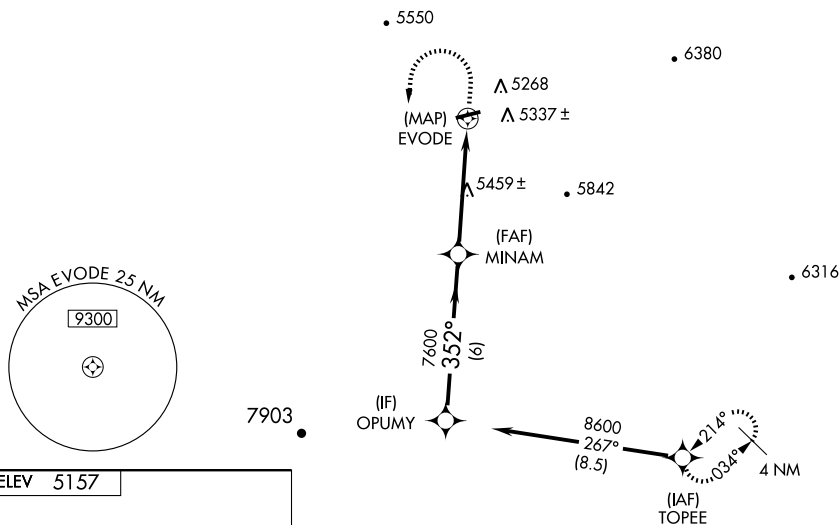
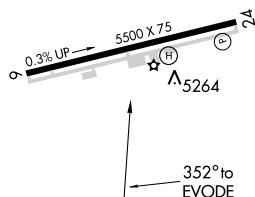
UNICOM
122.725 (CTAF) 0



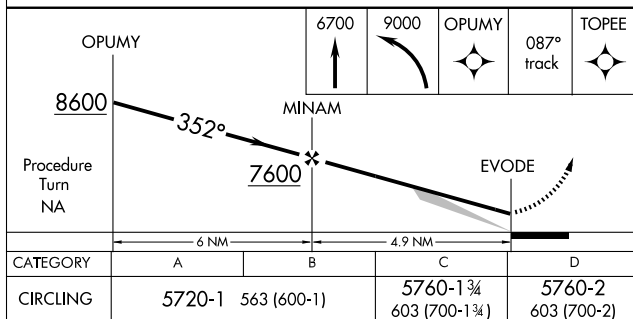
SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS
352°Rwy Idg
TDZE
Apt Elev**N/A**
N/A
5157**RNAV (GPS)-A**
PAYSON (PAN)**NA** GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6700 then climbing left turn to 9000 direct OPUMY WP and via 087° track to TOPEE WP and hold.

AWOS-3
119.325ALBUQUERQUE CENTER
132.9 239.05UNICOM
122.8 (CTAF) 1ELEV **5157**

MIRL Rwy 6-24 1

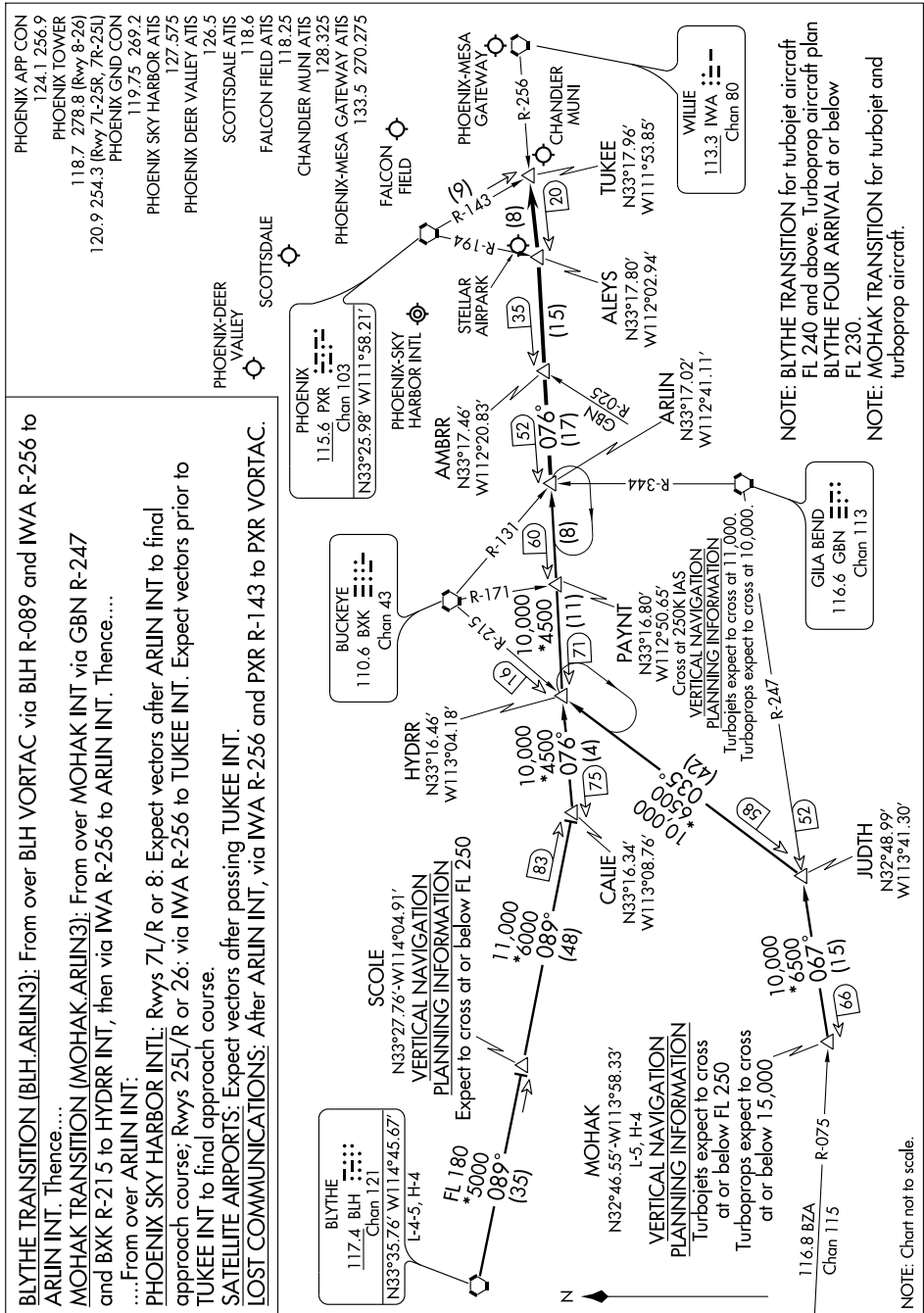




ARLIN THREE ARRIVAL

ST-322 (FAA)

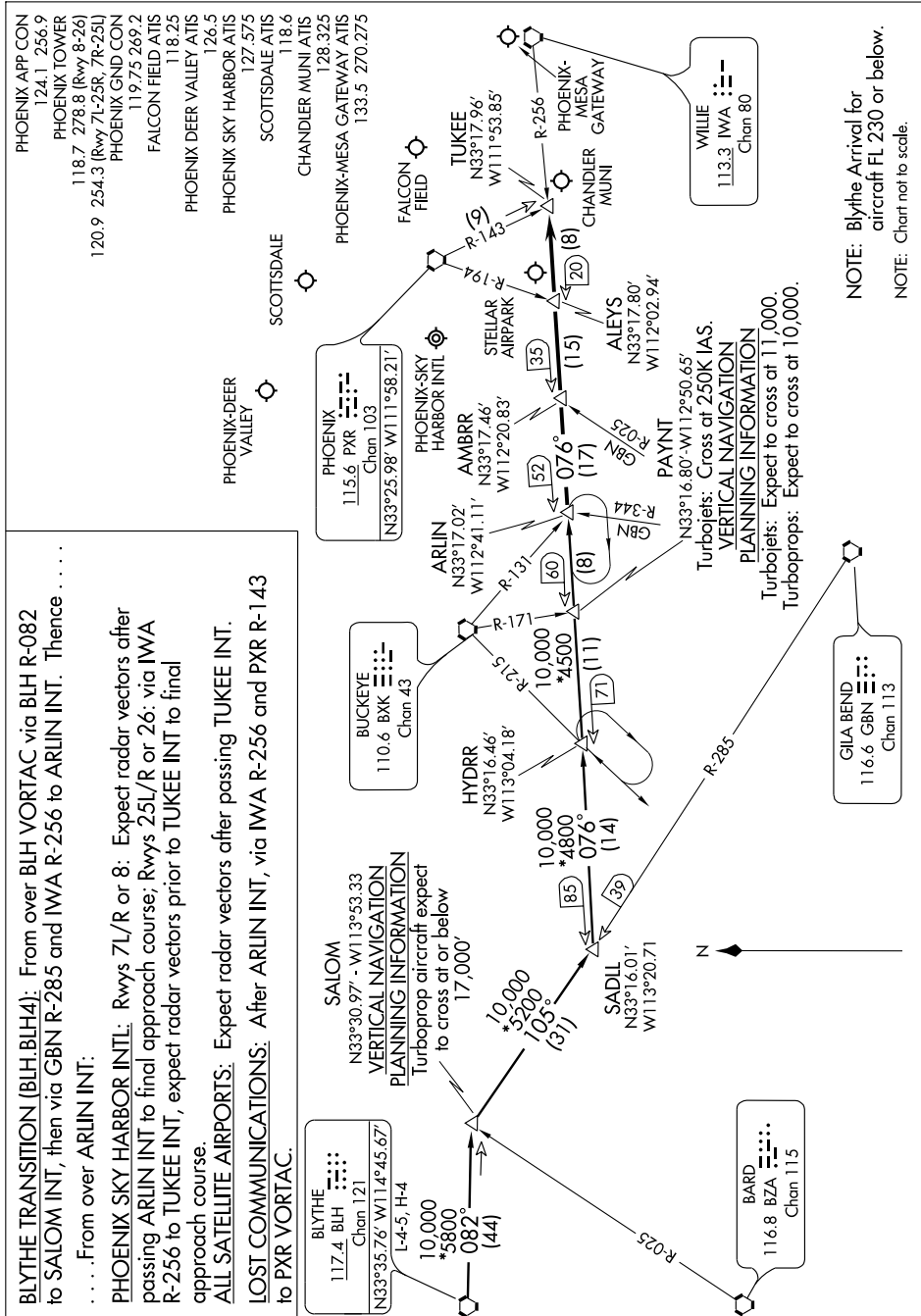
PHOENIX, ARIZONA



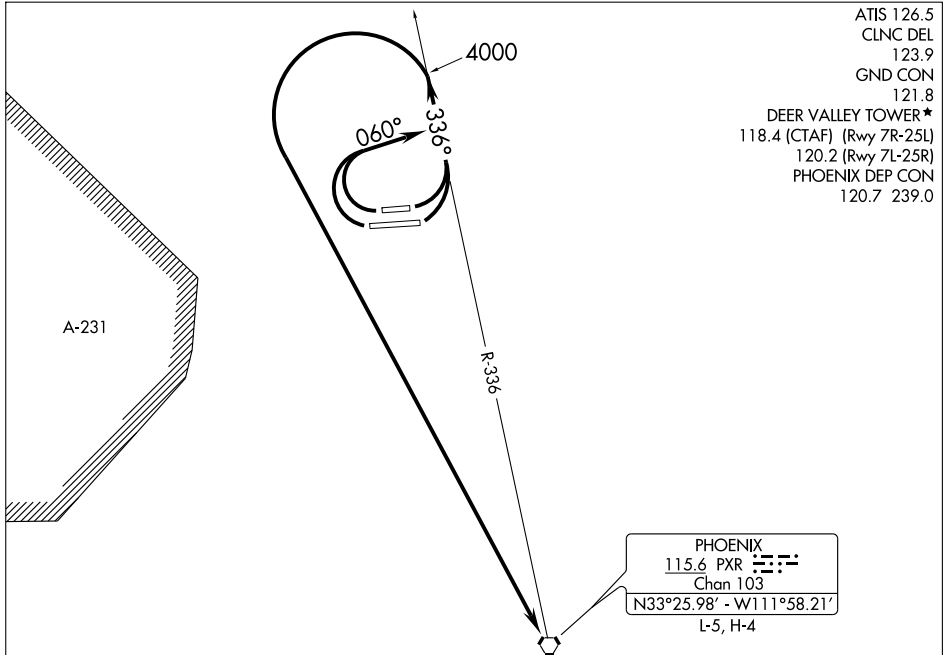
BLYTHE FOUR ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA



DEERVALLEY ONE DEPARTURE (OBSTACLE)

**TAKE-OFF MINIMUMS**

Rwy 7L: Standard with minimum climb of 565' per NM to 2800, or 1000-3 with minimum climb of 370' per NM to 2800, or 1500-3 for climb in visual conditions.

Rwy 7R: 500-1¼ with minimum climb of 488' per NM to 2800, or 1500-3 for climb in visual conditions.

Rwy 25R: Standard with minimum climb of 487' per NM to 2800, or 1500-3 for climb in visual conditions.

Rwy 25L: Standard with minimum climb of 451' per NM to 2800, or 1500-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

RWY 7L: Multiple poles and vegetation beginning 912' from DER, 125' left of centerline, up to 30' AGL/2423' MSL.

Cactus 3824' from DER, 96' right of centerline, 16' AGL/1596' MSL.

Windsock 340' from DER, 354' right of centerline, 9' AGL/1488' MSL.

RWY 7R: Multiple antennas and vegetation beginning 546' from DER, 267' left of centerline, up to 52' AGL/1952' MSL.

Multiple antennas and vegetation beginning 978' from DER, 431' right of centerline, up to 40' AGL/1609' MSL.

RWY 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

RWY 25L: Pole 1127' from DER, 498' right of centerline, 36' AGL/1475' MSL.

Pole 1184' from DER, 495' left of centerline, 32' AGL/1471' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

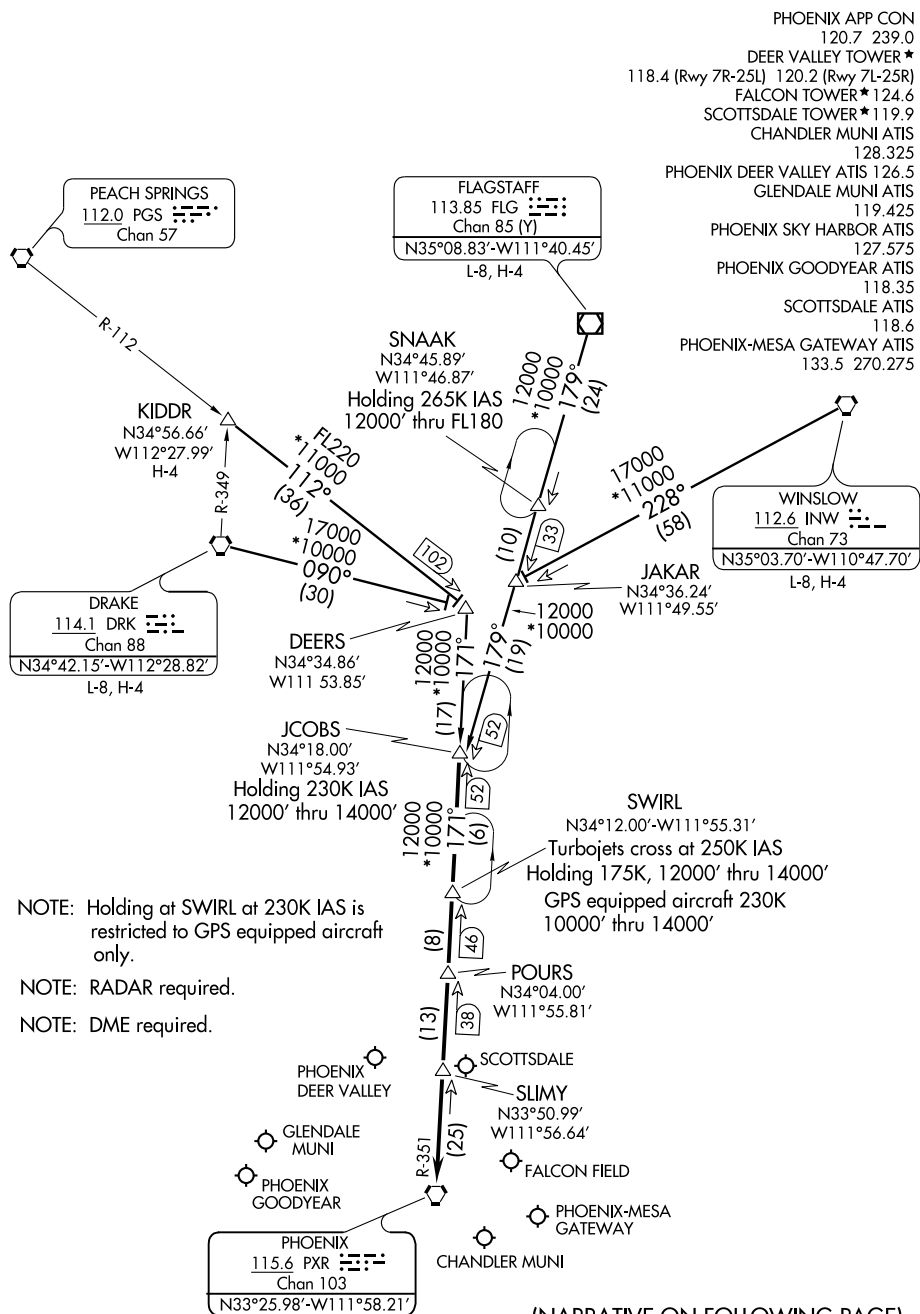
TAKE-OFF RUNWAYS 7L/R: Climbing left turn via PXR VORTAC R-336 northwestbound to 4000. Thence....Or, climb in visual conditions to cross Phoenix Deer Valley Airport at or above 2800, then via PXR VORTAC R-336 northwestbound to 4000. Thence....

TAKE-OFF RUNWAYS 25L/R: Climbing right turn via heading 060° and PXR VORTAC R-336 northwestbound to 4000. Thence....Or, climb in visual conditions to cross Phoenix Deer Valley Airport at or above 2800, then via PXR VORTAC R-336 northwestbound to 4000. Thence....

....climbing left turn direct PXR VORTAC.

JCBS TWO ARRIVAL

SCOTTSDALE, ARIZONA



(NARRATIVE ON FOLLOWING PAGE)

JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

APP CRS	Rwy Idg	N/A
254°	TDZE	N/A
	Apt Elev	1478

RNAV (GPS)-B PHOENIX DEER VALLEY (DVT)

▼ DME/DME RNP-0.3 NA.
▲ When VGSI inop, circling to Rwy 25R NA at night.
 Circling not authorized at night north of Rwy 7R-25L.
 If local altimeter setting not received, use Phoenix Sky Harbor
 Intl altimeter setting and increase all MDAs 100 feet.

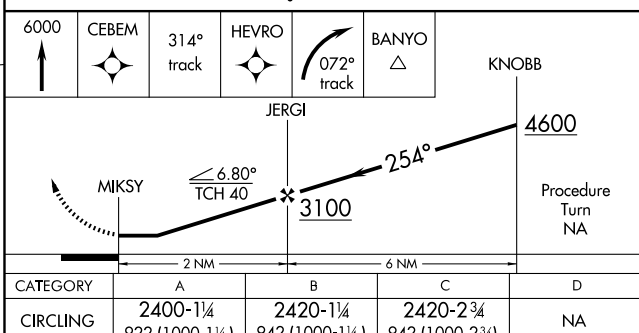
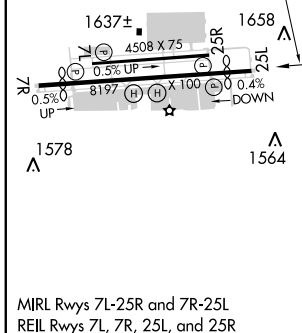
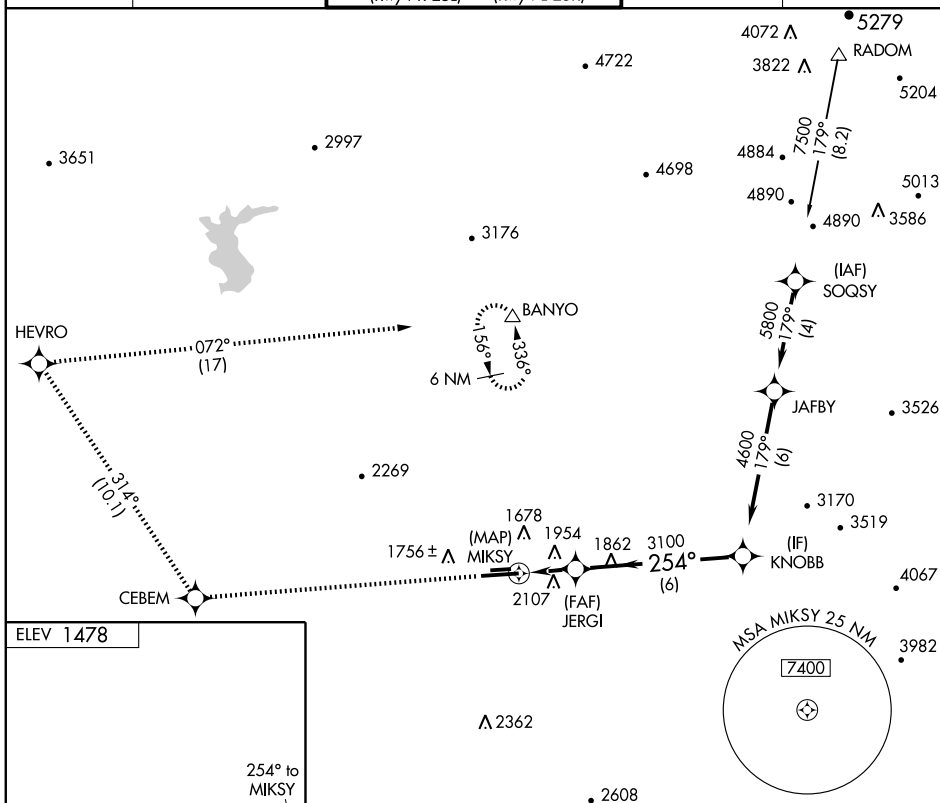
MISSED APPROACH: Climb to 6000 direct CEBEM and via 314° track to HEVRO, and right turn via 072° track to BANYO and hold.

ATIS
126.5

PHOENIX APP CON
120.7 239.0

DEER VALLEY TOWER ★	
118.4 (CTAF)	120.2
(Rwy 7R-25L)	(Rwy 7L-25R)

GND CON
121.8

CLNC DEL
123.9

APP CRS	Rwy Idg	N/A
285°	TDZE	N/A
	Apt Elev	1478

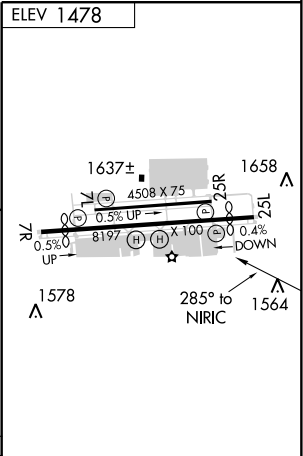
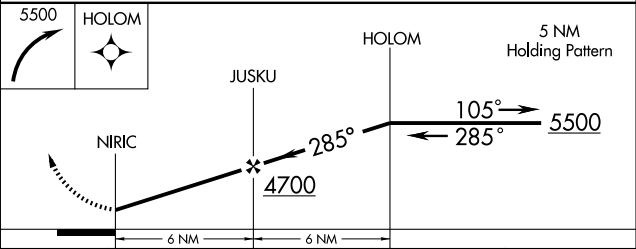
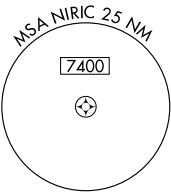
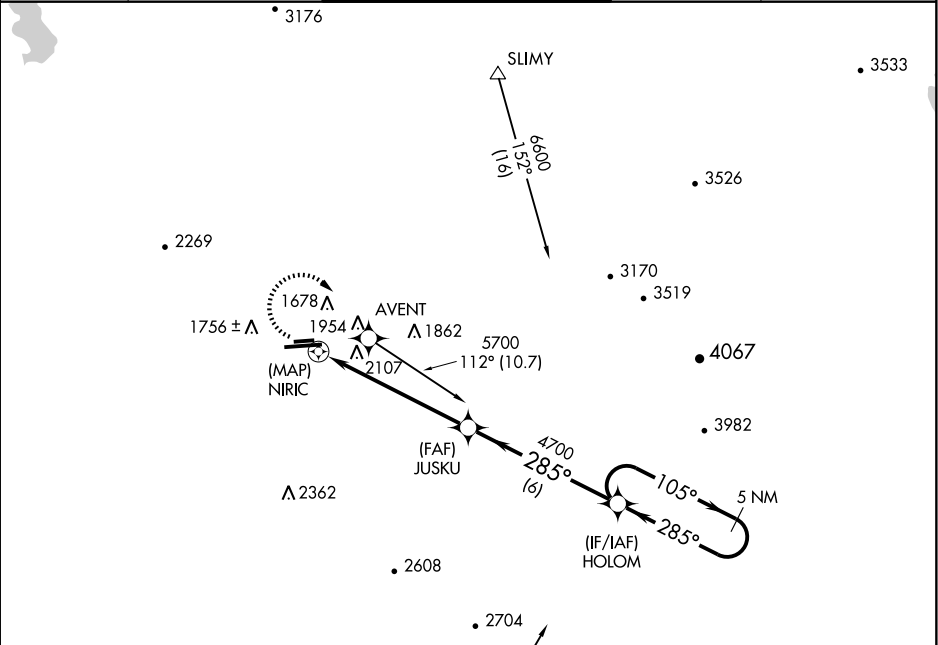
RNAV (GPS)-C
PHOENIX DEER VALLEY (DVT)

▼ DME/DME RNP-0.3 NA.

▲ Circling not authorized north of Rwy 7R-25L at night.
When VGSI inoperative, circling to Rwy 25R not authorized at night.

MISSED APPROACH: Climbing right turn to 5500 direct HOLOM and hold, continue climb-in-hold to 5500.

ATIS 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER ★ 118.4 (CTAF) 120.2 (Rwy 7R-25L) (Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
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CATEGORY	A	B	C	D
CIRCLING	2400-1¼ 922 (1000-1¼)	2420-1¼ 942 (1000-1¼)	2420-2¾ 942 (1000-2¾)	2480-3 1002 (1100-3)

MIRL Rwy 7L-25R and 7R-25L
REIL Rwy 7L, 7R, 25L, and 25R

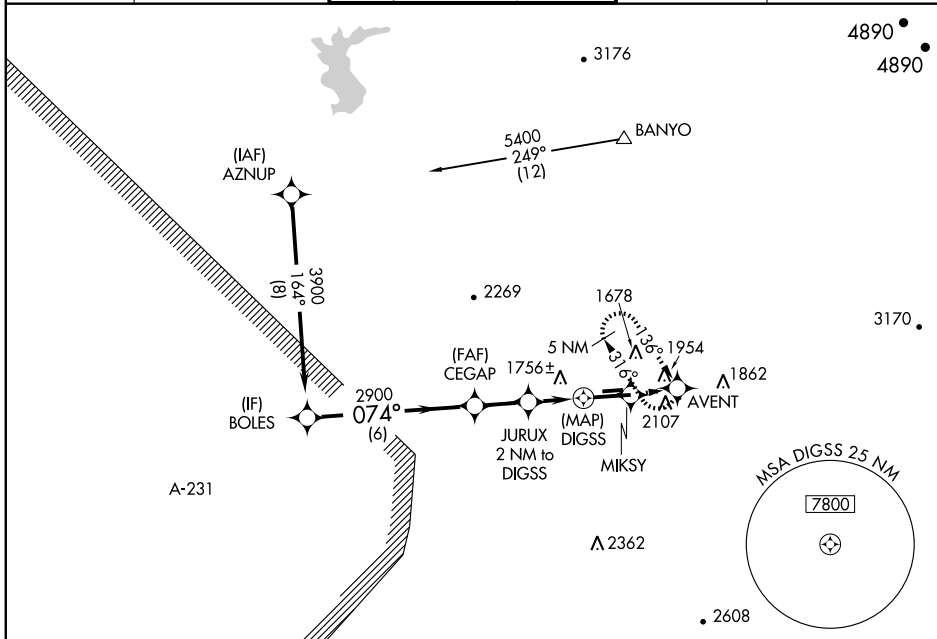
APP CRS	Rwy Idg	7299
074°	TDZE	1460
	Apt Elev	1478

RNAV (GPS) RWY 7R
PHOENIX DEER VALLEY (DVT)

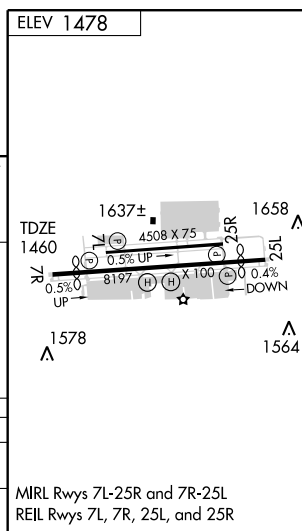
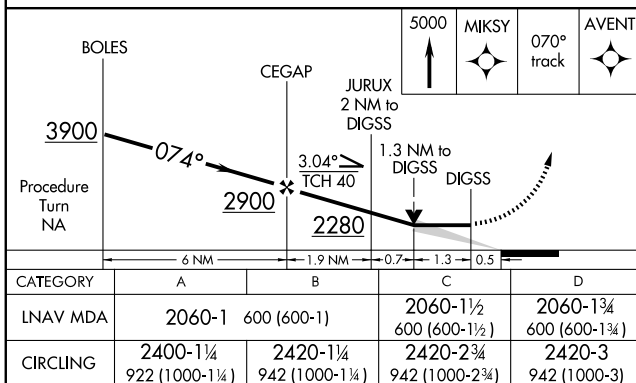
T DME/DME RNP-0.3 NA.
A Circling not authorized north of Rwy 7R-25L at night.
When VGSI inoperative, circling to Rwy 25R not authorized at night.

MISSED APPROACH: Climb to 5000 direct MIKSY and via 070° track to AVENT and hold, continue climb-in-hold to 5000.

ATIS 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER★ 118.4 (CTAF) 120.2 (Rwy 7R-25L) (Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
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SW-4. 14 JAN 2010 to 11 FEB 2010



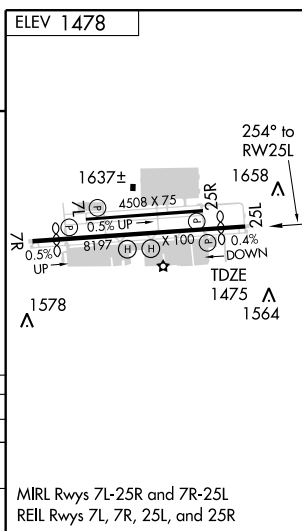
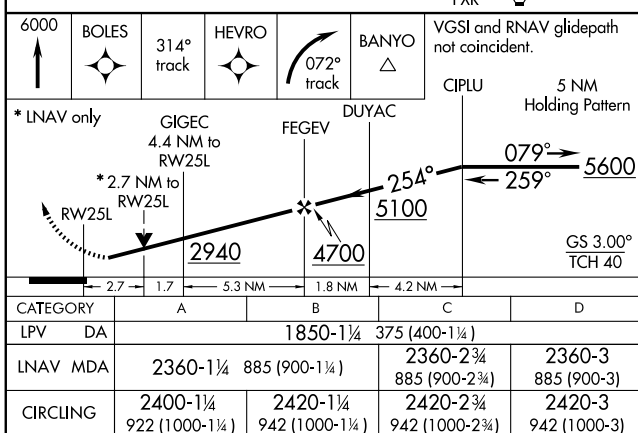
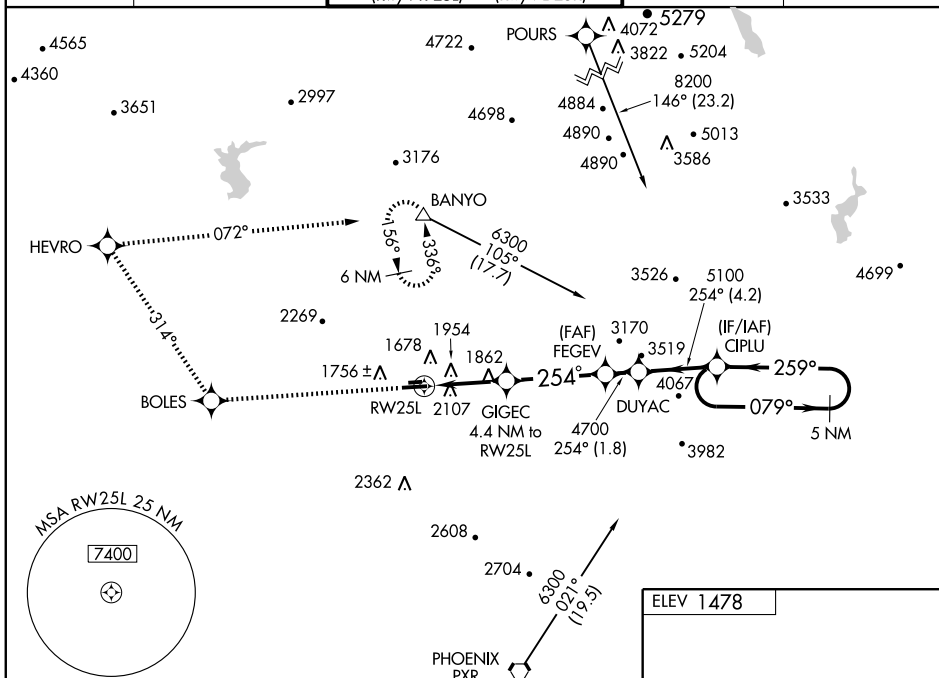
WAAS CH 90117 W25A	APP CRS 254°	Rwy Idg 7280 TDZE 1475 Apt Elev 1478
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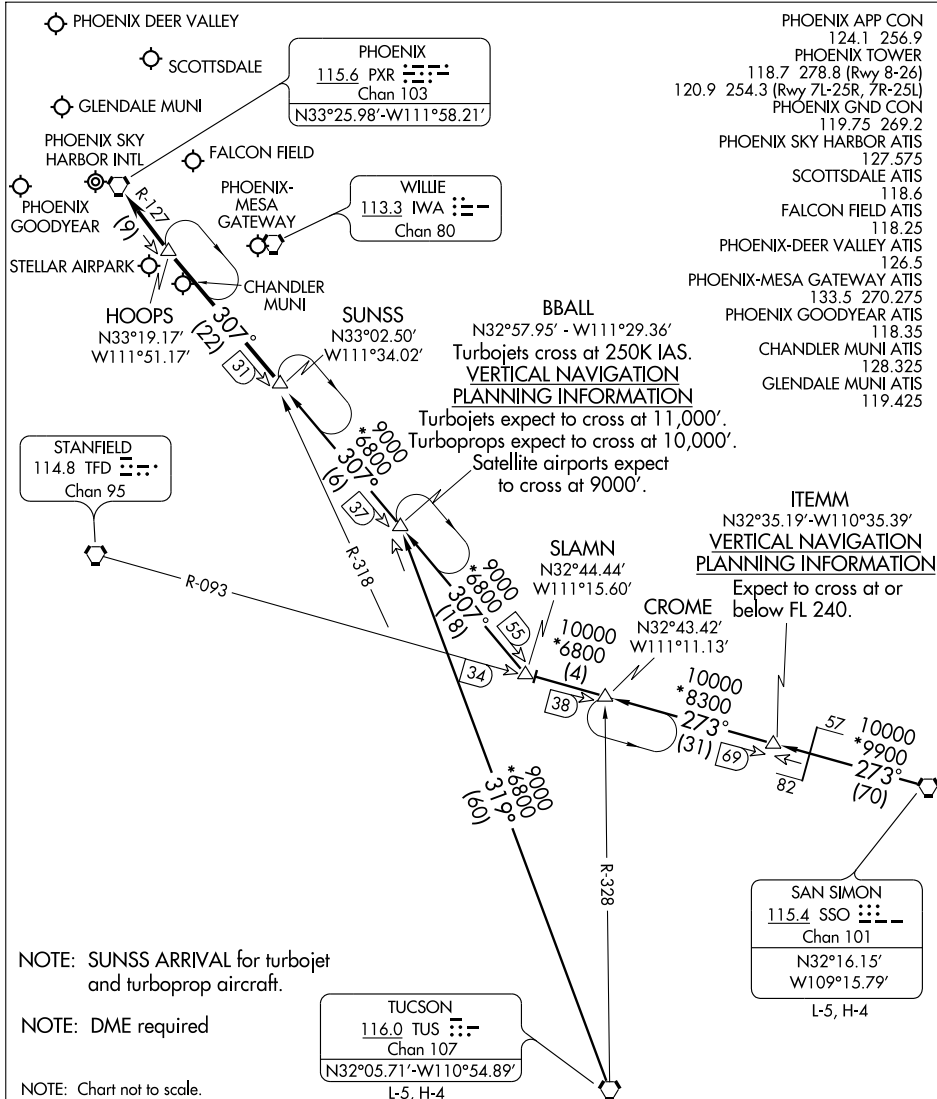
RNAV (GPS) RWY 25L
PHOENIX DEER VALLEY (DVT)

MISSED APPROACH: Climb to 6000 direct BOLES, and via 314° track to HEVRO, and right turn via 072° track to BANYO and hold.

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Circling not authorized north of Rwy 7R-25L at night.
When VGSi inoperative, circling to Rwy 25R not authorized at night.
If local altimeter setting not received, use Phoenix Sky Harbor
Intl altimeter setting and increase all DAs/MDAs 100 feet.
VDP NA when using Phoenix Sky Harbor Intl altimeter setting.

ATIS 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER★ 118.4 (CTAF) 120.2 (Rwy 7R-25L) (Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
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SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

AIRPORT DIAGRAM

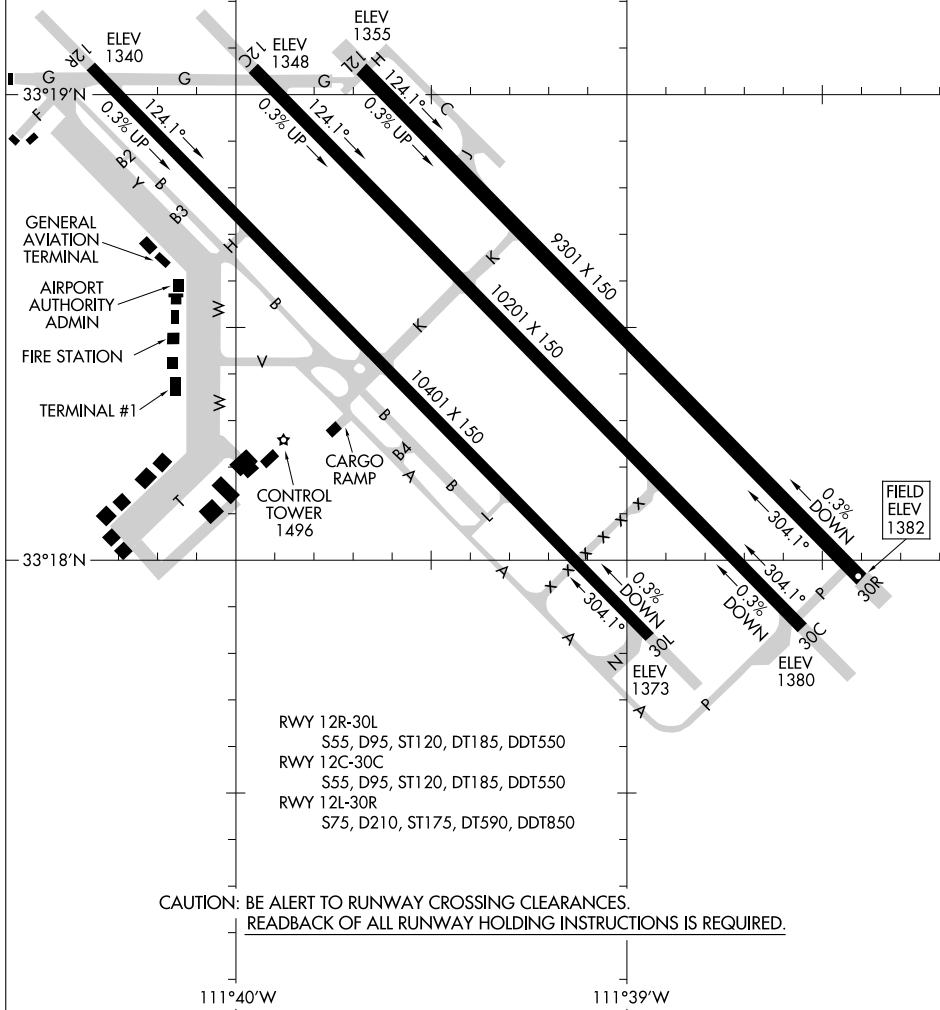
AL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

ATIS
133.5 270.275
GATEWAY TOWER ★
120.6 (CTAF) 289.4 WEST
124.75 379.225 EAST
GND CON
128.25 275.8
CLNC DEL
135.05

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

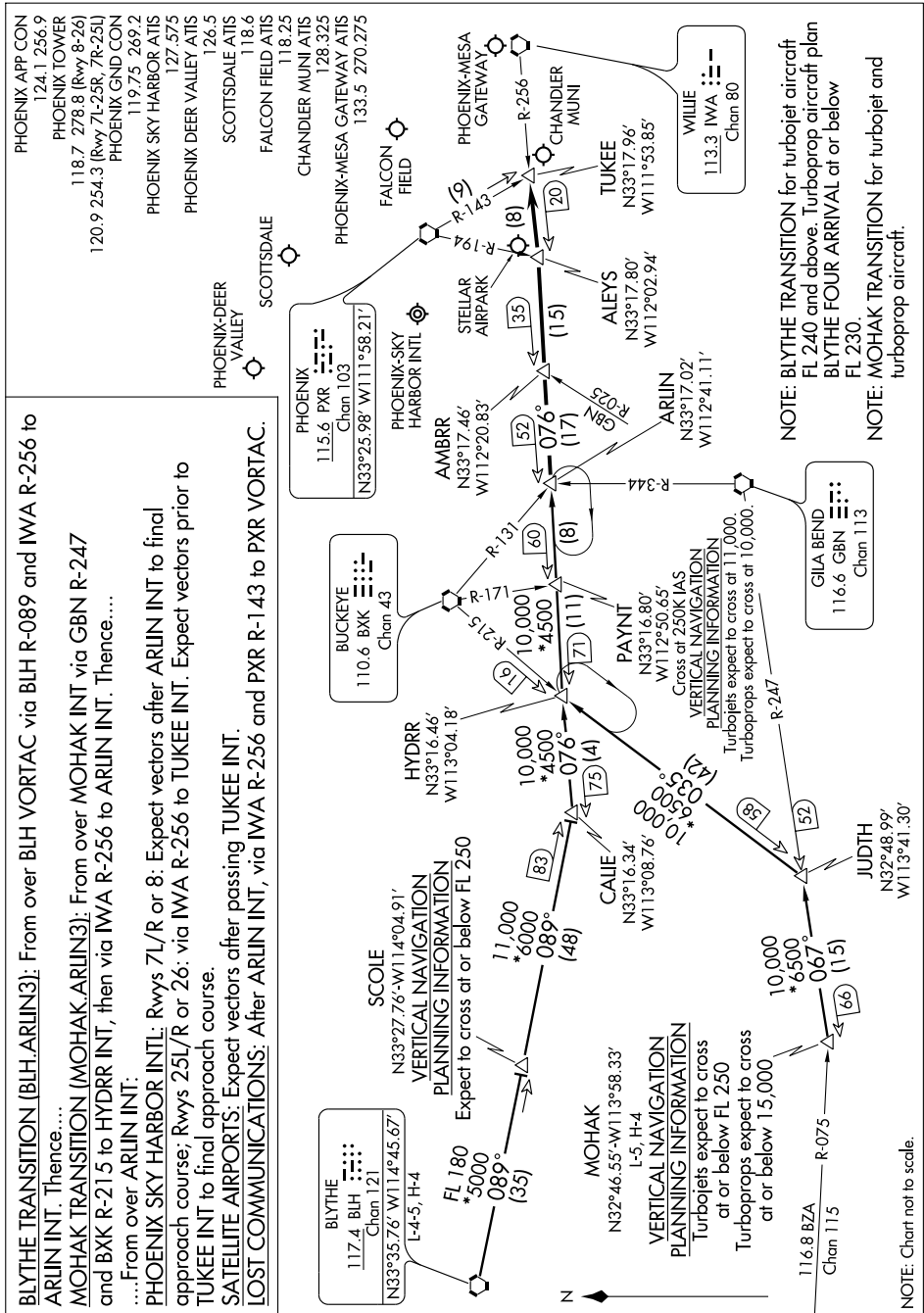
VAR 11.5° E



ARLIN THREE ARRIVAL

ST-322 (FAA)

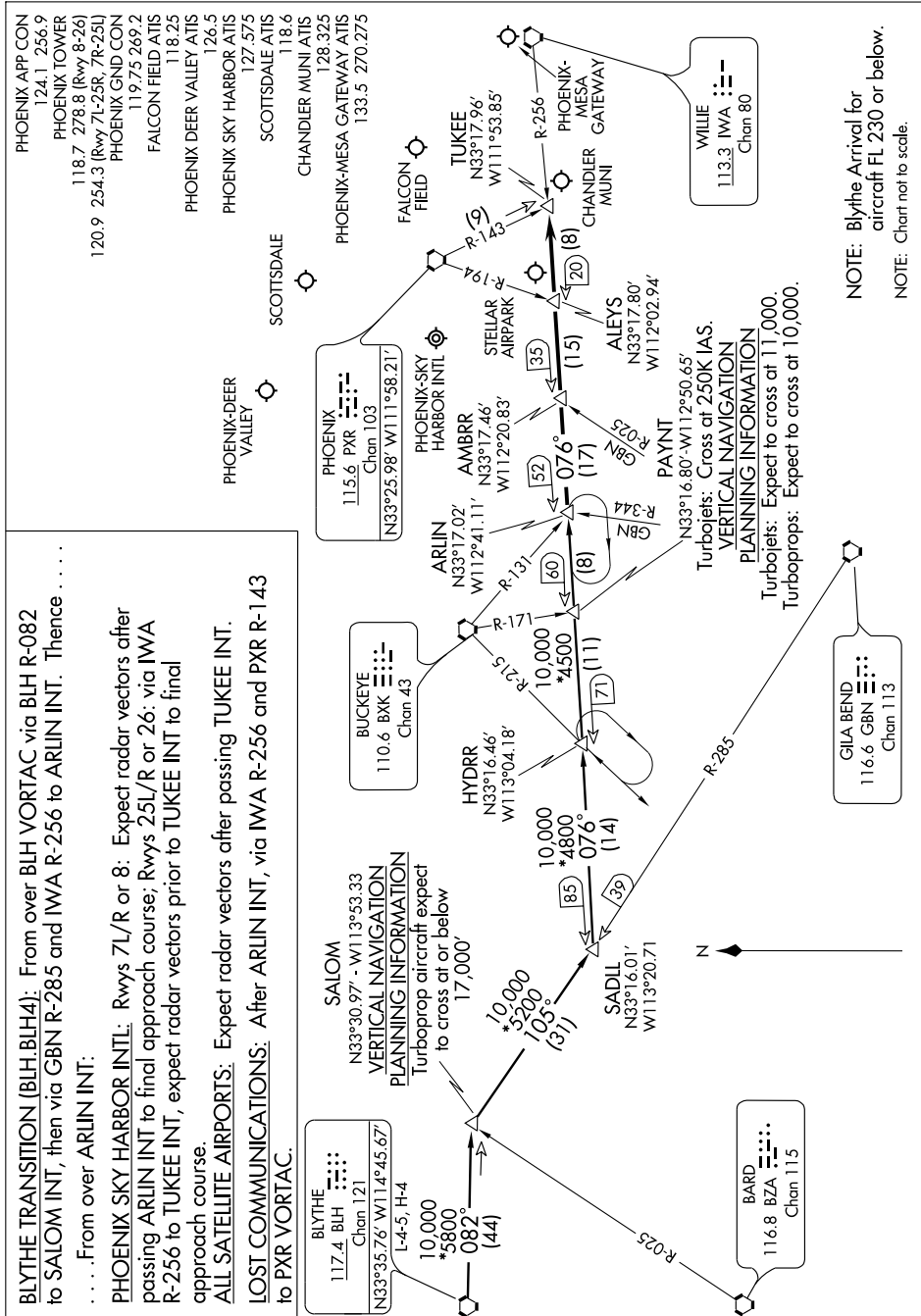
PHOENIX, ARIZONA



BLYTHE FOUR ARRIVAL

ST-322 (FAA)

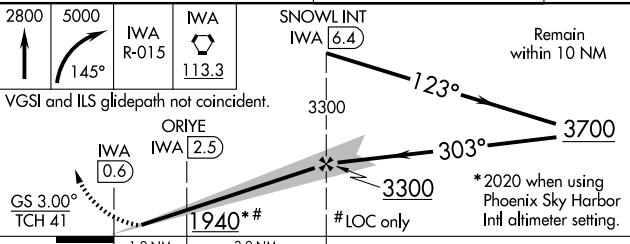
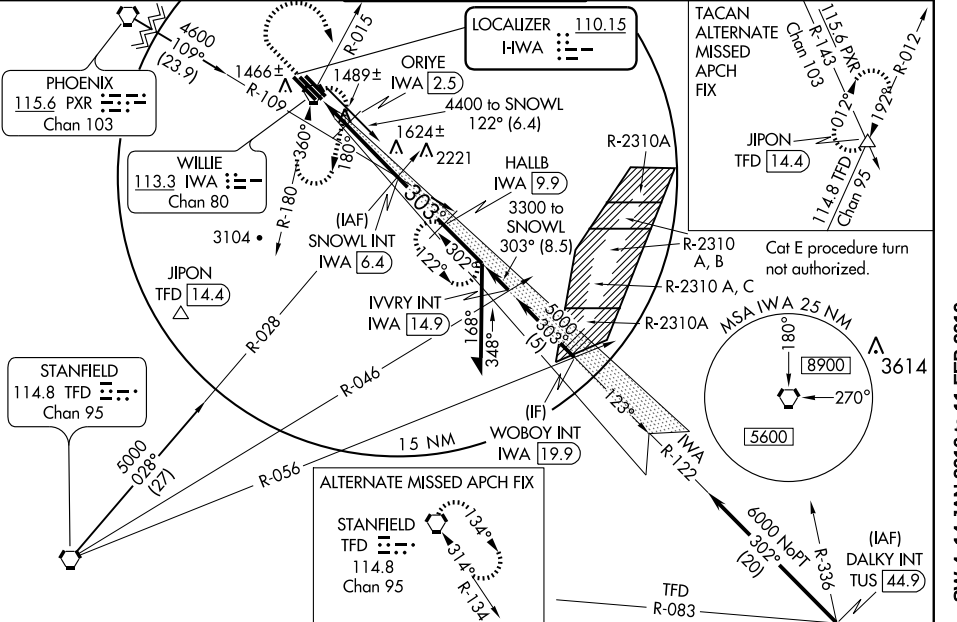
PHOENIX, ARIZONA



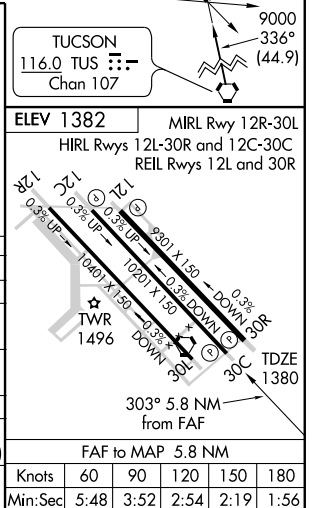
⚠ When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DA/MDA 80 feet, increase S-ILS 30C, S-LOC 30C all Cats visibility ¼ mile, circling Cats A/B/C visibility ½ mile, Cat E ½ mile.

MISSED APPROACH: Climb to 2800 then climbing right turn to 5000 via heading 145° and IWA VORTAC R-015 to IWA VORTAC and hold, continue climb-in-hold to 5000 (TACAN aircraft continue via IWA VORTAC R-122 to HALLB/9.9 DME and hold, continue climb-in-hold to 5000, hold SE, LT, 302° inbound).

ATIS 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER ★ 120.6 (CTAF) 289.4 (WEST) 124.75 379.225 (EAST)	GND CON 128.25 275.8	CLNC DEL 135.05
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CATEGORY	A	B	C	D	E
S-ILS 30C	1580-¾ 200 (200-¾)				
S-LOC 30C	1940-1	560 (600-1)	1940-1½ 560 (600-1½)	1940-1¾ 560 (600-1¾)	1940-2 560 (600-2)
CIRCLING	1940-1	558 (600-1)	1940-1½ 558 (600-1½)	1940-2 558 (600-2)	1980-2 598 (600-2)
ORIYE FIX MINIMUMS					
S-LOC 30C	1800-1	420 (500-1)	1800-1¼ 420 (500-1¼)	1800-1½ 420 (500-1½)	
CIRCLING	1800-1 418 (500-1)	1840-1 458 (500-1)	1840-1½ 458 (500-1½)	1940-2 558 (600-2)	1980-2 598 (600-2)



SW-4, 14 JAN 2010 to 11 FEB 2010

JACOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

PHOENIX APP CON

120.7 239.0

DEER VALLEY TOWER ★

118.4 (R_{wy} 7R-25L) 120.2 (R_{wy} 7L-25R)

FALCON TOWER★124.6

SCOTTSDALE TOWER★119.9

CHANDLER MUNICIPAL ATIS

128.325

PHOENIX DEER VALLEY ATIS 126.5

GLENDALÉ MUNI ATIS

119.425

PHOENIX SKY HARBOR ATIS

127.575

PHOENIX GOODYEAR ATIS

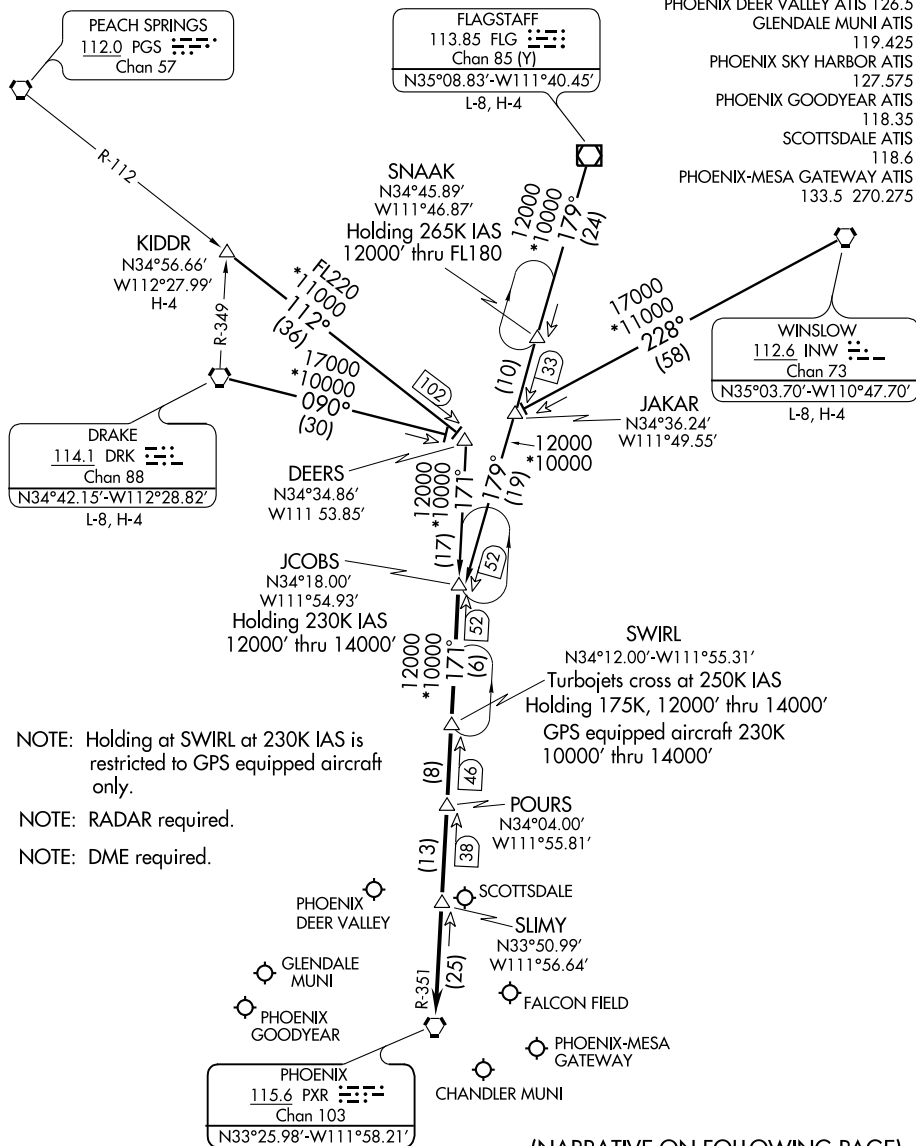
118.35

SCOTTSDALE ATIS

118.6

PHOENIX-MESA GATEWAY ATIS

133,5 270,275



SW-4. 14 JAN 2010 to 11 FEB 2010

(NARRATIVE ON FOLLOWING PAGE)

JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

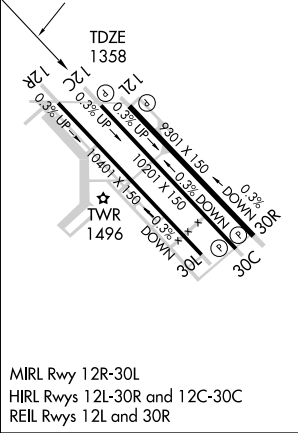
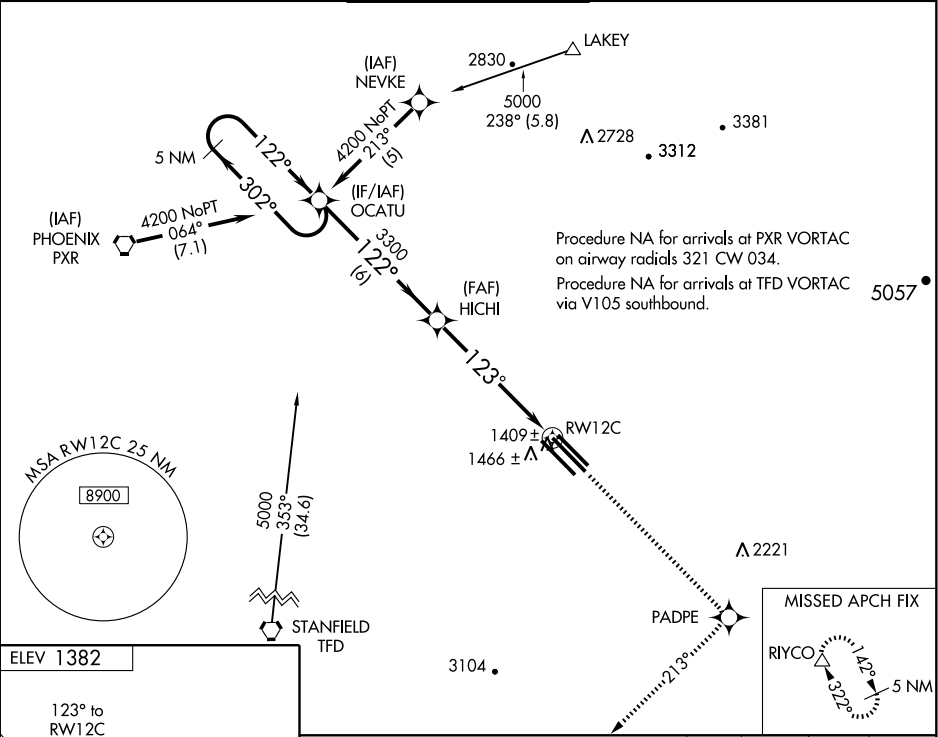
WAAS CH 58200 W12A	APP CRS 123°	Rwy Idg 10201 TDZE 1358 Apt Elev 1382
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RNAV (GPS) RWY 12C

PHOENIX-MESA GATEWAY (IWA)

▼ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems LNAV/VNAV NA below -17°C (2°F) or above 46°C (115°F).	MISSED APPROACH: Climb to 5000 direct PADPE and via 213° track to RIYCO and hold.
--	--

ATIS 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER ★ 120.6 (CTAF) 289.4 (WEST) 124.75 379.225 (EAST)	GND CON 128.25 275.8	CLNC DEL 135.05
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5 NM Holding Pattern	OCATU	5000	PADPE	213° track	RIYCO
4200	302°	122°	122°	123°	123°
GS 3.00°	TCH 50	6 NM	4.8 NM	1.1	
CATEGORY	A	B	C	D	E
LPV DA	1608-1 250 (300-1)				
LNAV/VNAV DA	1685-1¼ 327 (400-1¼)				
LNAV MDA	1740-1 382 (400-1)			1740-1¼ 382 (400-1¼)	
CIRCLING	1800-1¼ 418 (500-1¼)	1840-1¼ 458 (500-1¼)	1840-1½ 458 (500-1½)	1940-2 558 (600-2)	

AL-74 (FAA)

RNAV (GPS) RWY 12R

PHOENIX-MESA GATEWAY (IWA)

APP CRS	Rwy Idg	10401
123°	TDZE	1373
	Apt Elev	1382

T When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting.

A NA VDP NA with Phoenix Sky Harbor Intl altimeter setting. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 4200 direct GEJRI WP and hold.

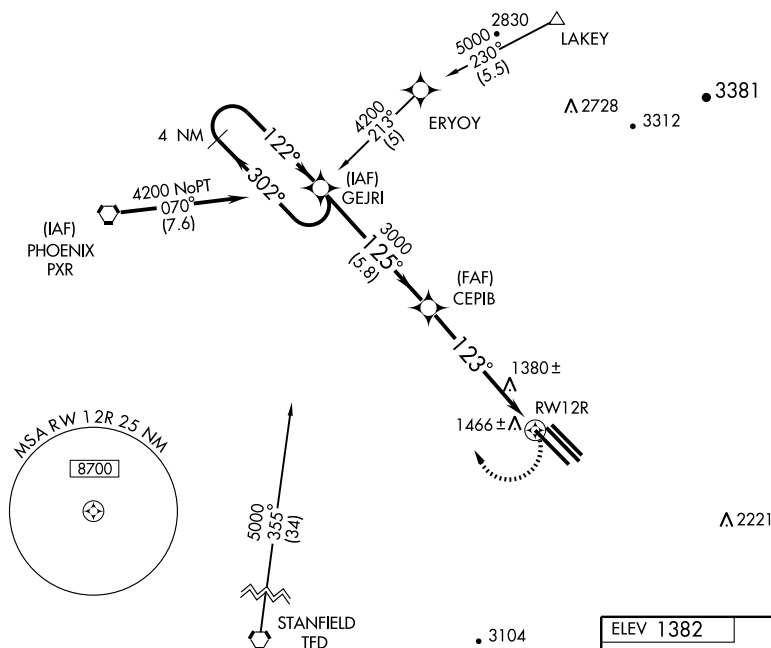
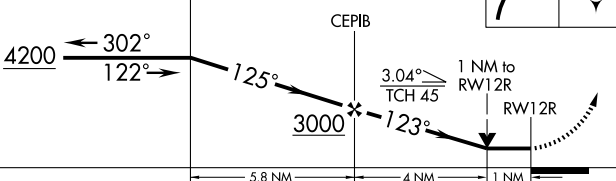
ATIS
133.5 270.275

PHOENIX APP CON
124.9 353.8

GATEWAY TOWER ★
120.6 (CTAF) **289.4** (WEST)
124.75 **379.225** (EAST)

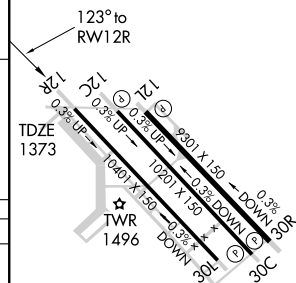
GND CON
128.25 275.8

CLNC DEL
135.05

4 NM
Holding Pattern

CATEGORY	A		B	C	D	E
RNAV MDA	1720-1 347 (400-1)				1720-1½ 347 (400-1½)	
CIRCLING	1800-1 418 (500-1)	1840-1 458 (500-1)	1840-1½ 458 (500-1½)	1940-2 558 (600-2)		
PHOENIX SKY HARBOR INTL ALTIMETER SETTING MINIMUMS						
RNAV MDA	1800-1 427 (500-1)		1800-1½ 427 (500-1½)	1800-1½ 427 (500-1½)		
CIRCLING	1880-1 498 (500-1)	1920-1 538 (600-1)	1920-1½ 538 (600-1½)	1940-2 558 (600-2)	2000-2½ 618 (700-2½)	

ELEV 1382



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

SW-4. 14 JAN 2010 to 11 FEB 2010

WAAS CH 62911 W30A	APP CRS 303°	Rwy Idg 10201 TDZE 1380 Apt Elev 1382
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RNAV (GPS) RWY 30C

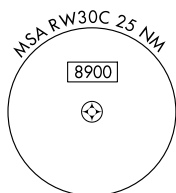
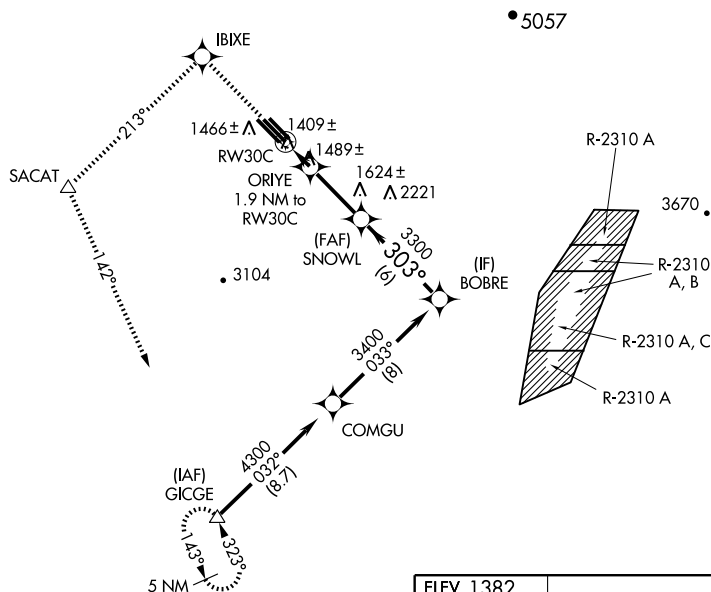
PHOENIX-MESA GATEWAY (IWA)

V For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

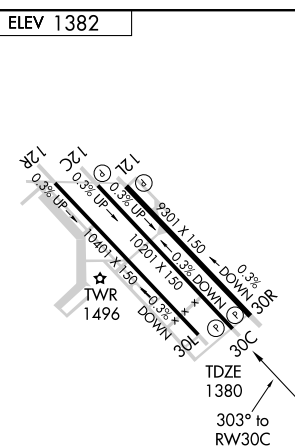
A When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DA/MDA 80 feet and increase LPV, LNAV/VNAV, LNAV all Cats visibility ¼ mile, increase circling Cat A/B/C visibility ¼ mile, Cat E ½ mile. VDP and Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting.

MISSED APPROACH: Climb to 5000
direct IBXE and via 213° track to SACAT
and 142° track to GICGE and hold.

ATIS	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4 (WEST) 124.75 379.225 (EAST)	128.25 275.8	135.05



CATEGORY	A	B	C	D	E
LPV DA	1630-1 250 (300-1)				
RNAV/VNAV DA	1680-1 300 (300-1)				
RNAV MDA	1800-1	420 (500-1)	1800-1¼ 420 (500-1¼)	1800-1½ 420 (500-1½)	
CIRCLING	1800-1 418 (500-1)	1840-1 458 (500-1)	1840-1½ 458 (500-1½)	1940-2 558 (600-2)	1980-2 598 (600-2)



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

MISSED APPROACH: Climb to 2800 then climbing left turn to 5000 to ECIFY WP and hold.

T	When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting.
A	VDP NA with Phoenix Sky Harbor Intl altimeter setting. DME/DME RNP- 0.3 NA.

POWER ★	GND CON	CLNC DEL
9.4 (WEST)	128.25 275.8	135.05
25 (EAST)		

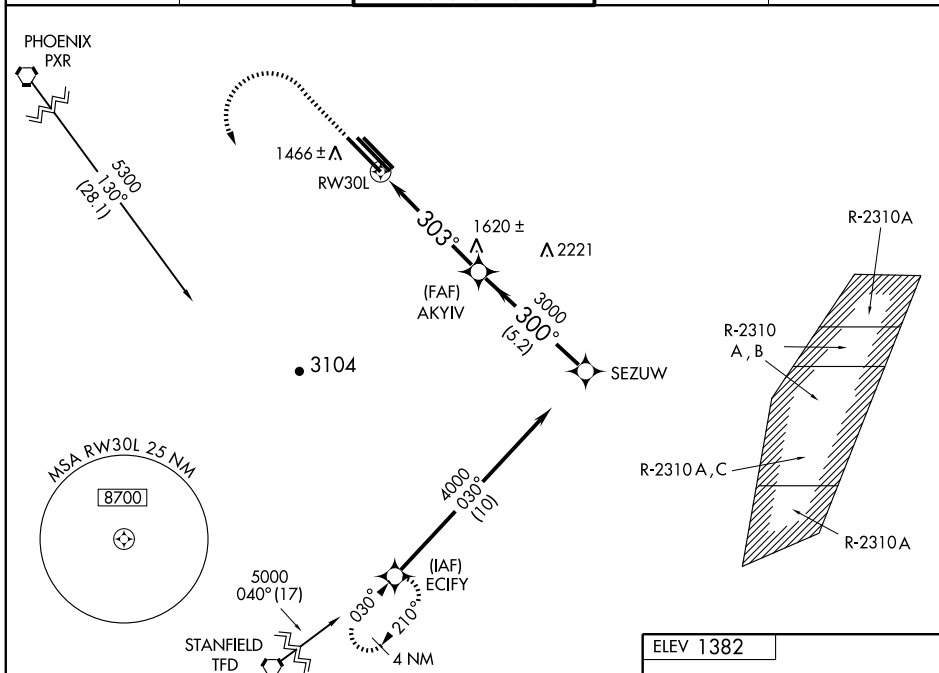
ATIS
133.5 270.275

PHOENIX APP CON
124.9 353.8

GATEWAY TOWER ★
120.6 (CTAF) **289.4** (WEST)
124.75 **379.225** (EAST)

GND CON
128.25 275.8

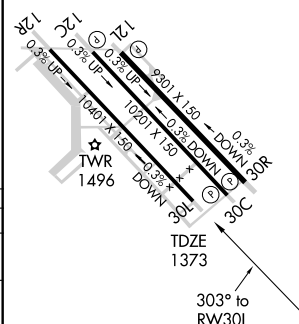
CLNC DEL
135.05



SW-4. 14 JAN 2010 to 11 FEB 2010

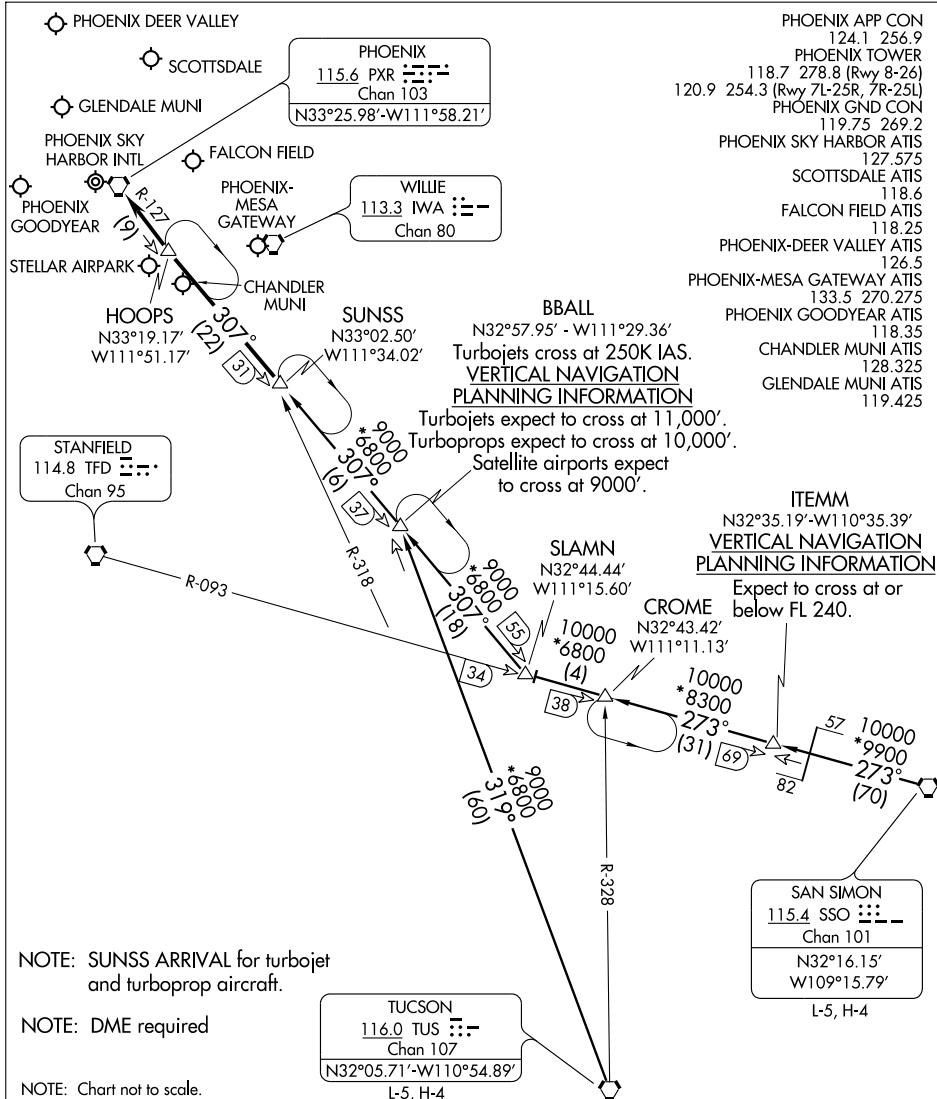
2800	5000	ECIFY		SEZUW
↑	↖	✦	AKYIV	

ELEV 1382



	1.2	3.8 NM	5.2 NM		
CATEGORY	A	B	C	D	E
LNAV MDA	1800-1	427 (500-1)	1800-1 $\frac{1}{4}$ 427 (500-1 $\frac{1}{4}$)	1800-1 $\frac{1}{2}$	427 (500-1 $\frac{1}{2}$)
CIRCLING	1800-1 418 (500-1)	1840-1 458 (500-1)	1840-1 $\frac{1}{2}$ 458 (500-1 $\frac{1}{2}$)	1940-2	558 (600-2)
PHOENIX SKY HARBOR INTL ALTIMETER SETTING MINIMUMS					
LNAV MDA	1880-1	507 (600-1)	1880-1 $\frac{1}{2}$	507 (600-1 $\frac{1}{2}$)	1880-1 $\frac{3}{4}$ 507 (600-1 $\frac{3}{4}$)
CIRCLING	1880-1 498 (500-1)	1920-1 538 (600-1)	1920-1 $\frac{1}{2}$ 538 (600-1 $\frac{1}{2}$)	1940-2 558 (600-2)	2000-2 $\frac{1}{4}$ 618 (700-2 $\frac{1}{4}$)

MIRL Rwy 12R-30L
HIRL Rwy 12L-30R and 12C-30C
REIL Rwy 12L and 30R



SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

VORTAC IWA	APP CRS	Rwy Idg 30C	10201	Rwy Idg 30R	9301
113.3	302°	TDZE	1380	TDZE	1382
Chan 80		Apt Elev	1382	Apt Elev	1382

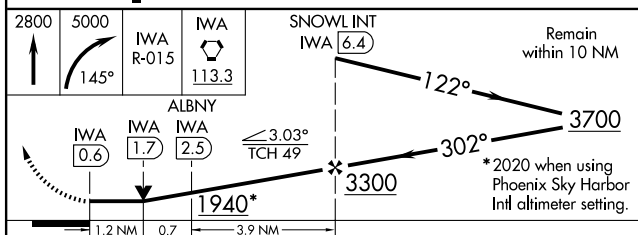
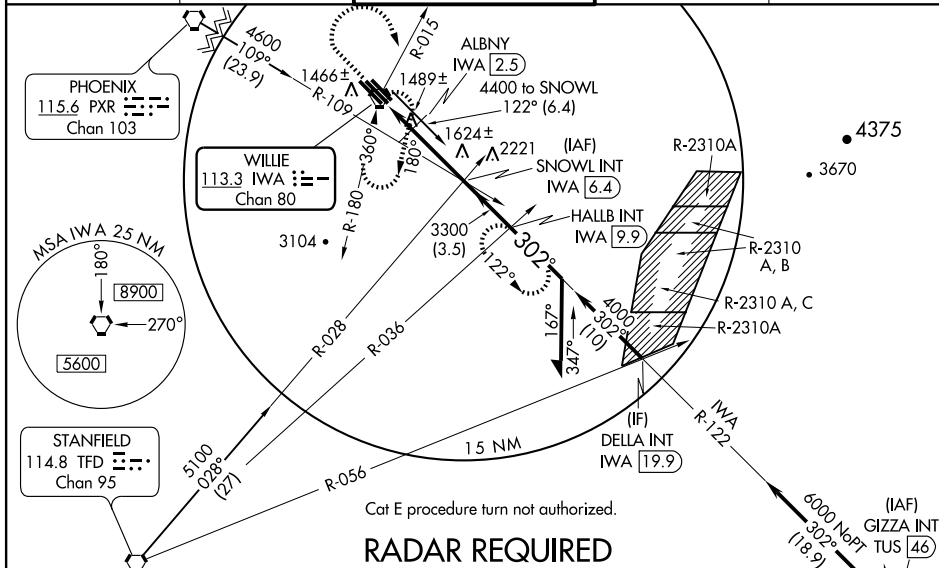
VOR or TACAN RWY 30C

PHOENIX-MESA GATEWAY (IWA)

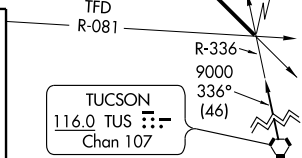
⚠ When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet, increase S-30C, SIDESTEP 30R all Cats visibility ¼ mile, circling Cats A/B/C visibility ¼ mile, Cat E ½ mile.

MISSED APPROACH: Climb to 2800 then climbing right turn to 5000 via heading 145° and IWA VORTAC R-015 to IWA VORTAC and hold, continue climb-in-hold to 5000 (TACAN aircraft continue via IWA VORTAC R-122 to HALLB INT/IWA 9.9 DME and hold, continue climb-in-hold to 5000, hold SE, LT, 302° inbound).

ATIS	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4 (WEST) 124.75 379.225 (EAST)	128.25 275.8	135.05



CATEGORY	A	B	C	D	E
S-30C	1940-1	560 (600-1)	1940-1½ 560 (600-1½)	1940-1¾ 560 (600-1¾)	1940-2 560 (600-2)
SIDESTEP 30R	1940-1	558 (600-1)	1940-1½ 558 (600-1½)	1940-2	558 (600-2)
CIRCLING	1940-1	558 (600-1)	1940-1½ 558 (600-1½)	1940-2	598 (600-2)
DME MINIMUMS					
S-30C	1800-1	420 (500-1)	1800-1¼ 420 (500-1¼)	1800-1½ 420 (500-1½)	
SIDESTEP 30R	1800-1	418 (500-1)	1800-1½ 418 (500-1½)	1800-2	418 (500-2)
CIRCLING	1800-1 418 (500-1)	1840-1 458 (500-1)	1840-1½ 458 (500-1½)	1940-2 558 (600-2)	1980-2 598 (600-2)



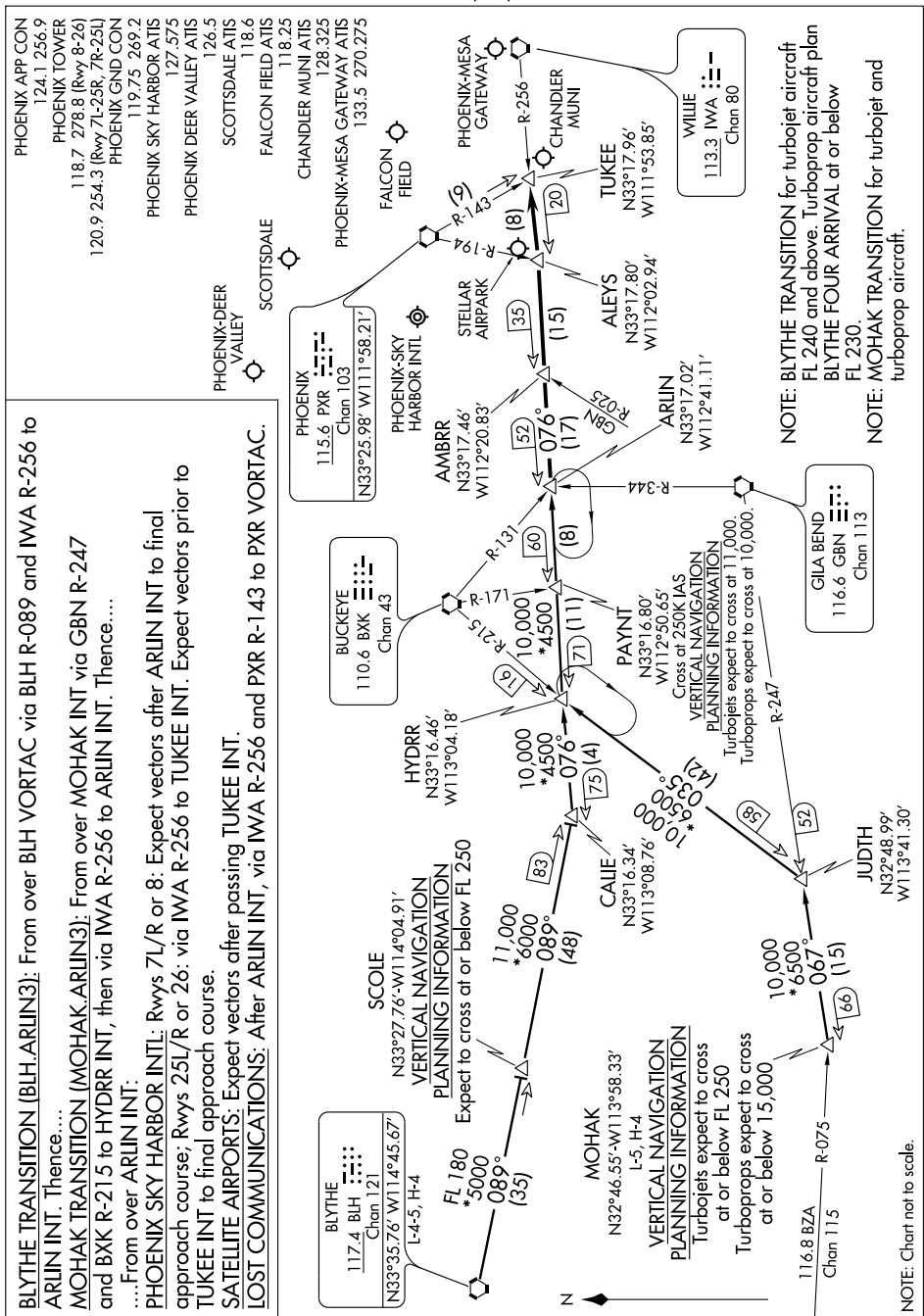
ELEV 1382	MIRL Rwy 12R-30L
HIRL Rws 12L-30R and 12C-30C	
REIL Rws 12L and 30R	
FAF to MAP 5.8 NM	
Knots	60 90 120 150 180
Min:Sec	5:48 3:52 2:54 2:19 1:56



ARLIN THREE ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA



(BARGN1.BARGN) 09127

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA

BARGN ONE DEPARTURE (RNAV)

ATIS 127.575

CLNC DEL

118.1 269.2

GND CON

119.75 269.2 (NORTH)

132.55 269.2 (SOUTH)

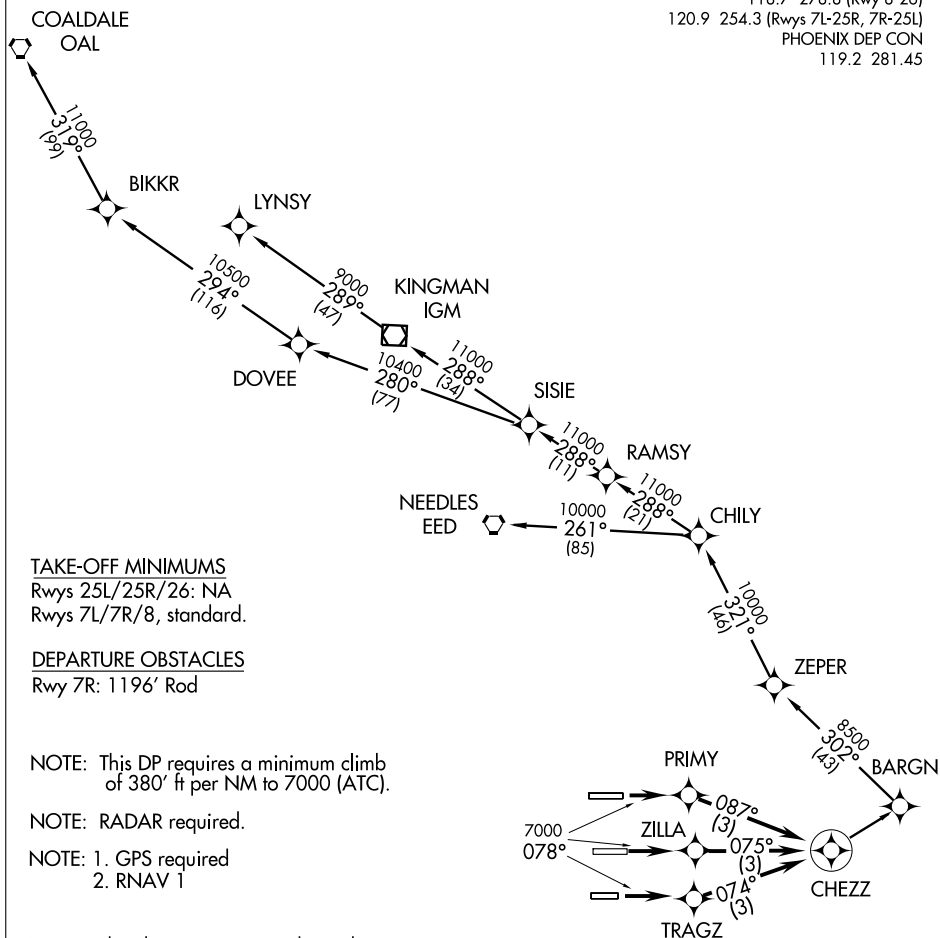
PHOENIX TOWER

118.7 278.8 (Rwy 8-26)

120.9 254.3 (Rwys 7L-25R, 7R-25L)

PHOENIX DEP CON

119.2 281.45



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-4, 14 JAN 2010 to 11 FEB 2010

BARGN ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7L: Climb via 078° course to ZILLA WP, then via 075° track to CHEZZ WP, then left turn direct BARGN WP, Thence....

TAKE-OFF RUNWAY 7R: Climb via 078° course to TRAGZ WP, then via 074° track to CHEZZ WP, then left turn direct BARGN WP, Thence....

TAKE-OFF RUNWAY 8: Climb via 078° course to PRIMY WP, then via 087° track to CHEZZ WP, then left turn direct BARGN WP, Thence....

....via (transition). Maintain 7000, expect filed altitude within three minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

COALDALE TRANSITION (BARGN1.OAL)

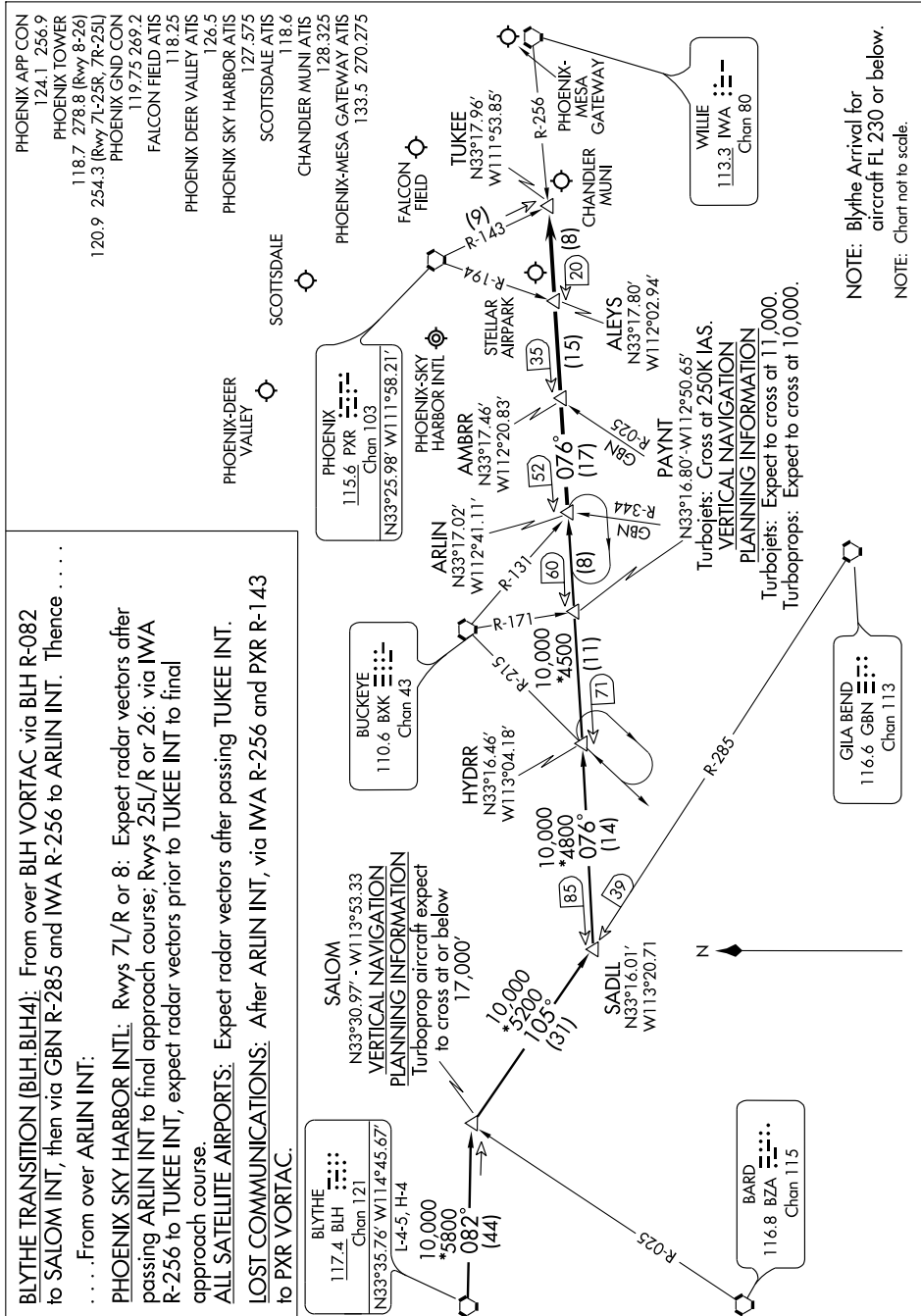
LYNSY TRANSITION (BARGN1.LYNSY)

NEEDLES TRANSITION (BARGN1.EED)

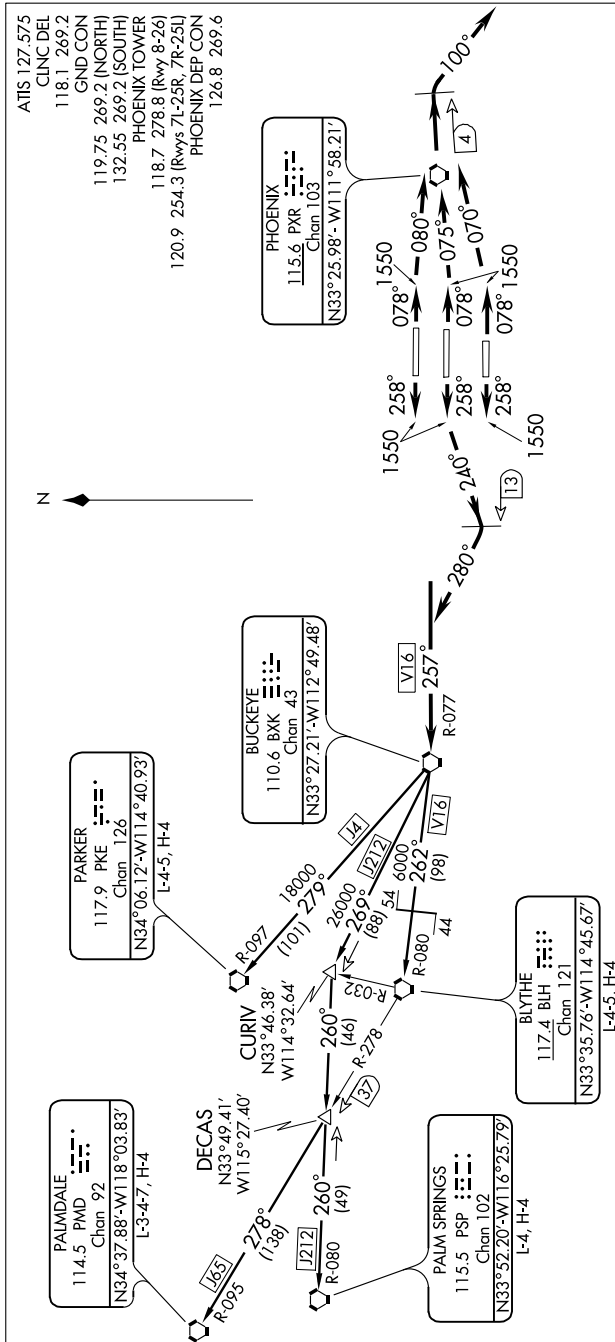
BLYTHE FOUR ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA



BUCKEYE TWO DEPARTURE



NOTE: Aircraft requesting FL 220 and below must file BLYTHE TRANSITION.

NOTE: BUCKEYE DEPARTURE restricted to turbojet and turboprop aircraft only.

NOTE: Turbojets landing LAX, file PARKER TRANSITION.

NOTE: Aircraft landing other than LAX and turboprops landing at LAX:
requesting FL240 and above, file PALMDALE or PALM SPRINGS TRANSITION.

NOTE: DME and RADAR required.

NOTE: Chart not to scale.

TAKE-OFF MINIMUMS

Rwy 7L/7R/8: Standard with minimum
climb of 300' per NM to 7000.Rwy 25L/25R/26: Standard with minimum
climb of 350' per NM to 7000.

(NOTES CONTINUED ON FOLLOWING PAGE)

(NARRATIVE ON FOLLOWING PAGE)

BUCKEYE TWO DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb via 078° heading to 1550 then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°, maintain 7000, expect radar vectors to BXX VORTAC. Expect further clearance to filed altitude 3 minutes after departure.

TAKE-OFF RUNWAY 7L: Climb via 078° heading to 1550 then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°, maintain 7000, expect radar vectors to BXX VORTAC. Expect further clearance to filed altitude 3 minutes after departure.

TAKE-OFF RUNWAY 7R: Climb via 078° heading to 1550 then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°, maintain 7000, expect radar vectors to BXX VORTAC. Expect further clearance to filed altitude 3 minutes after departure.

TAKE-OFF RUNWAY 25L/25R/26: Climb via 258° heading to 1550 then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXX R-077 to BXX VORTAC. Maintain 7000, expect further clearance to filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

BLTYHE TRANSITION (BXX2.BLH): From over BXX VORTAC via BXX R-262 and BLH R-080 to BLH VORTAC.

PALMDALE TRANSITION (BXX2.PMD): From over BXX VORTAC via BXX R-269 and PSP R-080 to DECAS INT, then via BLH R-278 and PMD R-095 to PMD VORTAC.

PALM SPRINGS TRANSITION (BXX2.PSP): From over BXX VORTAC via BXX R-269 and PSP R-080 to PSP VORTAC.

PARKER TRANSITION (BXX2.PKE): From over BXX VORTAC via BXX R-279 and PKE R-097 to PKE VORTAC.

TAKEOFF NOTES CONT.

TAKE-OFF OBSTACLES

NOTE: Rwy 7L, building 1332' from departure end of runway, 798' left of centerline, 67' AGL/1176' MSL.

NOTE: Rwy 7R, rod 716' from departure end of runway, 184' right of centerline, 87' AGL/1196' MSL.

NOTE: Rwy 8, light standard 3530' from departure end of runway, 1207' left of centerline, 123' AGL/1232' MSL.

Rwy 8, light standard 3479' from departure end of runway, 1003' left of centerline, 118' AGL/1227' MSL.

NOTE: Rwy 25L, light standard 1129' from departure end of runway, 774' left of centerline, 91' AGL/1200' MSL.

NOTE: Rwy 26, light 59' from departure end of runway, 63' right of centerline, 16' AGL/1125' MSL.

Rwy 26, pole 58' from departure end of runway, 90' right of centerline, 25' AGL/1125' MSL.

Rwy 26, light 78' from departure end of runway, 64' right of centerline, 18' AGL/1127' MSL.

Rwy 26, light 38' from departure end of runway, 440' left of centerline, 24' AGL/1135' MSL.

Rwy 26, building, 2.32 NM from departure end of runway, 3309' right of centerline, 406' AGL/1496' MSL.

Rwy 26, building 2.28 NM from departure end of runway, 3612' right of centerline, 663' AGL/1750' MSL.

Rwy 26, tree 234' from departure end of runway, 214' right of centerline, 24' AGL/1133' MSL.

Rwy 26, light standard 77' from departure end of runway, 453' left of centerline, 27' AGL/1136' MSL.

Rwy 26, light standard 74' from departure end of runway, 456' right of centerline, 33' AGL/1142' MSL.

Rwy 26, light standard 77' from departure end of runway, 434' right of centerline, 31' AGL/1140' MSL.

Rwy 26, light standard 64' from departure end of runway, 68' left of centerline, 1125' MSL.

Rwy 26, tree 113' from departure end of runway, 294' right of centerline, 24' AGL/1133' MSL.

BUNTR TWO ARRIVAL

ST-322 (FAA)

PHOENIX SKY HARBOR INTL
PHOENIX, ARIZONA

PHOENIX APP CON

128.65 353.8

PHOENIX TOWER

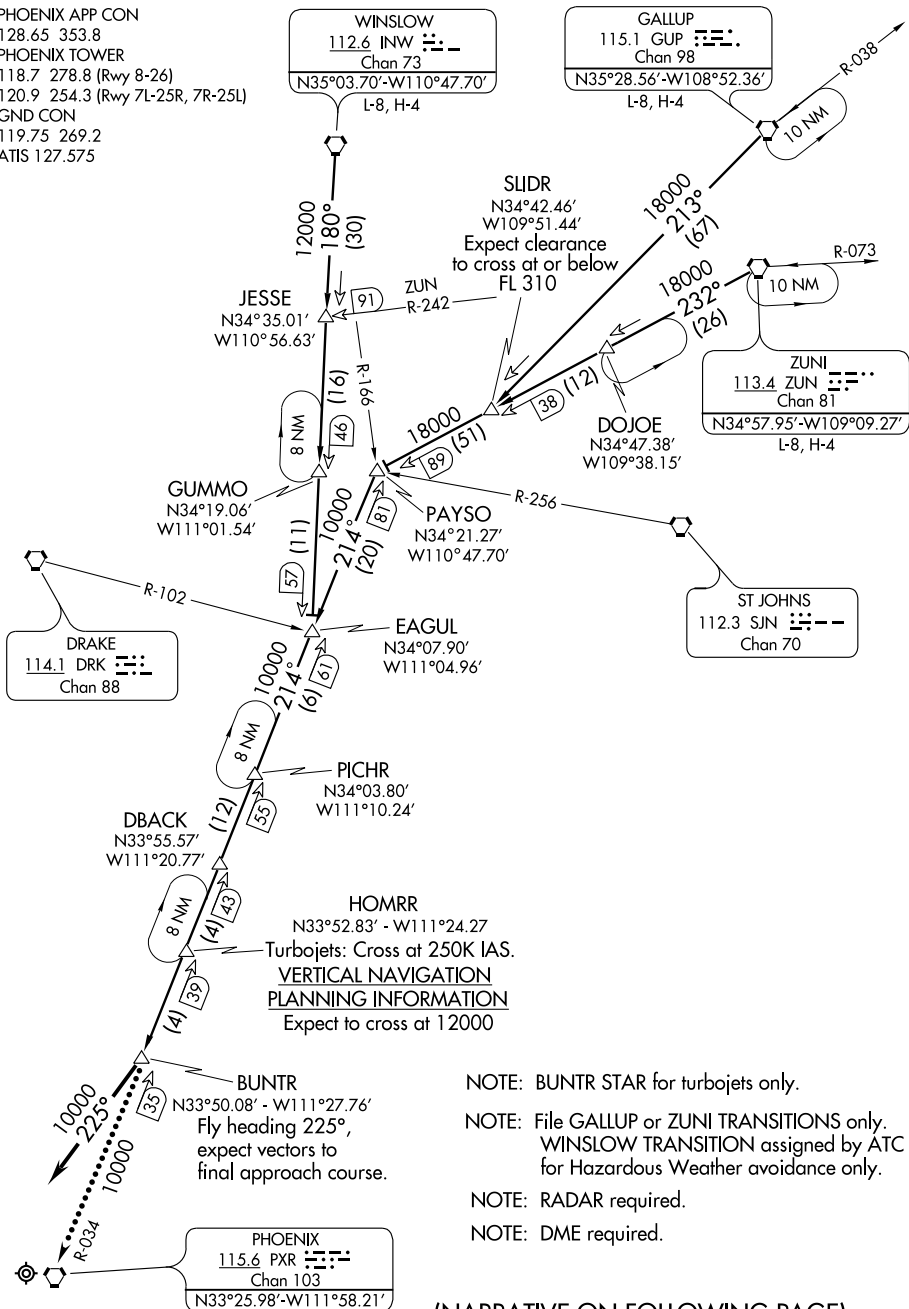
118.7 278.8 (Rwy 8-26)

120.9 254.3 (Rwy 7L-25R, 7R-25L)

GND CON

119.75 269.2

ATIS 127.575



SW-4, 14 JAN 2010 to 11 FEB 2010

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

GALLUP TRANSITION (GUP.BUNTR2): From over GUP VORTAC via GUP R-213 and ZUN R-232 to PAYSO INT, then via PXR R-034 to BUNTR INT. Thence. . . .

WINSLOW TRANSITION (INW.BUNTR2): From over INW VORTAC via INW R-180 to EAGUL INT, then via PXR R-034 to BUNTR INT. Thence. . . .

ZUNI TRANSITION (ZUN.BUNTR2): From over ZUN VORTAC via ZUN R-232 to PAYSO INT, then via PXR R-034 to BUNTR INT. Thence. . . .

. . . . From over BUNTR INT, fly heading 225°. Expect vectors to Final Approach Course.

LOST COMMUNICATIONS:

After BUNTR INT, proceed direct PXR VORTAC.

CHEZZ TWO DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7L: Climb via 078° course to ZILLA WP, then via 075° track to CHEZZ WP, Thence

TAKE-OFF RUNWAY 7R: Climb via 078° course to TRAGZ WP, then via 074° track to CHEZZ WP, Thence

TAKE-OFF RUNWAY 8: Climb via 078° course to PRIMY WP, then via 087° track to CHEZZ WP, Thence

. . . . then via (transition) maintain 7000, expect filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (CHEZZ2.ABQ)

BLYTHE TRANSITION (CHEZZ2.BLH): (Restricted to FL220 and below).

COCHISE TRANSITION (CHEZZ2.CIE)

DRYHT TRANSITION (CHEZZ2.DRYHT)

EL PASO TRANSITION (CHEZZ2.ELP)

GILA BEND TRANSITION (CHEZZ2.GBN)

LAVAN TRANSITION (CHEZZ2.LAVAN)

NEWMAN TRANSITION (CHEZZ2.EWM)

PALM SPRINGS TRANSITION (CHEZZ2.PSP)

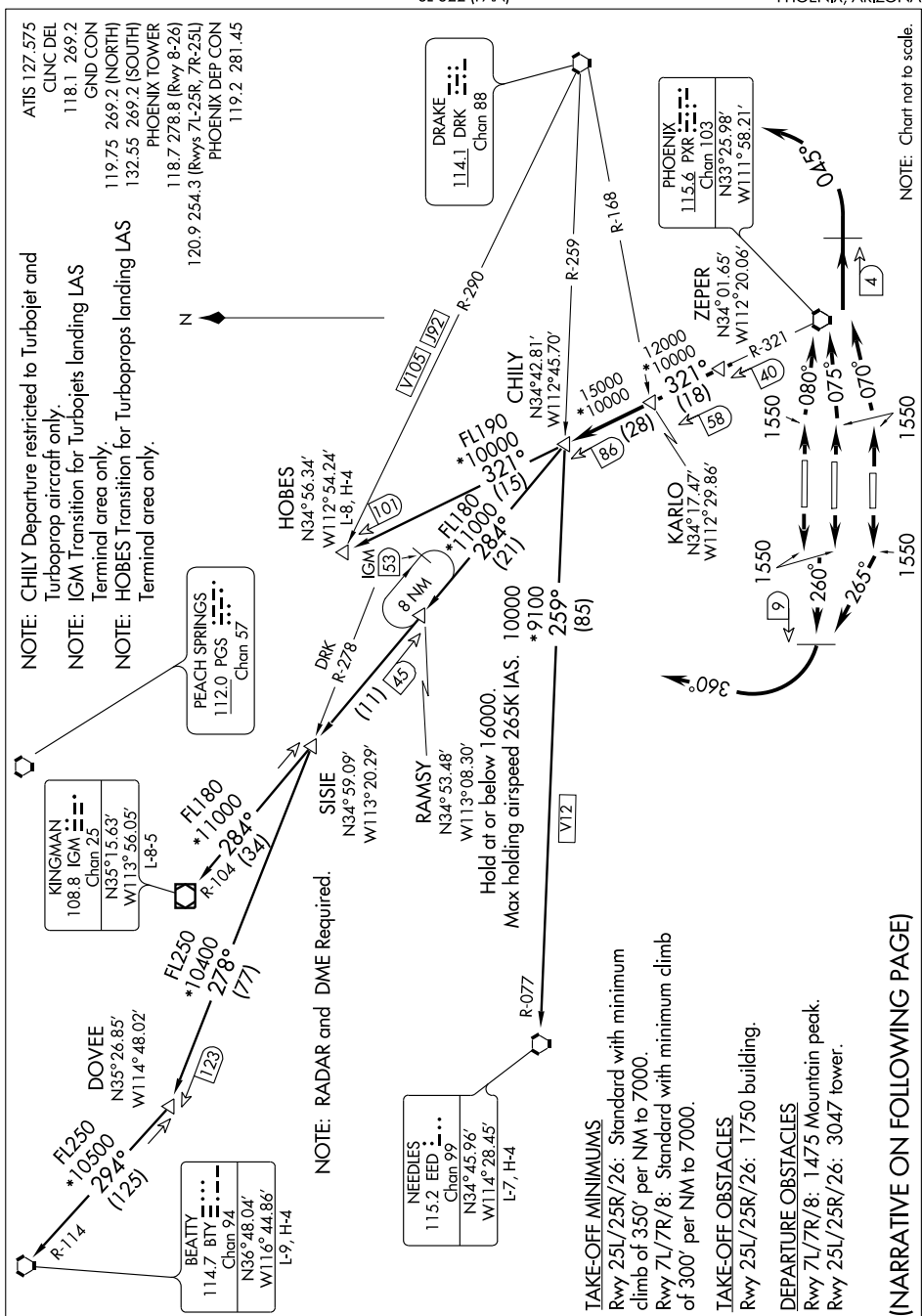
PALMDALE TRANSITION (CHEZZ2.PMD)

PARKER TRANSITION (CHEZZ2.PKE)

STANFIELD TRANSITION (CHEZZ2.TFD)

TUCSON TRANSITION (CHEZZ2.TUS)

TWENTYNINE PALMS TRANSITION (CHEZZ2.TNP)





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7L: Climb runway heading to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°.

Thence....

TAKE-OFF RUNWAY 7R: Climb runway heading to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°.

Thence....

TAKE-OFF RUNWAY 8: Climb runway heading to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°.

Thence....

TAKE-OFF RUNWAY 25L: Climb runway heading to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°.

Thence....

TAKE-OFF RUNWAY 25R: Climb runway heading to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°.

Thence....

TAKE-OFF RUNWAY 26: Climb runway heading to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°.

Thence....

....maintain 7000. Expect radar vectors to PXR R-321 to ZEPER INT then CHILY INT. Then via (transition). Expect filed altitude 3 minutes after departure.

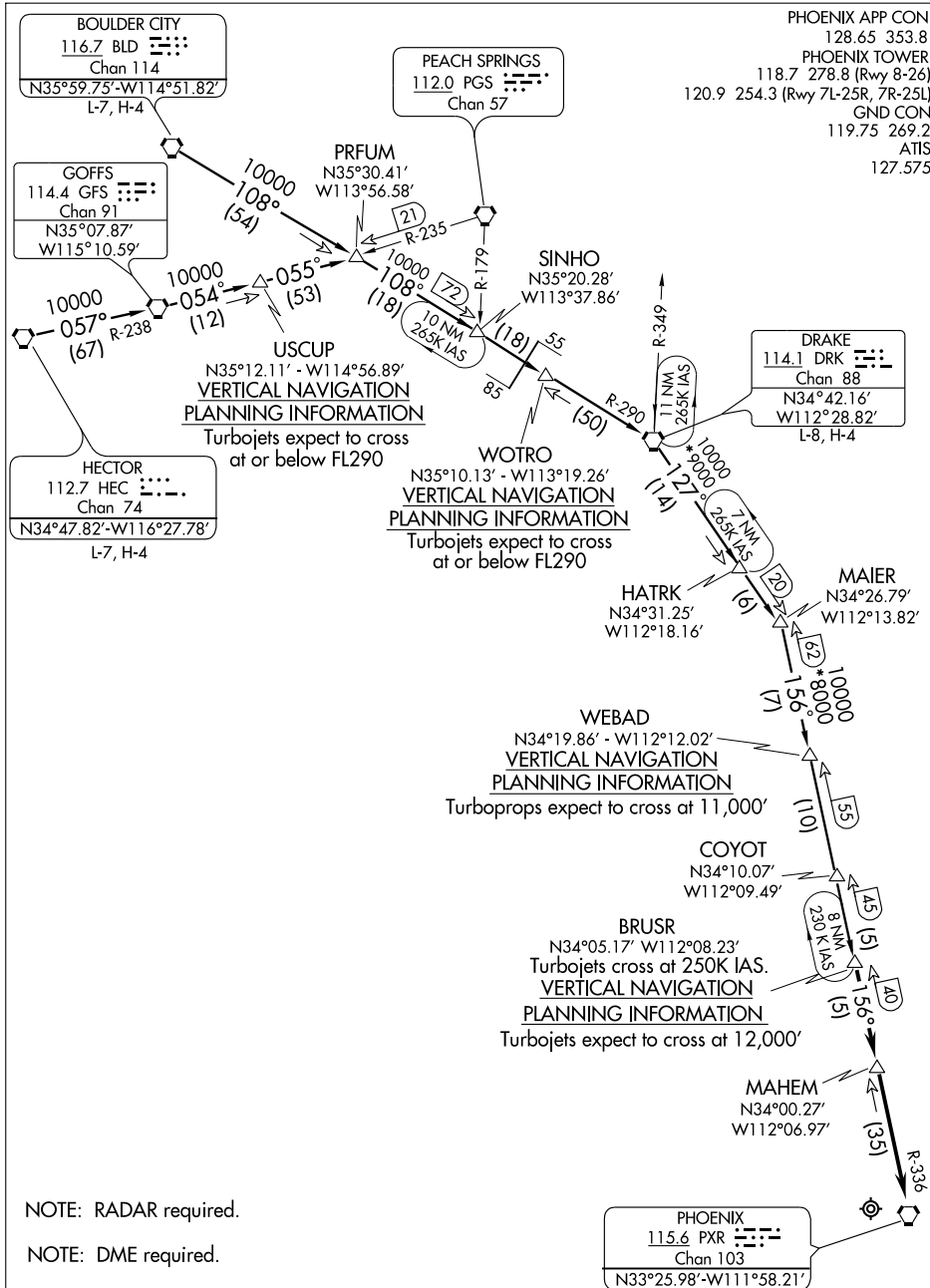
BEATTY TRANSITION (CHILY1.BTY): From over CHILY INT via IGM R-104 to SISIE INT, then via DRK R-278 to DOVEE INT, then via BTY R-114 to BTY VORTAC.

HOBES TRANSITION (CHILY1.HOBES): From over CHILY INT via PXR R-321 to HOBES INT.

KINGMAN TRANSITION (CHILY1.IGM): From over CHILY INT via IGM R-104 to IGM VOR/DME.

NEEDLES TRANSITION (CHILY1.EED): From over CHILY INT via DRK R-259 and EED R-077 to EED VORTAC.

COYOT TWO ARRIVAL



NOTE: RADAR required.

NOTE: DME required.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

COYOT TWO ARRIVAL

PHOENIX, ARIZONA

ARRIVAL DESCRIPTION

BOULDER CITY TRANSITION (BLD.COYOT2): From over BLD VORTAC via BLD R-108 and DRK R-290 to DRK VORTAC, then via DRK R-127 to MAIER INT, then via PXR R-336 to BRUSR INT. Thence....

DRAKE TRANSITION (DRK.COYOT2): From over DRK VORTAC via DRK R-127 to MAIER INT, then via PXR R-336 to BRUSR INT. Thence....

HECTOR TRANSITION (HEC.COYOT2): From over HEC VORTAC via HEC R-057 and GFS R-238 to GFS VORTAC, then via GFS R-054 and PGS R-235 to PRFUM INT, then via BLD R-108 and DRK R-290 to DRK VORTAC, then via DRK R-127 to MAIER INT, then via PXR R-336 to BRUSR INT. Thence....

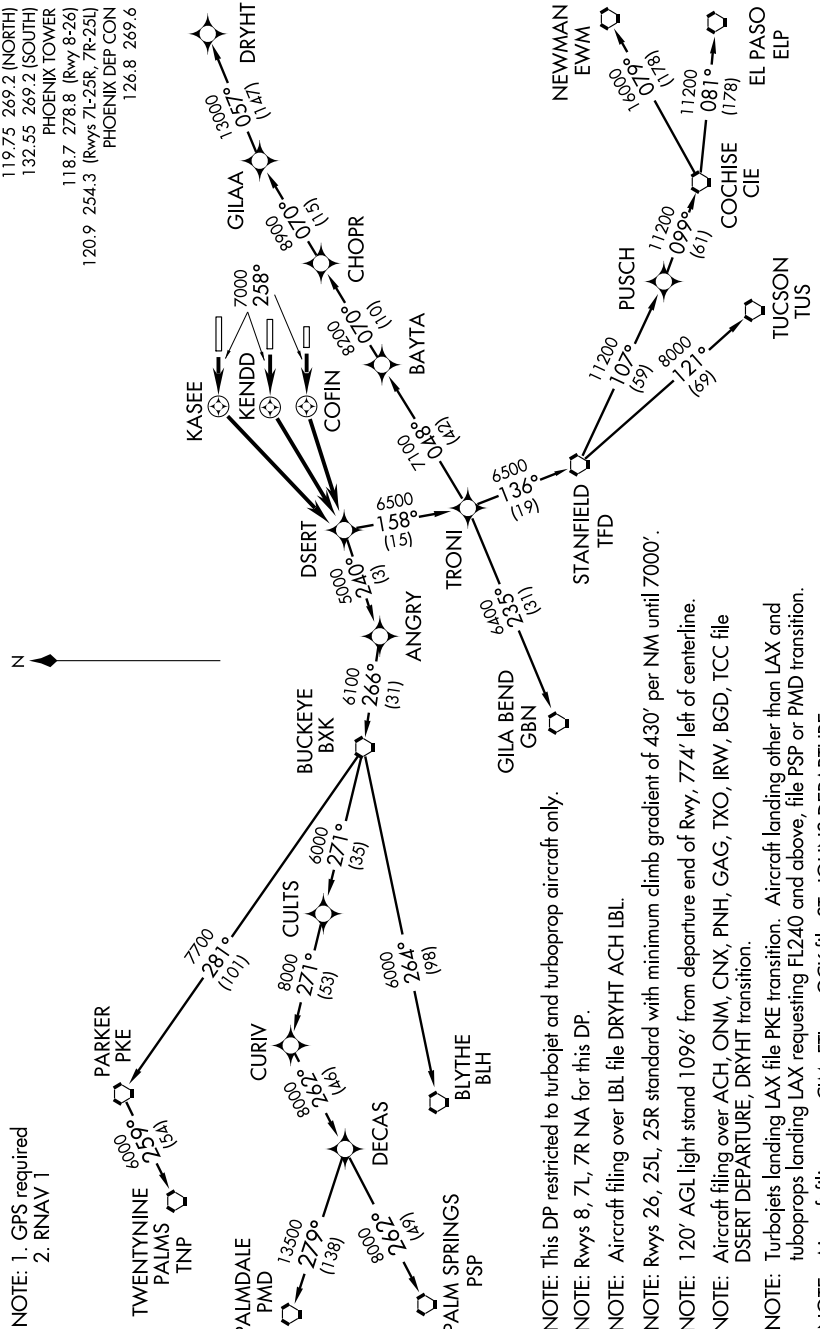
.... From over BRUSR INT via PXR R-336 to PXR VORTAC. After BRUSR INT, expect radar vectors to final approach course.

LOST COMMUNICATIONS: After DRK VORTAC proceed direct to MAIER INT direct PXR VORTAC.

DSERT ONE DEPARTURE (RNAV)

(NARRATIVE ON FOLLOWING PAGE)

- NOTE: RADAR required.
- NOTE: Chart not to scale.
- NOTE: 1. GPS required
- 2. RNAV 1



- NOTE: This DP restricted to turbojet and turboprop aircraft only.
- NOTE: Rwy 8, 7L, 7R NA for this DP.
- NOTE: Aircraft filing over LBL file DRYHT ACH LBL.
- NOTE: Rwy 26, 25L, 25R standard with minimum climb gradient of 430' per NM until 7000'.
- NOTE: 120' AGL light stand 1096' from departure end of Rwy, 774' left of centerline.
- NOTE: Aircraft filing over ACH, ONM, CNX, PNH, GAG, TXO, IRW, BGD, TCC file DSERT DEPARTURE, DRYHT transition.
- NOTE: Turbojets landing LAX file PKE transition. Aircraft landing other than LAX and turboprops landing LAX requesting FL240 and above, file PSP or PMD transition.
- NOTE: Aircraft filing over CIM, FTI, or GCK file ST. JOHNS DEPARTURE.

DSERT ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 26: Climb to 7000 via 258° course to KASEE WP, then direct DSERT WP, Thence

TAKE-OFF RUNWAY 25R: Climb to 7000 via 258° course to KENDD WP, then direct DSERT WP, Thence

TAKE-OFF RUNWAY 25L: Climb to 7000 via 258° course to COFIN WP, then direct DSERT WP, Thence

. . . . then via assigned transition/altitude.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure

BLYTHE TRANSITION (DSERT1.BLH): (Restricted to FL220 and below).

COCHISE TRANSITION (DSERT1.CIE)

DRYHT TRANSITION (DSERT1.DRYHT)

EL PASO TRANSITION (DSERT1.ELP)

GILA BEND TRANSITION (DSERT1.GBN)

NEWMAN TRANSITION (DSERT1.EWM)

PALM SPRINGS TRANSITION (DSERT1.PSP)

PALMDALE TRANSITION (DSERT1.PMD)

PARKER TRANSITION (DSERT1.PKE)

STANFIELD TRANSITION (DSERT1.TFD)

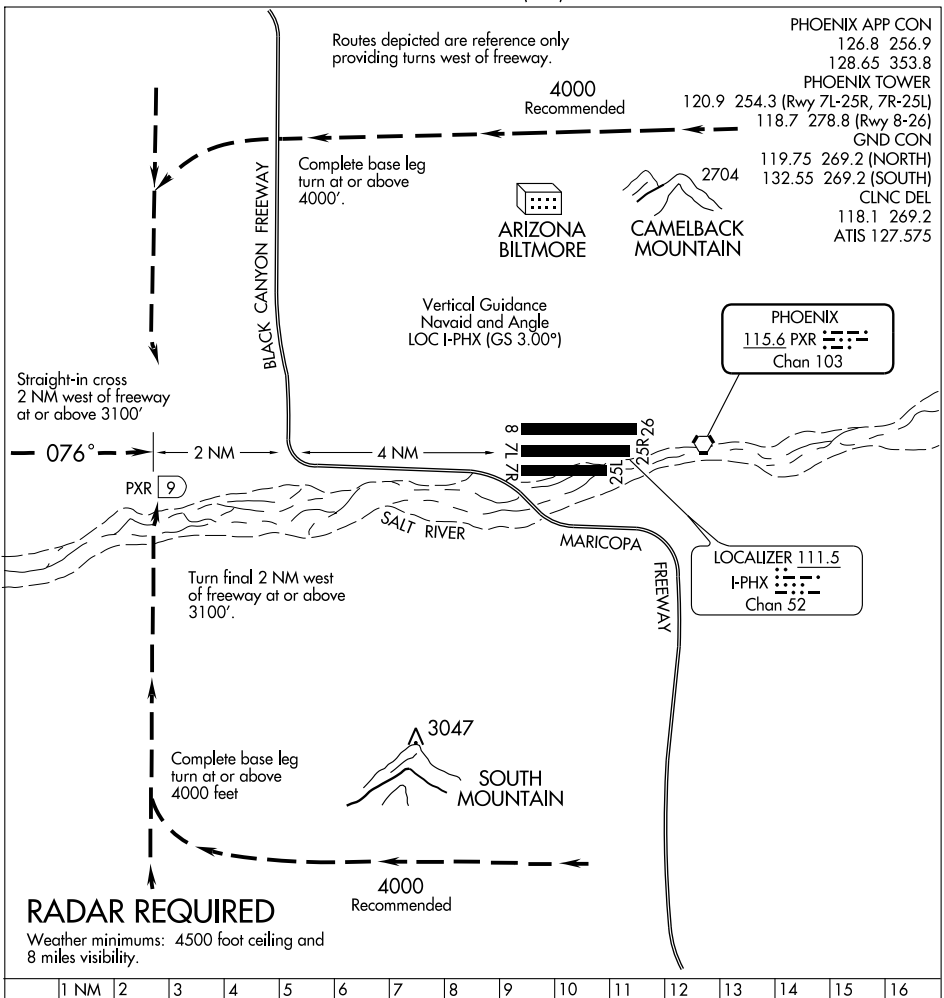
TUCSON TRANSITION (DSERT1.TUS)

TWENTYNINE PALMS TRANSITION (DSERT1.TNP)

FREEWAY VISUAL RWY 7L

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

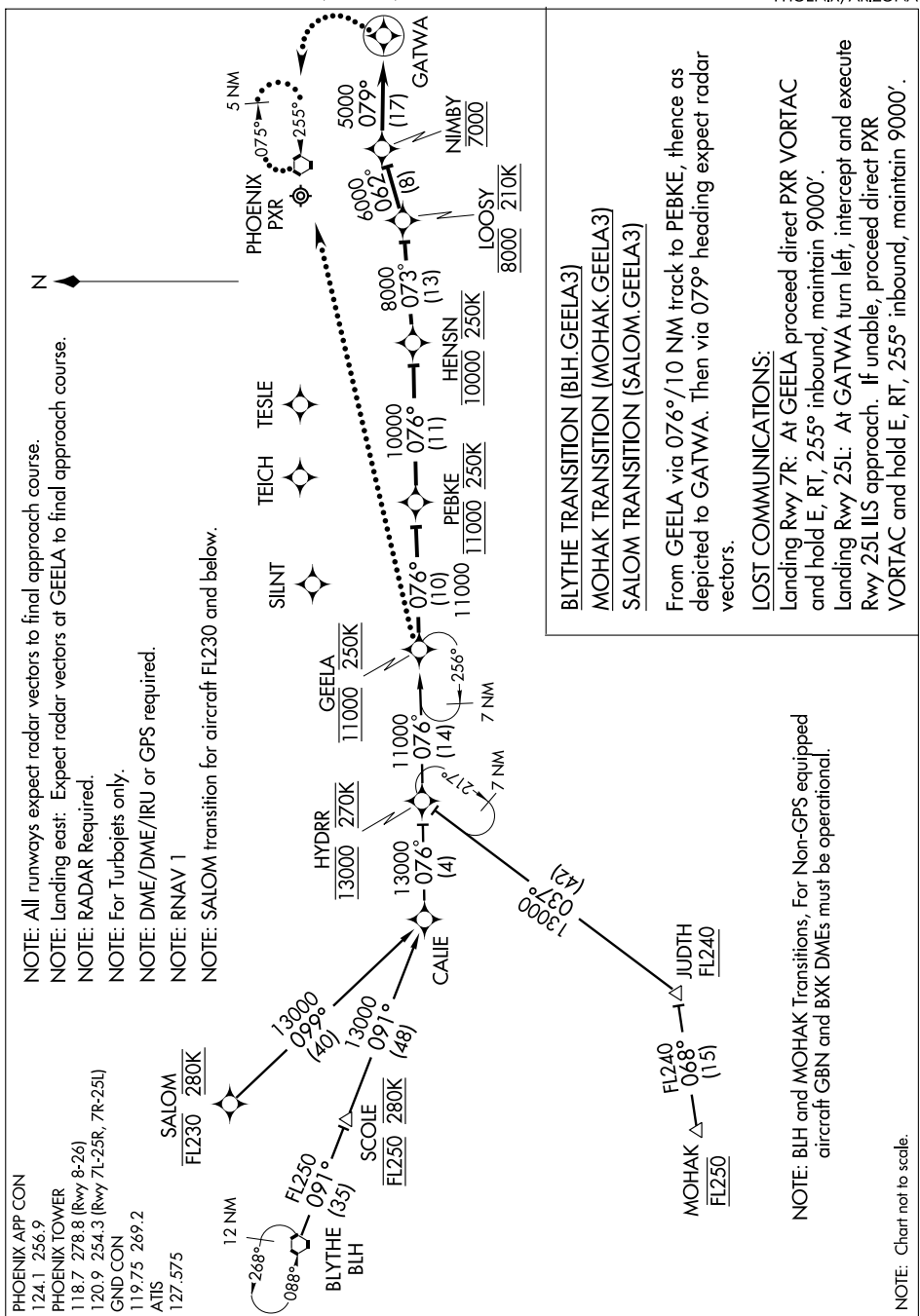


FREEWAY VISUAL RWY 7L

When visual approaches to Runway 7L are in progress, clearances will be given utilizing in part the following phraseology:

"(IDENT) CLEARED FOR A FREEWAY VISUAL RUNWAY 7L APPROACH."

GEELA THREE ARRIVAL (RNAV)



LOC/DME I-PHX 111.5 Chan 52	APP CRS 078°	Rwy Idg 10300 TDZE 1116 Apt Elev 1135
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ILS or LOC RWY 7L

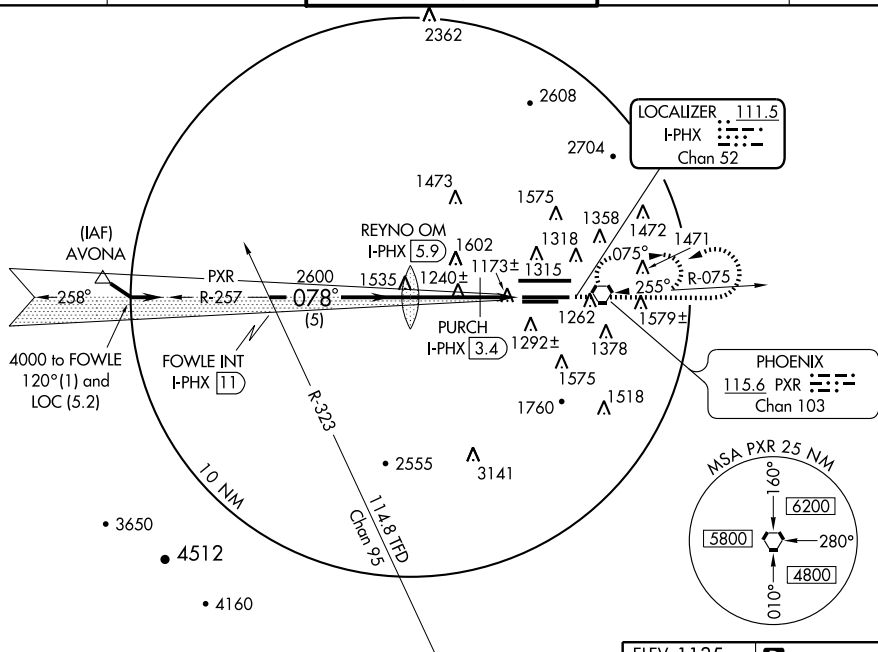
PHOENIX SKY HARBOR INTL (PHX)

T	Inoperative table does not apply to S-ILS 7L.
A	For inoperative MALSR, increase S-LOC 7L Cat A/B visibilities to RVR 5000.

MALSR

MISSED APPROACH: Climb to 5000 then left turn direct
PXR VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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Procedure	VGSI and ILS glidepath not coincident.
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Turn NA

FOWLE INT
I-PHX (11)

REYNO OM
I-PHX (5.9)

PURCH
I-PHX (3.4)

I-PHX (1.9)

GS 3.00°
TCH 50

4000

078°

2600

2445

*1620

*LOC only

Use I-PHX DME when on localizer course.

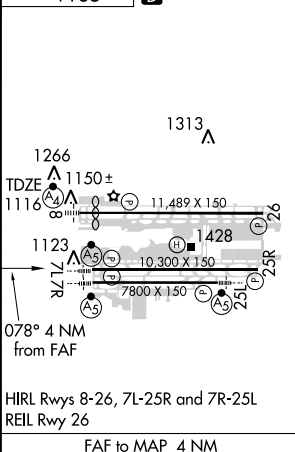
	5 NM		2.5 NM		1.5 NM			
CATEGORY	A		B		C		D	
S-ILS 7L	1321/40				205 (200-¾)			
S-LOC 7L	1620/40 504 (500-¾)				1620/50 504 (500-1)			
CIRCLING	1740-1 605 (700-1)				1740-1¾ 605 (700-1¾)		1920-2½ 785 (800-2½)	

PURCH DME MINIMUMS

S-LOC 7L	1520/40 404 (400-3/4)		
CIRCLING	1740-1 605 (700-1)	1740-1 3/4 605 (700-1 3/4)	1920-2 1/2 785 (800-2 1/2)

ELEV 1135

D



Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

AL-322 (FAA)

LOC/DME I-AHA <u>110.75</u> Chan 44 (Y)	APP CRS 078°	Rwy Idg 7800 TDZE 1116 Apt Elev 1135
---	------------------------	---

ILS or LOC RWY 7R

PHOENIX SKY HARBOR INTL (PHX)

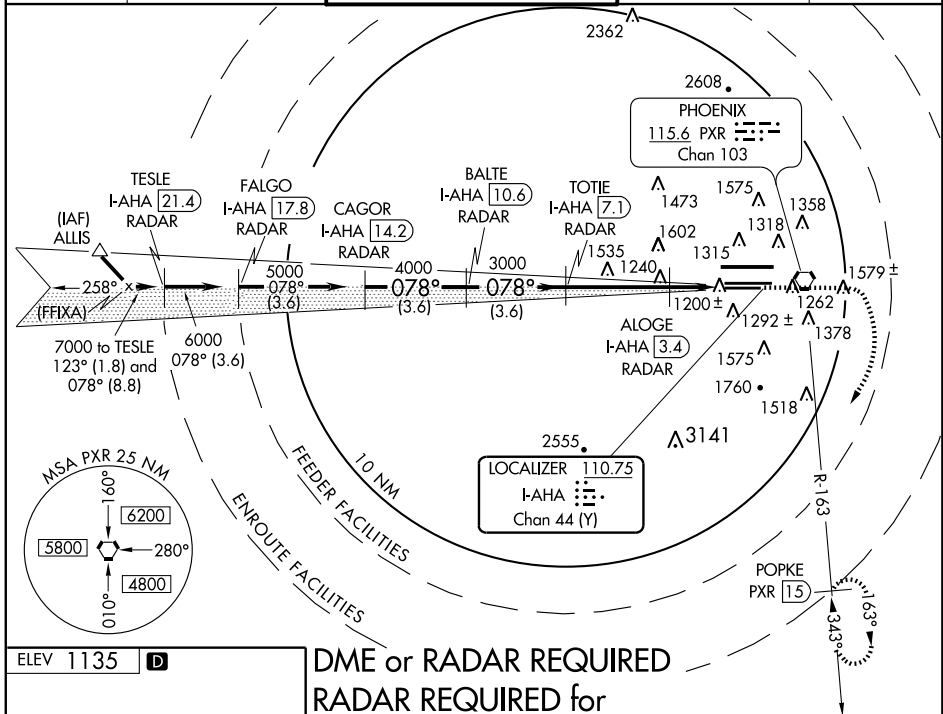
T Inoperative table does not apply to S-ILS 7R.
A For inoperative MALS R, increase S-LOC 7R Cat A/B visibility to 1 mile.
 Visibility reduction by helicopters NA.

MALSR



MISSED APPROACH: Climb to 3000 then climbing right turn to 5000 via heading 250° and PXR R-163 to POPKE/15 DME and hold.

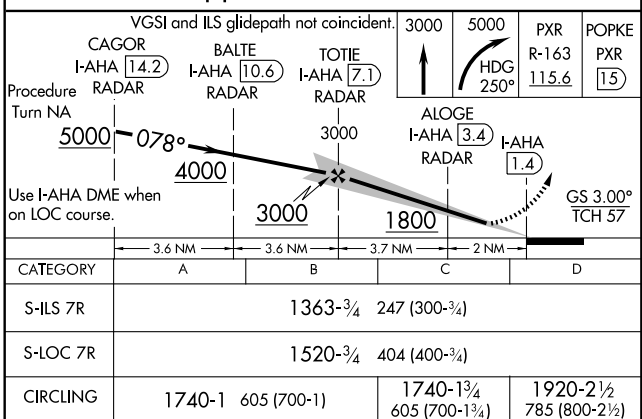
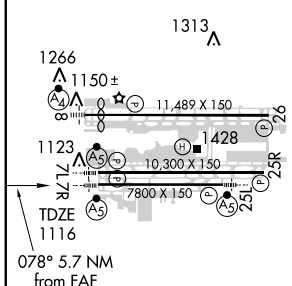
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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SW-4. 14 JAN 2010 to 11 FEB 2010

ELEV	1135	D
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DME or RADAR REQUIRED
RADAR REQUIRED for
simultaneous approaches.



HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

▼

▲

MALSF

MISSED APPROACH: Climb to 3000, then climbing left turn to 5000 via heading 280° and PXR R-336 to AVENT/INT 15.9 DME and hold.

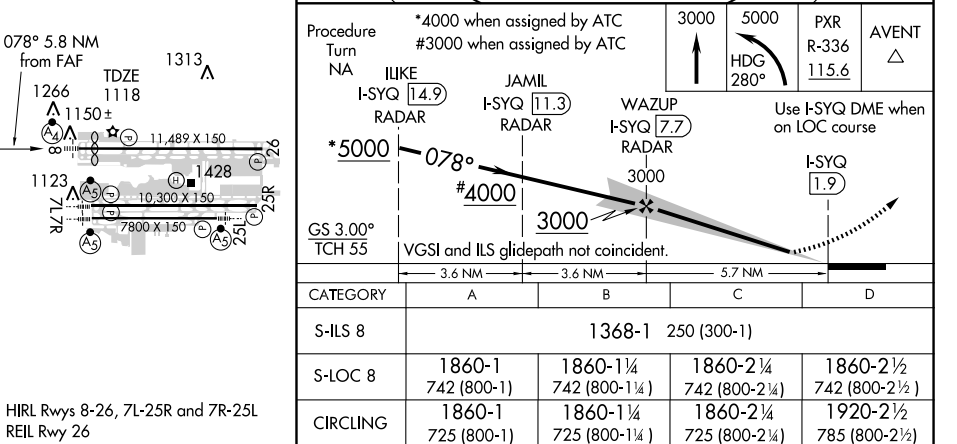
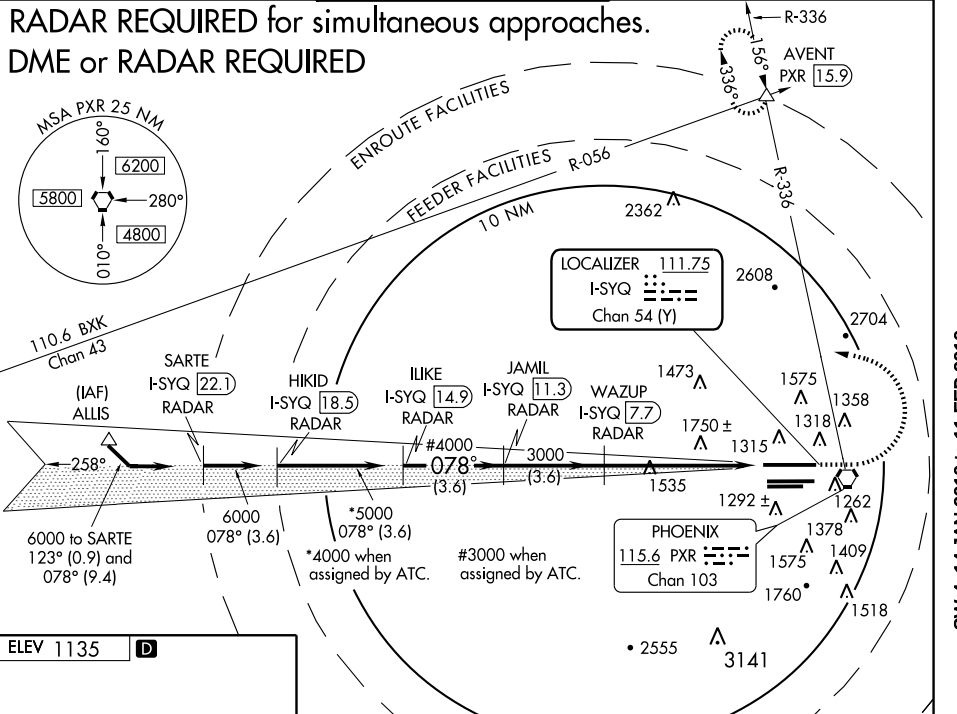
ATIS
127.575

PHOENIX APP CON
128.65 353.8

PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)

GND CON
119.75 269.2 (N)
132.55 269.2 (S)

CLNC DEL
118.1 269.2



SW-4, 14 JAN 2010 to 11 FEB 2010

AL-322 (FAA)

LOC/DME I-RJG 110.75 Chan 44 (Y)	APP CRS 258°	Rwy Idg 7800 TDZE 1124 Apt Elev 1135
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ILS or LOC RWY 25L
PHOENIX SKY HARBOR INTL (PHX)

T Autopilot coupled approach NA below
A 1925 feet.

MALSR

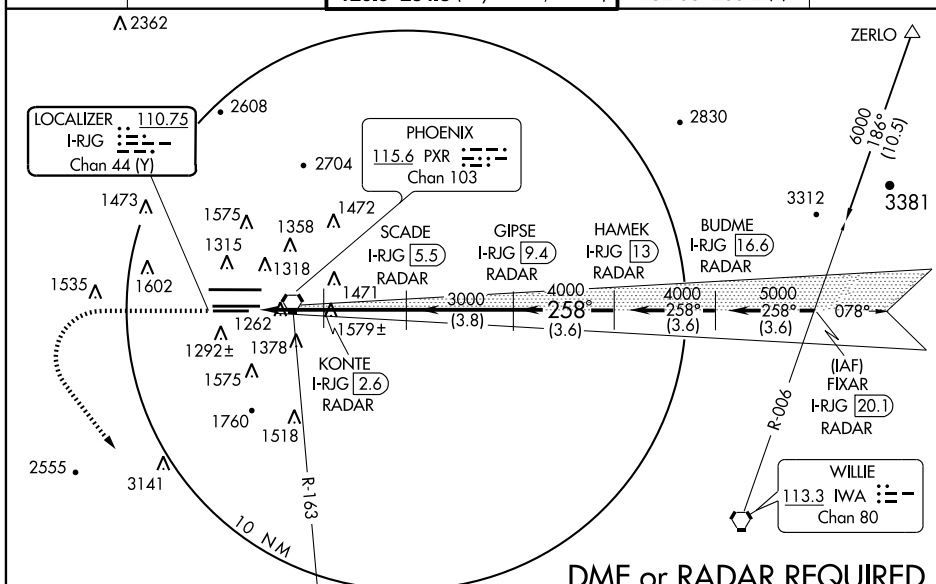
MISSED APPROACH: Climb to 3000, then climbing left turn to 5000 via heading 130° and PXR R-163 to POPKE/15 DME and hold.

ATIS	PHOENIX APP CON
127.575	128.65 353.8

PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)

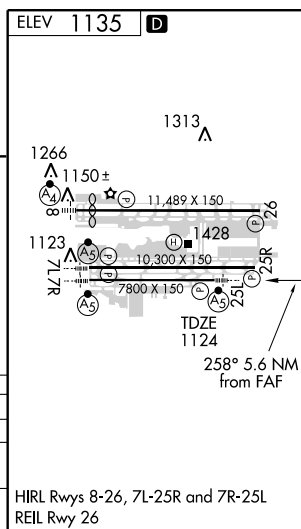
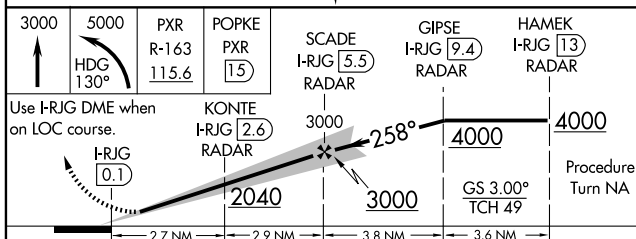
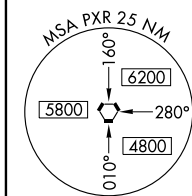
GND CON
119.75 269.2 (N)
132.55 269.2 (S)

CLNC DEL
118.1 269.2



DME or RADAR REQUIRED
for simultaneous approaches.

RADAR REQUIRED for simultaneous approaches.



SW-4. 14 JAN 2010 to 11 FEB 2010

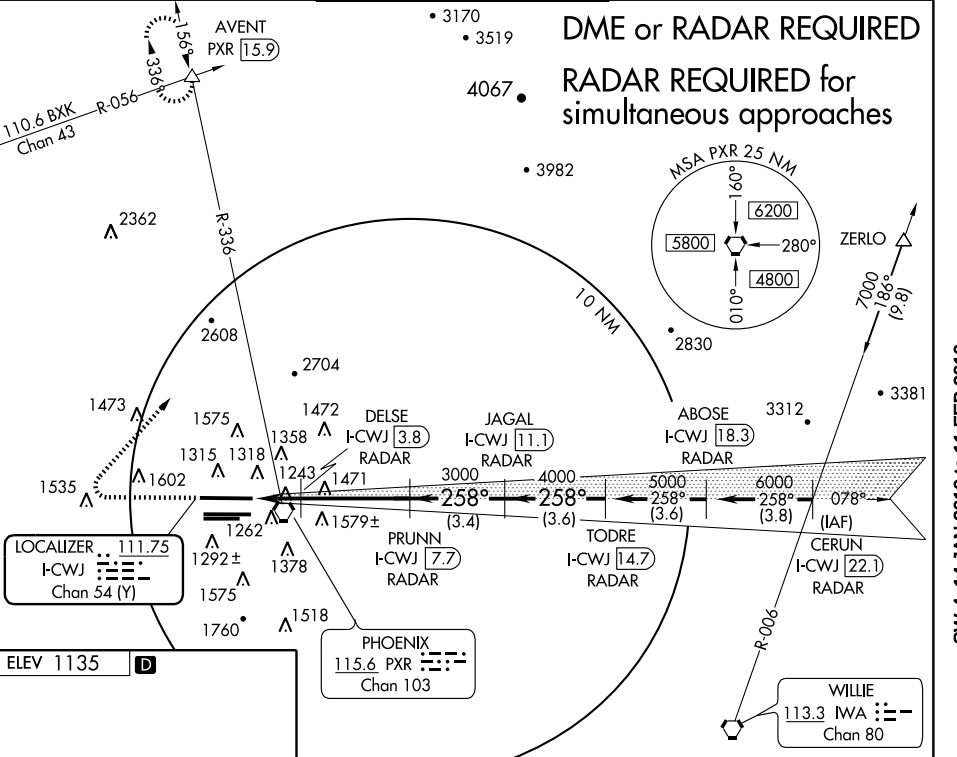
LOC/DME I-CWJ	APP CRS	Rwy Idg	11489
111.75	258°	TDZE	1135
Chan 54 (Y)		Apt Elev	1135

T

A

MISSED APPROACH: Climb to 2500, then climbing right turn to 5000 via heading 030° and PXR R-336 to AVENT INT/15.9 DME and hold.

ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL
127.575	128.65 353.8	118.7 278.8 (Rwy 8-26)	119.75 269.2 (N)	118.1 269.2
		120.9 254.3 (Rwy 7L-25R, 7R-25L)	132.55 269.2 (S)	



CATEGORY		A	B	C	D
S-ILS 26		1386-3/4 251 (300-3/4)			
S-LOC 26		1580-1	445 (500-1)	1580-1 1/4 445 (500-1 1/4)	1580-1 1/2 445 (500-1 1/2)
CIRCLING		1740-1	605 (700-1)	1740-1 3/4 605 (700-1 3/4)	1920-2 1/2 785 (800-2 1/2)

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

HIRL Rwy 26

REIL Rwy 26

SW-4, 14 JAN 2010 to 11 FEB 2010

PHOENIX APP CON

128.65 353.8

PHOENIX TOWER

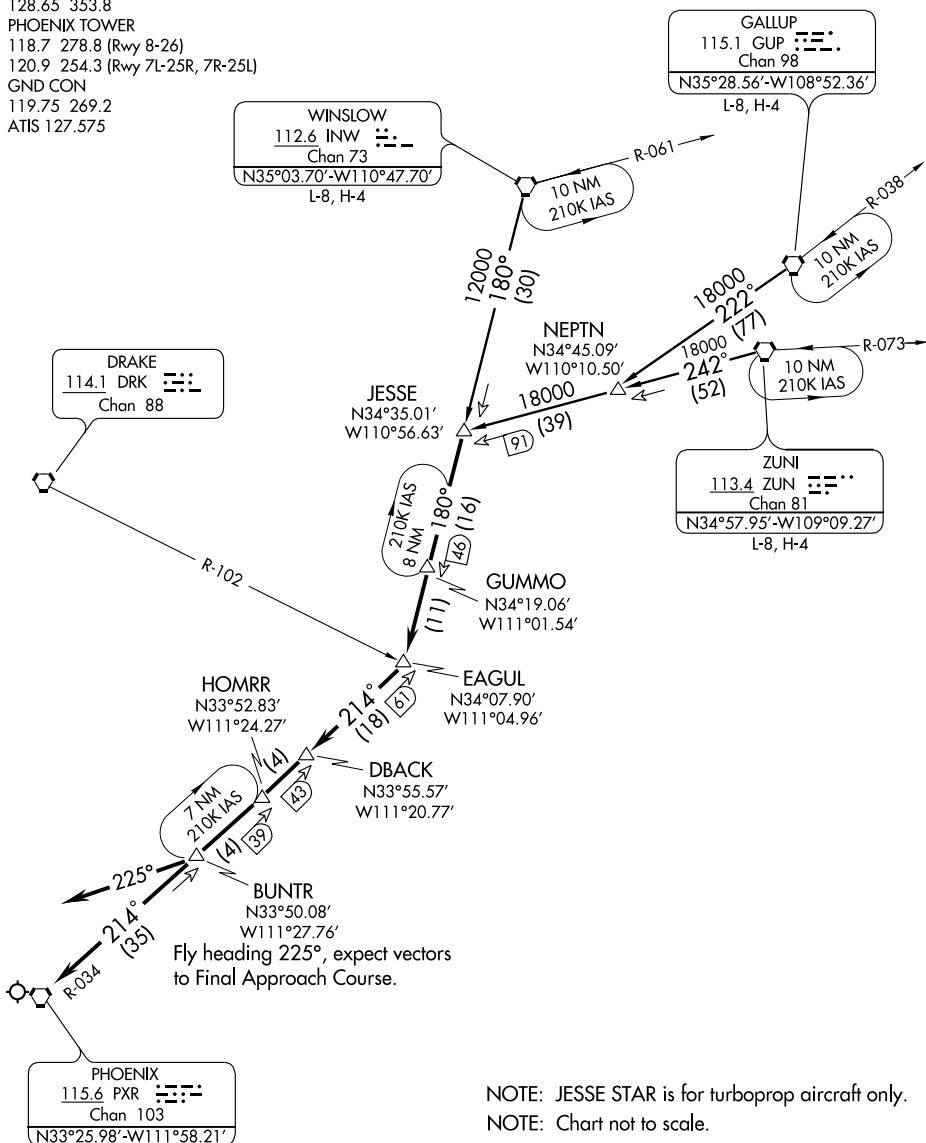
118.7 278.8 (Rwy 8-26)

120.9 254.3 (Rwy 7L-25R, 7R-25L)

GND CON

119.75 269.2

ATIS 127.575



(NARRATIVE ON FOLLOWING PAGE)

JESSE ONE ARRIVAL

ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.JESSE1): From over GUP VORTAC via GUP R-222 and ZUN R-242 to JESSE INT. Thence. . . .

WINSLOW TRANSITION (INW.JESSE1): From over INW VORTAC via INW R-180 to JESSE INT. Thence. . . .

ZUNI TRANSITION (ZUN.JESSE1): From over ZUN VORTAC via ZUN R-242 to JESSE INT. Thence. . . .

. . . .From over JESSE INT via INW R-180 to EAGUL INT, then via PXR R-034 to PXR VORTAC.

LOST COMMUNICATIONS:

After DBACK INT, proceed direct to PXR VORTAC.

KOOLY TWO ARRIVAL (RNAV) ST-322 (FAA)

PHOENIX APP CON	124.1 256.9
PHOENIX TOWER	118.7 278.8 (Rwy 8-26)
	120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON	119.75 269.2
red.	127.575

NOTE: For turbojet aircraft only.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

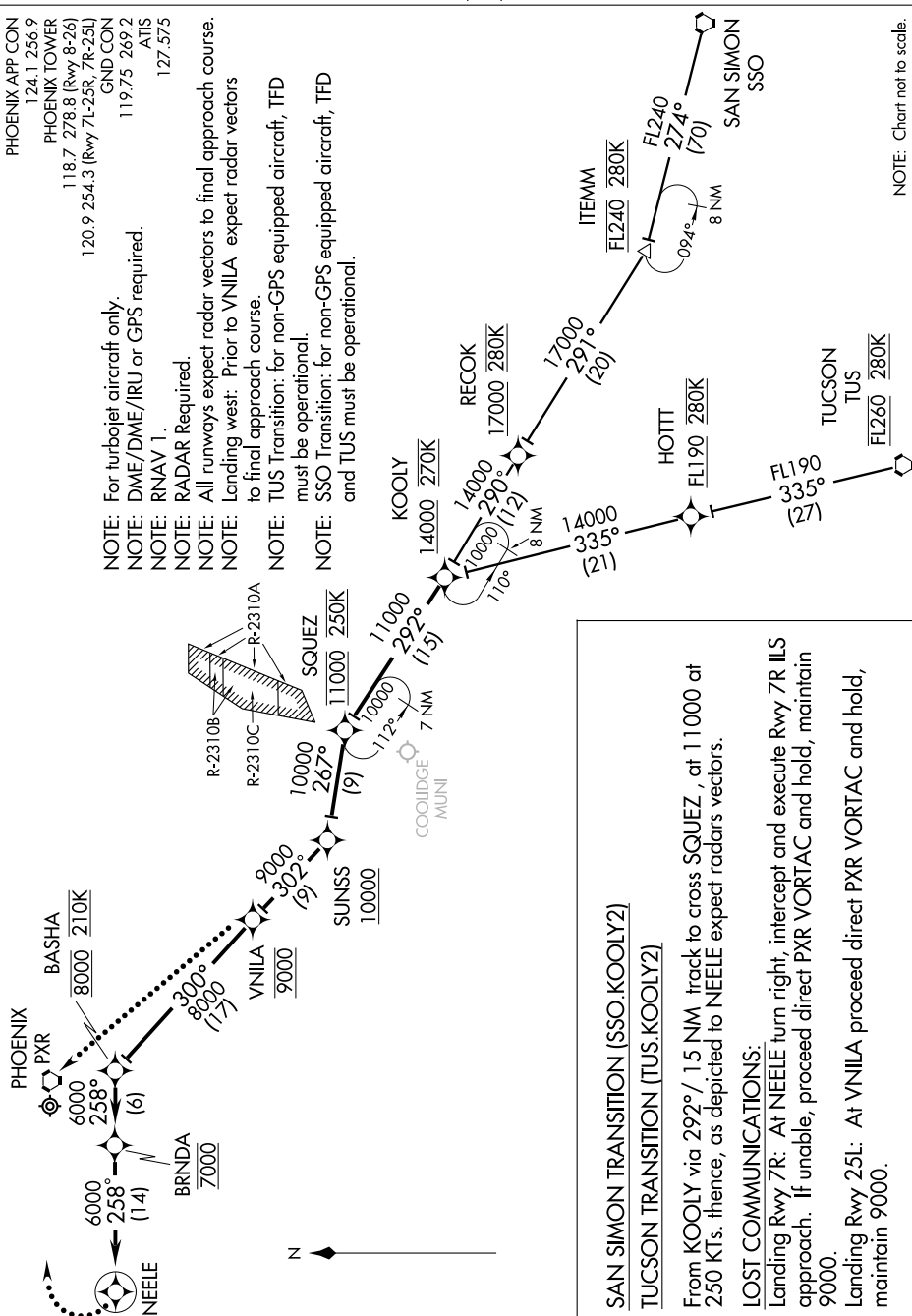
NOTE: RADAR Required.

NOTE: All runways expect radar vectors to final approach course.

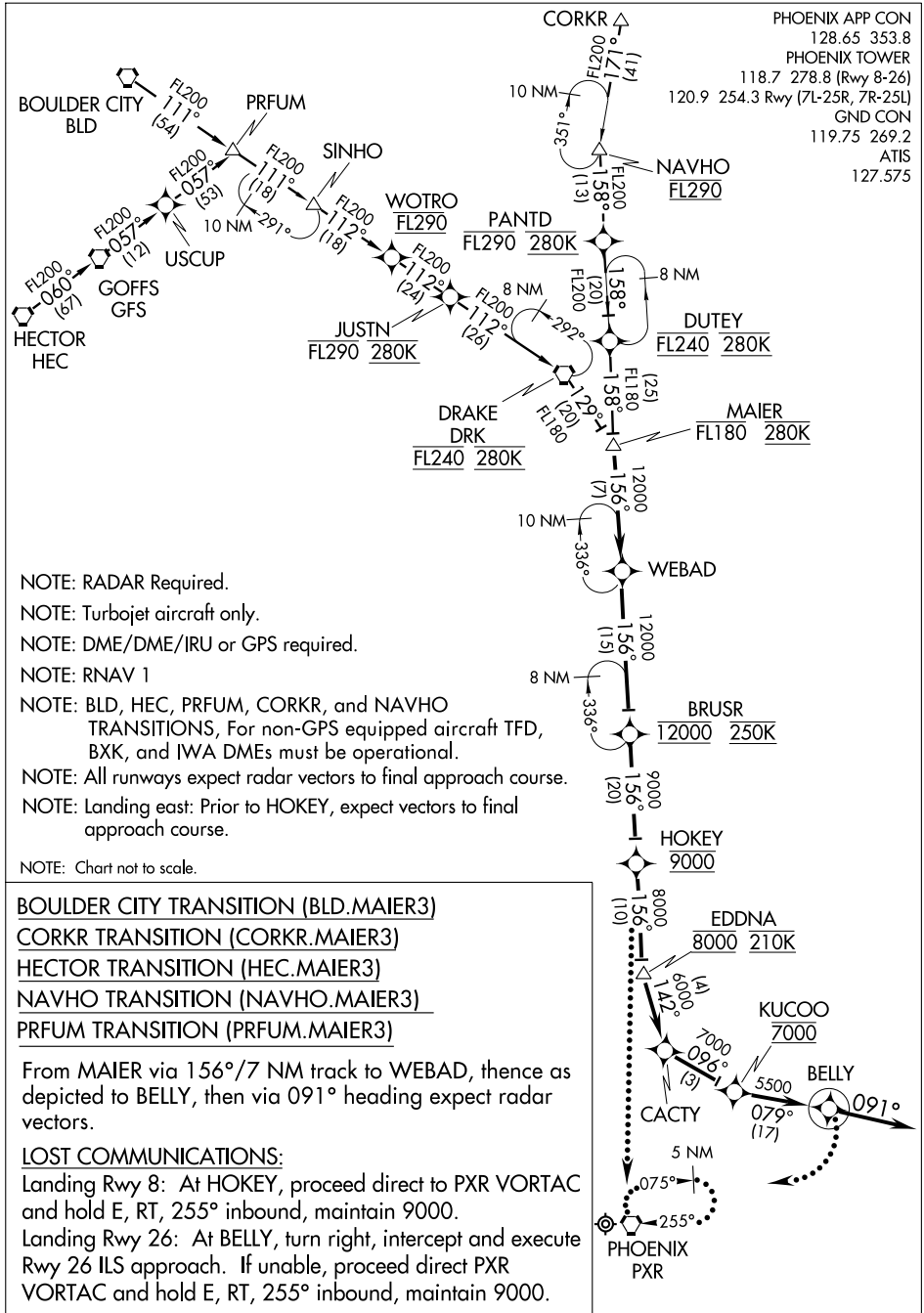
NOTE: Landing west: Prior to VNILA expect radar vectors to final approach course.

NOTE: TUS Transition: for non-GPS equipped aircraft, TFD must be operational.

NOTE: SSO Transition: for non-GPS equipped aircraft, TFD and TUS must be operational.



MAIER THREE ARRIVAL (RNAV)





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7L: Climb via 078° heading to 1550 then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 7R: Climb via 078° heading to 1550 then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 8: Climb via 078° heading to 1550 then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 25L/25R/26: Climb via 258° heading to 1550 then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence. . .

. . . maintain 7000, expect radar vectors to PXR R-070 to GILAA/PXR 55 DME, then pilot nav via IWA R-055 to ADYAN/95 DME, cross ADYAN at or above 14000 and proceed via radar vector 055° to join SJN R-078/CNX R-259 to MAXXO/CNX 51 DME; then via (transition). Expect filed altitude 3 minutes after departure.

ANTON CHICO TRANSITION (MAXXO1.ACH): From over MAXXO INT via ONM R-049 and ACH R-231 to ACH VORTAC.

CORONA TRANSITION (MAXXO1.CNX): From over MAXXO INT via CNX R-259 to CNX VORTAC.

TAKEOFF NOTES CONT.

TAKE-OFF OBSTACLES

NOTE: Rwy 7L, building 1298' from departure end of runway, 798' left of centerline, 67' AGL/1176' MSL.

NOTE: Rwy 7R, rod 717' from departure end of runway, 184' right of centerline, 87' AGL/1196' MSL.

NOTE: Rwy 8, light standard 3460' from departure end of runway, 1207' left of centerline, 123' AGL/1232' MSL.

Rwy 8, light standard 3444' from departure end of runway, 1003' left of centerline, 118' AGL/1227' MSL.

NOTE: Rwy 25L, light standard 271' from departure end of runway, 5140' left of centerline, 91' AGL/1200' MSL.

NOTE: Rwy 26, light 59' from departure end of runway, 63' right of centerline, 16' AGL/1125' MSL.

Rwy 26, pole 58' from departure end of runway, 90' right of centerline, 25' AGL/1125' MSL.

Rwy 26, light 78' from departure end of runway, 64' right of centerline, 18' AGL/1127' MSL.

Rwy 26, tree 38' from departure end of runway, 440' right of centerline, 24' AGL/1133' MSL.

Rwy 26, light standard 77' from departure end of runway, 453' right of centerline, 27' AGL/1136' MSL.

Rwy 26, light standard 74' from departure end of runway, 453' right of centerline, 33' AGL/1142' MSL.

Rwy 26, light standard 77' from departure end of runway, 434' right of centerline, 31' AGL/1140' MSL.

Rwy 26, light 38' from departure end of runway, 440' right of centerline, 26' AGL/1135' MSL.

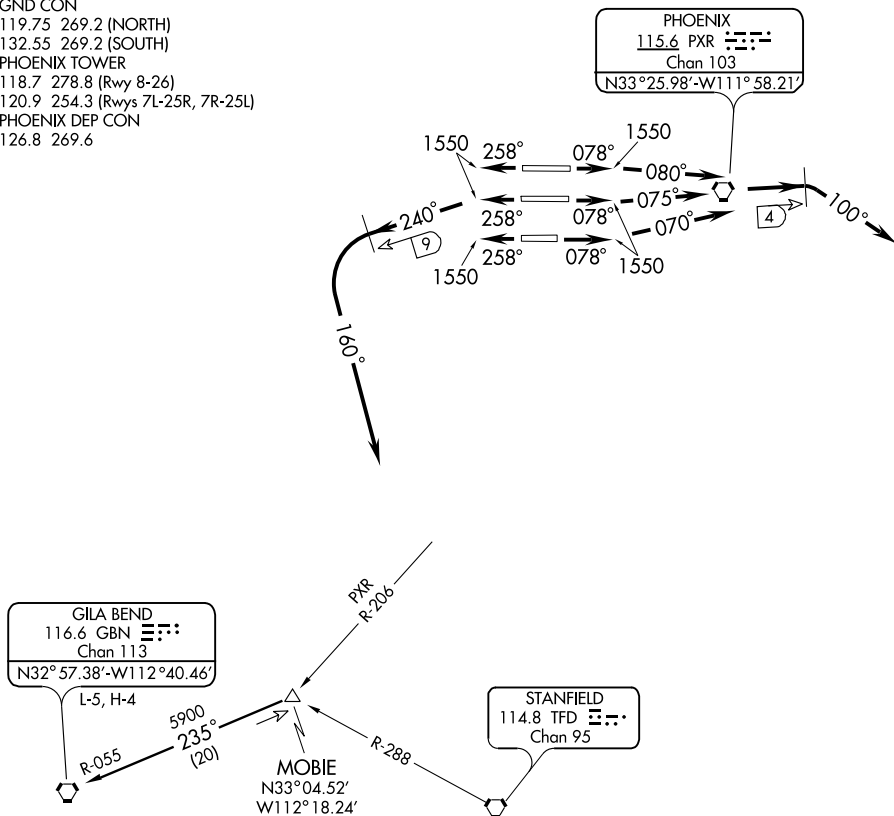
Rwy 26, tree 113' from departure end of runway, 294' left of centerline, 24' AGL/1133' MSL.

Rwy 26, building, 2.27 NM from departure end of runway, 3309' right of centerline, 406' AGL/1496' MSL.

Rwy 26, building 2.23 NM from departure end of runway, 3631' right of centerline, 663' AGL/1750' MSL.

MOBIE TWO DEPARTURE

ATIS 127.575
 CLNC DEL
 118.1 269.2
 GND CON
 119.75 269.2 (NORTH)
 132.55 269.2 (SOUTH)
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwys 7L-25R, 7R-25L)
 PHOENIX DEP CON
 126.8 269.6



TAKE-OFF MINIMUMS

Rwy 7L/7R/8: Standard with minimum climb of 300' per NM to 7000.

Rwy 25L/25R/26: Standard with minimum climb of 350' per NM to 7000.

NOTE: MOBIE DEPARTURE restricted to turbojet and turboprop aircraft only.

NOTE: DME and RADAR required.

(NOTES CONTINUED ON FOLLOWING PAGE)

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

MOBIE TWO DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb via 078° heading to 1550 then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 7L: Climb via 078° heading to 1550 then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 7R: Climb via 078° heading to 1550 then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 25L/25R/26: Climb via 258° heading to 1550 then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . .

.... maintain 7000, expect radar vectors to MOBIE INTERSECTION thence via (transition).
Expect further clearance to filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

GILA BEND TRANSITION (MOBIE2.GBN): From over MOBIE INT via GBN R-055 to GBN VORTAC.

TAKEOFF NOTES CONT.

TAKE-OFF OBSTACLES

NOTE: Rwy 7L, building 1332' from departure end of runway, 798' left of centerline, 67' AGL/1176' MSL.

NOTE: Rwy 7R, rod 716' from departure end of runway, 184' right of centerline, 87' AGL/1196' MSL.

NOTE: Rwy 8, light standard 3530' from departure end of runway, 1207' left of centerline, 123' AGL/1232' MSL.

Rwy 8, light standard 3479' from departure end of runway, 1003' left of centerline, 118' AGL/1227' MSL.

NOTE: Rwy 25L, light standard 1129' from departure end of runway, 774' left of centerline, 120' AGL/1200' MSL.

NOTE: Rwy 26, light 59' from departure end of runway, 63' right of centerline, 16' AGL/1125' MSL.

Rwy 26, pole 58' from departure end of runway, 90' right of centerline, 25' AGL/1125' MSL.

Rwy 26, light 78' from departure end of runway, 64' right of centerline, 18' AGL/1127' MSL.

Rwy 26, light 38' from departure end of runway, 440' left of centerline, 24' AGL/1133' MSL.

Rwy 26, light standard 77' from departure end of runway, 453' left of centerline, 27' AGL/1136' MSL.

Rwy 26, light standard 74' from departure end of runway, 456' right of centerline, 33' AGL/1142' MSL.

Rwy 26, light standard 77' from departure end of runway, 434' right of centerline, 31' AGL/1140' MSL.

Rwy 26, light standard 64' from departure end of runway, 68' left of centerline, 1125' MSL.

Rwy 26, tree 113' from departure end of runway, 294' left of centerline, 24' AGL/1133' MSL.

Rwy 26, building, 2.32 NM from departure end of runway, 3309' right of centerline, 406' AGL/1496' MSL.

Rwy 26, building 2.28 NM from departure end of runway, 3612' right of centerline, 663' AGL/1750' MSL.

Rwy 26, tree 234' from departure end of runway, 214' right of centerline, 24' AGL/1133' MSL

POWER PLANT VISUAL RWY 25R

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

PHOENIX APP CON

126.8 256.9

128.65 353.8

PHOENIX TOWER

120.9 254.3 (Rwy 7L-25R, 7R-25L)

118.7 278.8 (Rwy 8-26)

GND CON

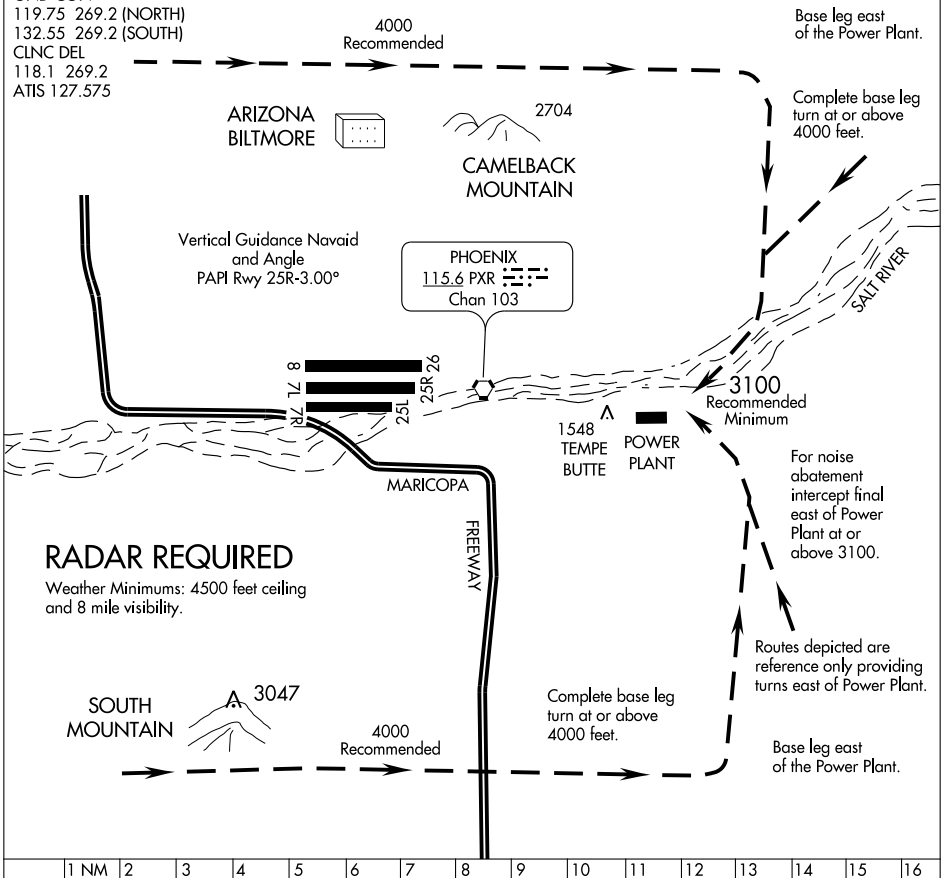
119.75 269.2 (NORTH)

132.55 269.2 (SOUTH)

CLNC DEL

118.1 269.2

ATIS 127.575



POWER PLANT VISUAL RWY 25R

When visual approaches to Runway 25R are in progress, clearances will be given utilizing in part the following phraseology:

"(IDENT) CLEARED FOR A POWER PLANT VISUAL RUNWAY 25R APPROACH"

RIMMM ONE DEPARTURE (RNAV)

ATIS 127.575

CLNC DEL

118.1 269.2

GND CON

119.75 269.2 (NORTH)

132.55 269.2 (SOUTH)

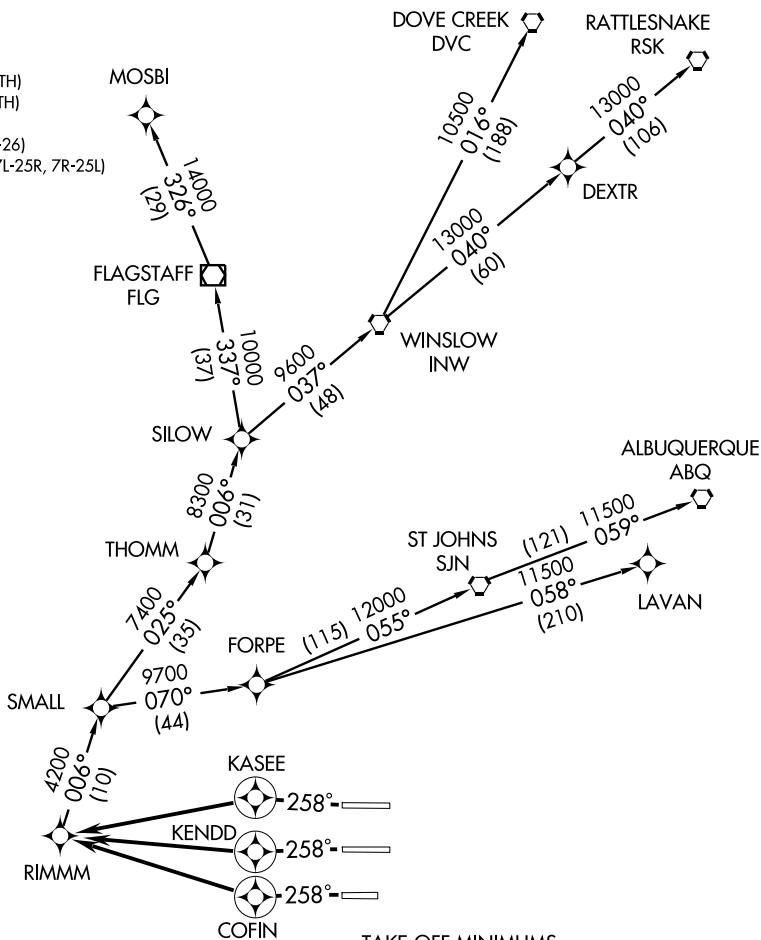
PHOENIX TOWER

118.7 278.8 (Rwy 8-26)

120.9 254.3 (Rwys 7L-25R, 7R-25L)

PHOENIX DEP CON

126.8 269.6

TAKE-OFF MINIMUMS

Rwys 7L/7R/8: NA

Rwys 25L/25R/26: Standard with minimum
climb of 380' per NM to 7000 (ATC).NOTE: 1. GPS required
2. RNAV 1NOTE: RIMMM Departure restricted to turbojet and turboprop
aircraft only.

NOTE: Aircraft filing over CIM, FTI, or GCK file ABQ Transition.

NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNG, GAG, TCC,
BGD, IRW, TXO file DSERT or CHEZZ DP, DRYHT TRANSITION.

NOTE: LAVAN TRANSITION for ABQ arrivals only.

NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

RIMMM ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25L: Climb via 258° course to COFIN WP, then turn right direct RIMMM WP. Thence....

TAKE-OFF RUNWAY 25R: Climb via 258° course to KENDD WP, then turn right direct RIMMM WP. Thence....

TAKE-OFF RUNWAY 26: Climb via 258° course to KASEE WP, then turn left direct RIMMM WP. Thence....

....then via (transition). Maintain 7000, expect filed altitude within three minutes after departure.

ALBUQUERQUE TRANSITION (RIMMM1.ABQ)

DOVE CREEK TRANSITION (RIMMM1.DVC)

FLAGSTAFF TRANSITION (RIMMM1.FLG)

LAVAN TRANSITION (RIMMM1.LAVAN)

MOSBI TRANSITION (RIMMM1.MOSBI)

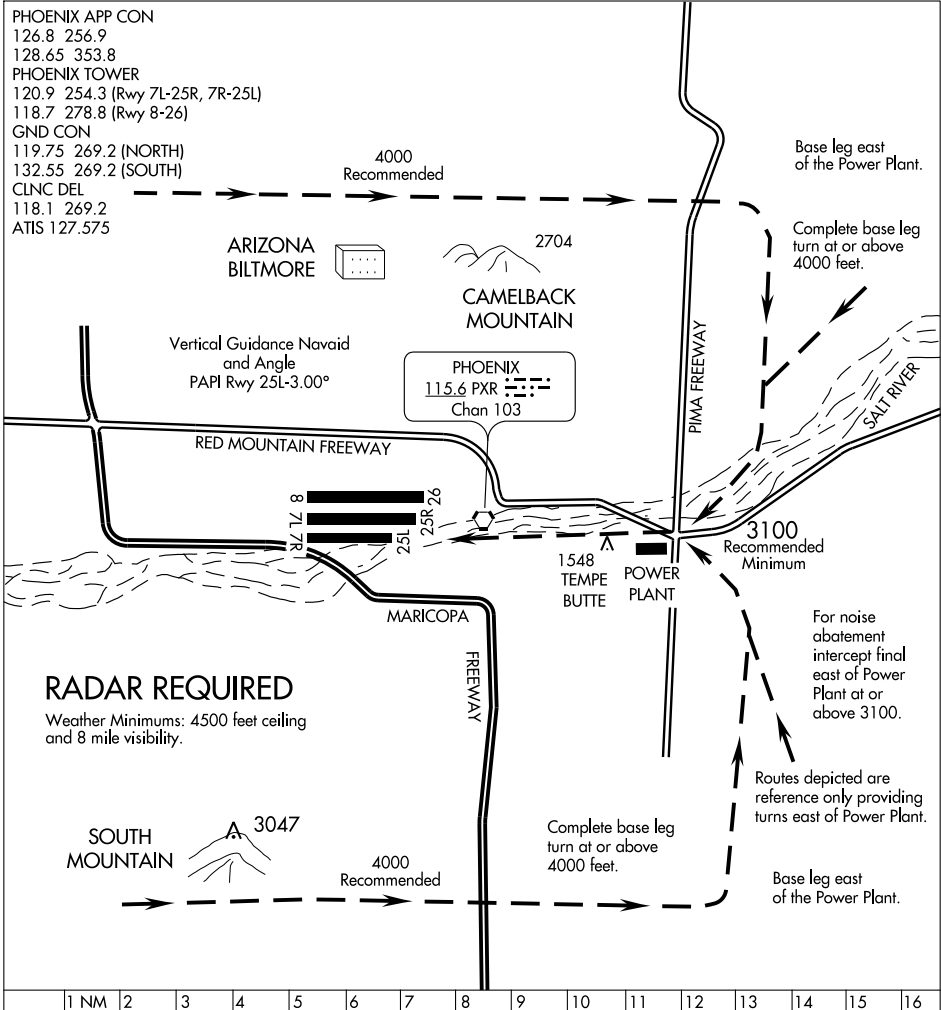
RATTLESNAKE TRANSITION (RIMMM1.RSK)

RIVER VISUAL RWY 25L

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA



RIVER VISUAL RWY 25L

When visual approaches to Runway 25L are in progress, clearances will be given utilizing in part the following phaseology:

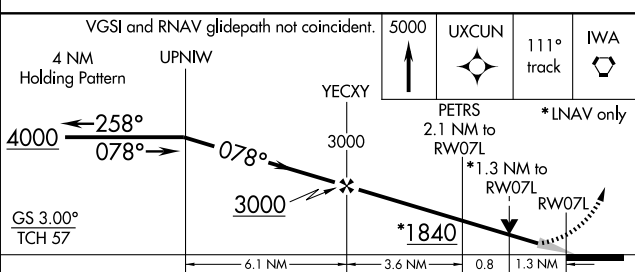
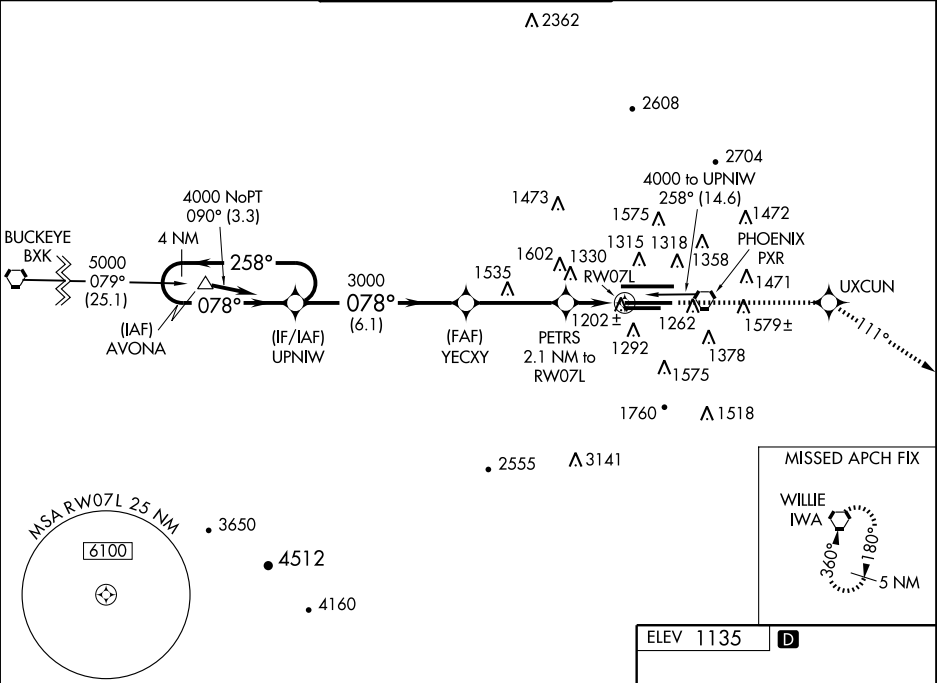
"(IDENT) CLEARED FOR A RIVER VISUAL RUNWAY 25L APPROACH"

WAAS CH 65811 W07A	APP CRS 078°	Rwy Idg 10300 TDZE 1116 Apt Elev 1135
--	------------------------	--

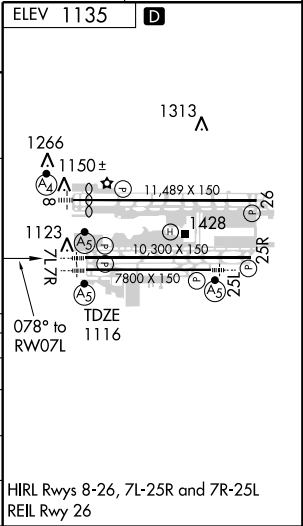
RNAV (GPS) Y RWY 7L
PHOENIX SKY HARBOR INTL (PHX)

▼ For inoperative MALS, increase LPV all Cats visibility to RVR 5000. ▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP- 0.3 NA.	MALS 	MISSED APPROACH: Climb to 5000 direct UXCUN and via 111° track to IWA VORTAC and hold.
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ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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CATEGORY	A	B	C	D
LPV DA	1389/24		273 (300-½)	
LNAV/VNAV DA	1519/50		403 (400-1)	
LNAV MDA	1580/24 464 (500-½)		1580/40 464 (500-¾)	1580/50 464 (500-1)
CIRCLING	1740-1 605 (700-1)		1740-1¾ 605 (700-1¾)	1920-2 ½ 785 (800-2½)



▼

For inoperative MALS, increase LNAV Cat A/B visibility to 1 mile.

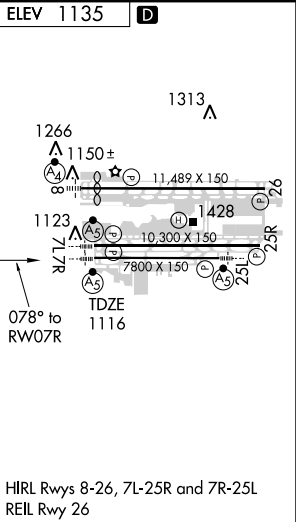
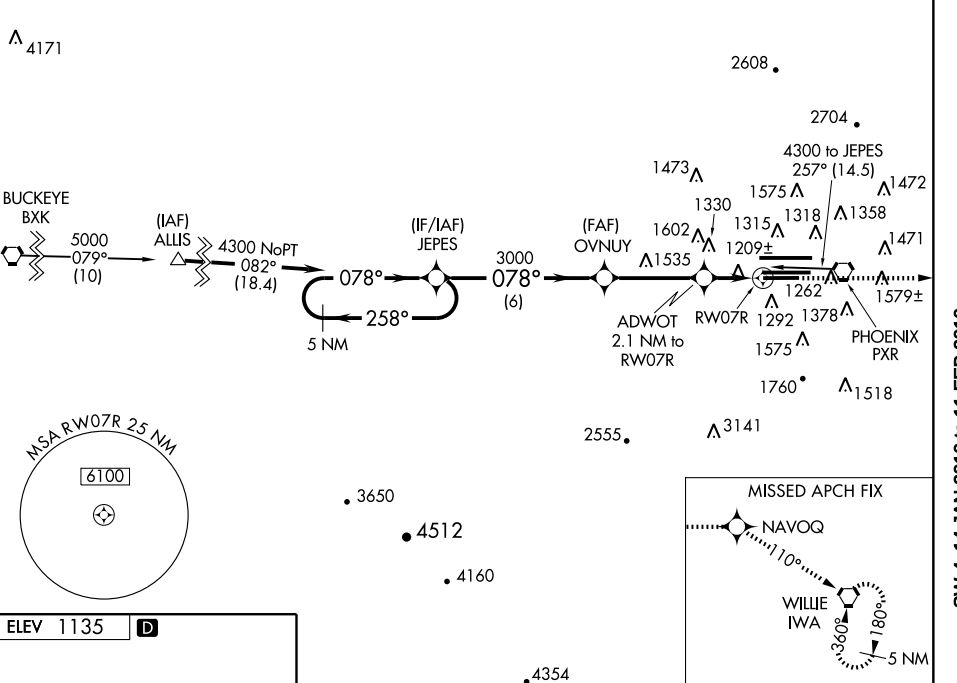
▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MALS

MISSED APPROACH: Climb to 5000 direct NAVOQ and via 110° track to IWA VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
JEPES				
OVNUY				
ADWOT 2.1 NM to RW07R				
RW07R				
*1.2 NM to RW07R				
*1840				
6 NM				
3.6 NM				
0.9				
1.2 NM				
CATEGORY	A	B	C	D
LPV DA	1390-3/4 274 (300-3/4)			
LNAV/VNAV DA	1520-1 404 (400-1)			
LNAV MDA	1580-3/4 464 (500-3/4)			1580-1 464 (500-1)
CIRCLING	1740-1 605 (700-1)		1740-13/4 605 (700-13/4)	1920-2 785 (800-2)

SW-4, 14 JAN 2010 to 11 FEB 2010

 Inoperative table does not apply. DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.	MALSF 	MISSED APPROACH: Climb to 5000 direct YOKXO and via 114° track to IWA VORTAC and hold.
---	--	---

[illegible]

078° to RW08

TDZE

1313

1266

1118

1150±

1123

1428

10,300 X 150

7800 X 150

25R

25L

25

26

HIRL Rwy 8-26, 7L-25R and 7R-25L

REIL Rwy 26

Figure 1 is a schematic diagram of the RNAV approach for runway 08 at YOKXO. The diagram shows a 5 NM Holding Pattern at 4100 feet, a 258° turn, a 078° turn, a 3000 feet altitude, a 6 NM distance, and a 5.7 NM distance. The RNAV approach is shown with a 114° track and a 5000 feet altitude. The RNAV approach is shown with a 114° track and a 5000 feet altitude. The RNAV approach is shown with a 114° track and a 5000 feet altitude.

WAAS CH 82211 W25B	APP CRS 258°	Rwy Idg 7800 TDZE 1126 Apt Elev 1135
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RNAV (GPS) Y RWY 25L

PHOENIX SKY HARBOR INTL (PHX)

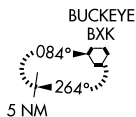
T For inoperative MALS/R, increase LPV all Cats visibility to 1 1/4 .
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
 DME/DME RNP-0.3 NA.



MISSED APPROACH: Climb to 5000 direct
OVNUY and via 261° track to BXK VORTAC
and hold.

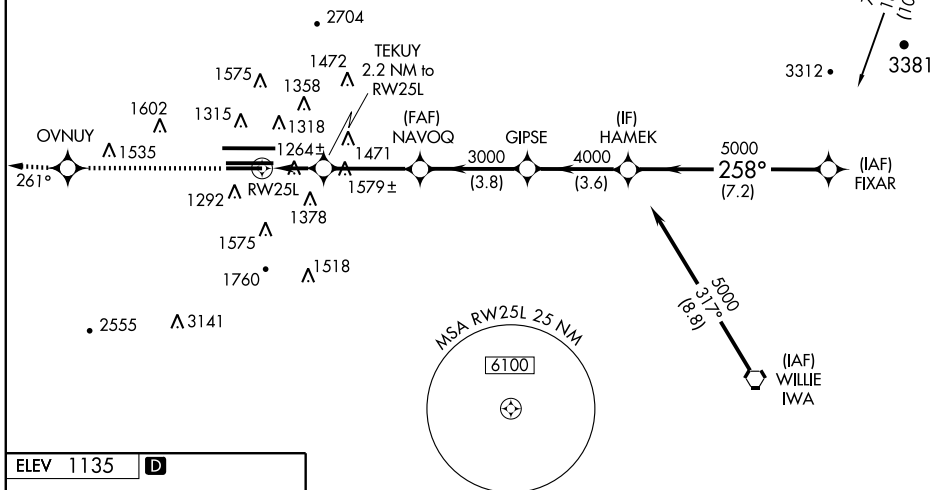
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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MISSED APCH FIX



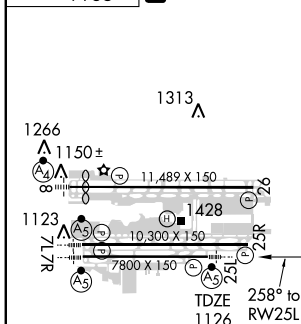
• 2608

Procedure NA for arrivals at ZERLO via
V190 northeast bound.



SW-4. 14 JAN 2010 to 11 FEB 2010

ELEV 1135



HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

WAAS CH 40022 W25A	APP CRS 258°	Rwy Idg 10300 TDZE 1134 Apt Elev 1135
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RNAV (GPS) Y RWY 25R
PHOENIX SKY HARBOR INTL (PHX)

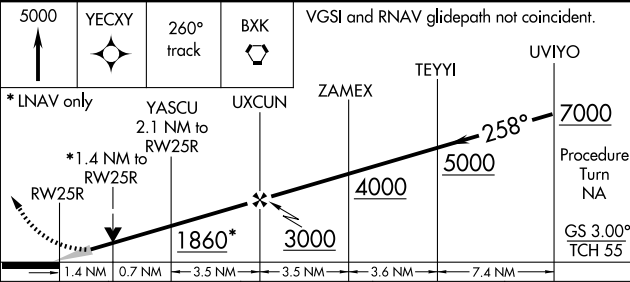
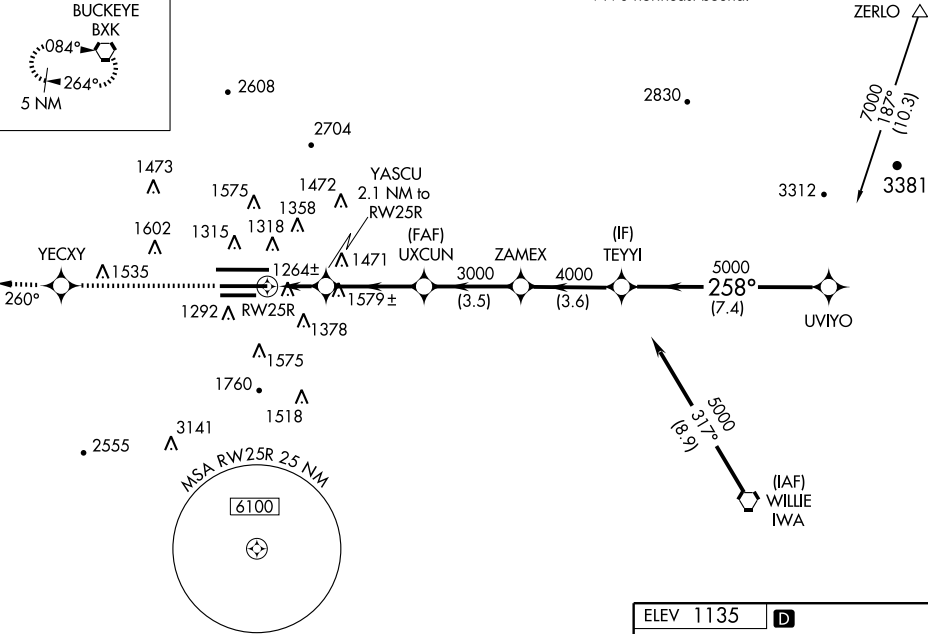
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
⚠ DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 5000 direct YECXY and via 260° track to BXK VORTAC and hold.

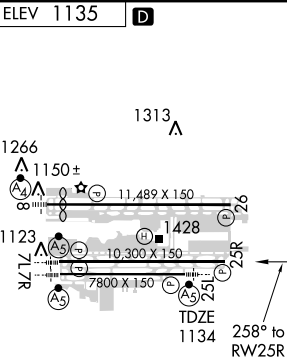
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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MISSED APCH FIX

Procedure NA for arrivals at ZERLO via V190 northeast bound.



CATEGORY	A	B	C	D
LPV DA	1439-1 305 (400-1)			
LNAV/VNAV DA	1580-1½ 446 (500-1½)			
LNAV MDA	1640-1 506 (600-1)	1640-1½ 506 (600-1½)		
CIRCLING	1740-1 605 (700-1)	1740-1¾ 605 (700-1¾)	1920-2½ 785 (800-2½)	



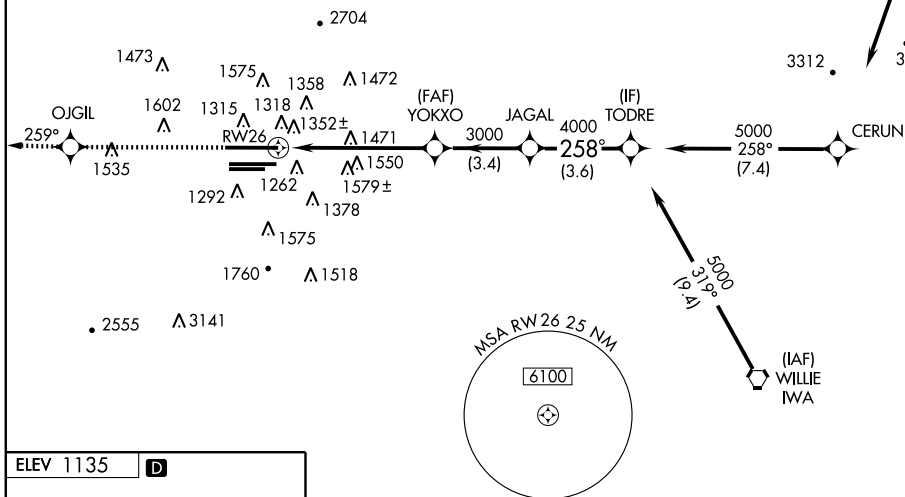
HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

PHOENIX SKY HARBOR INTL (PHX)

MISSED APPROACH: Climb to 5000 direct OJIL and via 259° track to BXK VORTAC and hold.

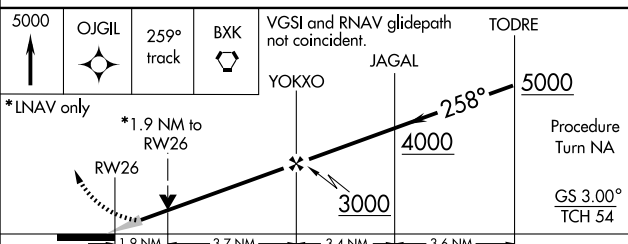
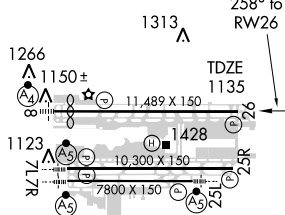
CLNC DEL
118.1 269.2

Procedure NA for arrivals at ZERLO
via V190 northeast bound.



SW-4. 14 JAN 2010 to 11 FEB 2010

D



CATEGORY		1.7 NM	3.7 NM	5.4 NM	8.6 NM	
		A	B	C	D	
LPV	DA	1436-1 301 (400-1)				
LNAV/ VNAV	DA	1659-1 $\frac{3}{4}$ 524 (600-1 $\frac{3}{4}$)				
LNAV	MDA	1800-1 665 (700-1)		1800-1 $\frac{3}{4}$ 665 (700-1 $\frac{3}{4}$)	1800-2 665 (700-2)	
CIRCLING		1800-1 665 (700-1)		1800-1 $\frac{3}{4}$ 665 (700-1 $\frac{3}{4}$)	1920-2 $\frac{1}{2}$ 785 (800-2 $\frac{1}{2}$)	

HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

APP CRS	Rwy Idg	10300
078°	TDZE	1116
	Apt Elev	1135

RNAV (RNP) Z Rwy 7L

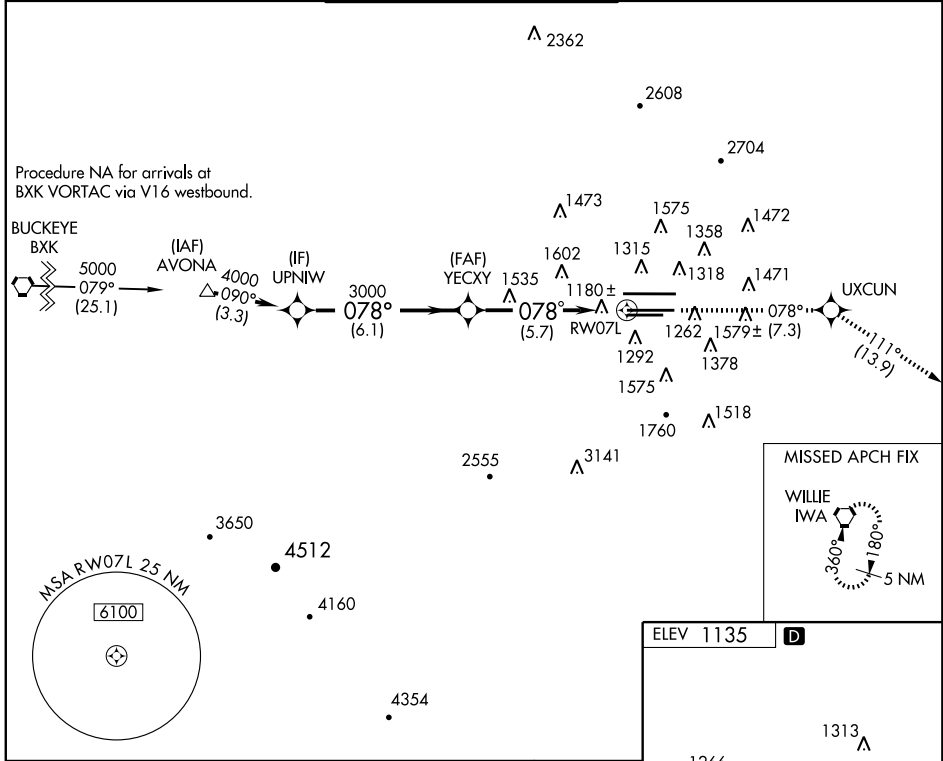
PHOENIX SKY HARBOR INTL (PHX)

GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1½ mile.

MALSR

MISSED APPROACH: Climb to 5000 via track 078° to UXCUN and via track 111° to IWA VORTAC and hold.

ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL
127.575	128.65 353.8	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2



Procedure Turn NA

UPNIW

4000

078°

3000

YECCY

3000

RW07L

GP 3.00° TCH 57

6.1 NM

5.7 NM

VGSI and RNAV glidepath not coincident.

5000

UXCUN

trk 078°

trk 111°

IWA

ELEV 1135

D

1266

1150±

11,489 X 150

1428

10,300 X 150

7800 X 150

1123

TDZE 1116

71R

078° to RW07L

26

25R

25L

A5

A5

A5

CATEGORY	A	B	C	D
RNP 0.30 DA	1523/50 407 (400-1)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

APP CRS	Rwy Idg	7800
078°	TDZE	1116
	Apt Elev	1135

RNAV (RNP) Z RWY 7R

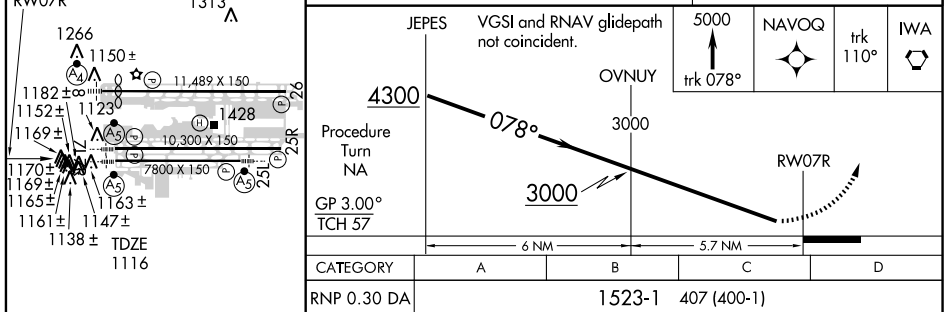
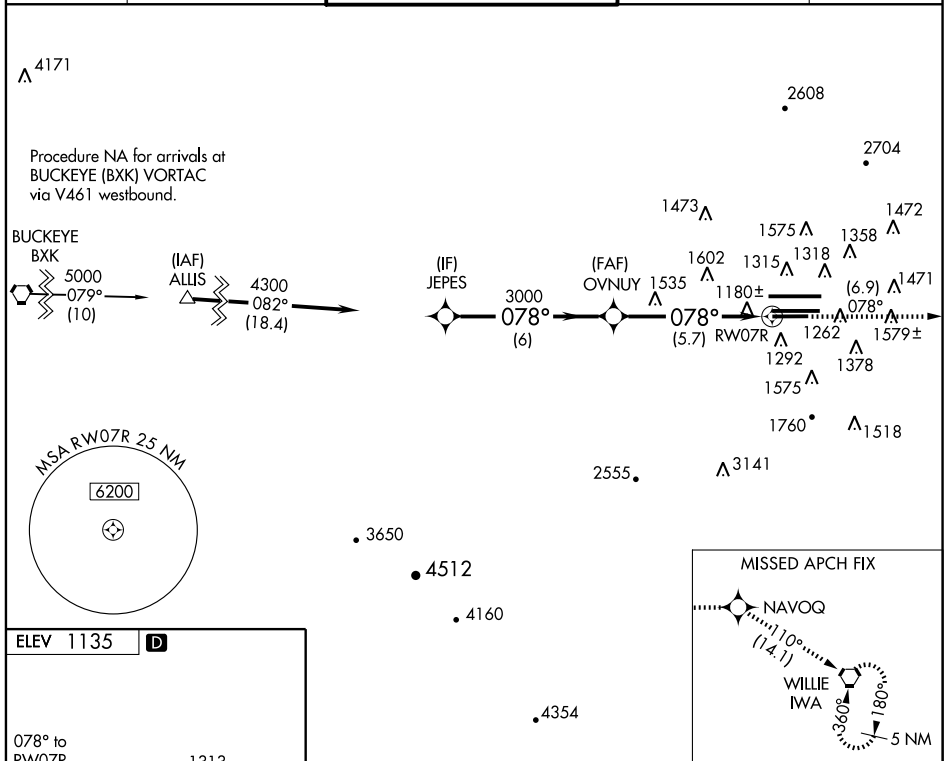
PHOENIX SKY HARBOR INTL (PHX)

GPS required.
For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F).
For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1½.

MALSR

MISSED APPROACH: Climb to 5000 via track 078° to NAVOQ and via track 110° to IWA VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

APP CRS	Rwy Idg	10591
078°	TDZE	1118
	Apt Elev	1135

RNAV (RNP) Z RWY 8

PHOENIX SKY HARBOR INTL (PHX)

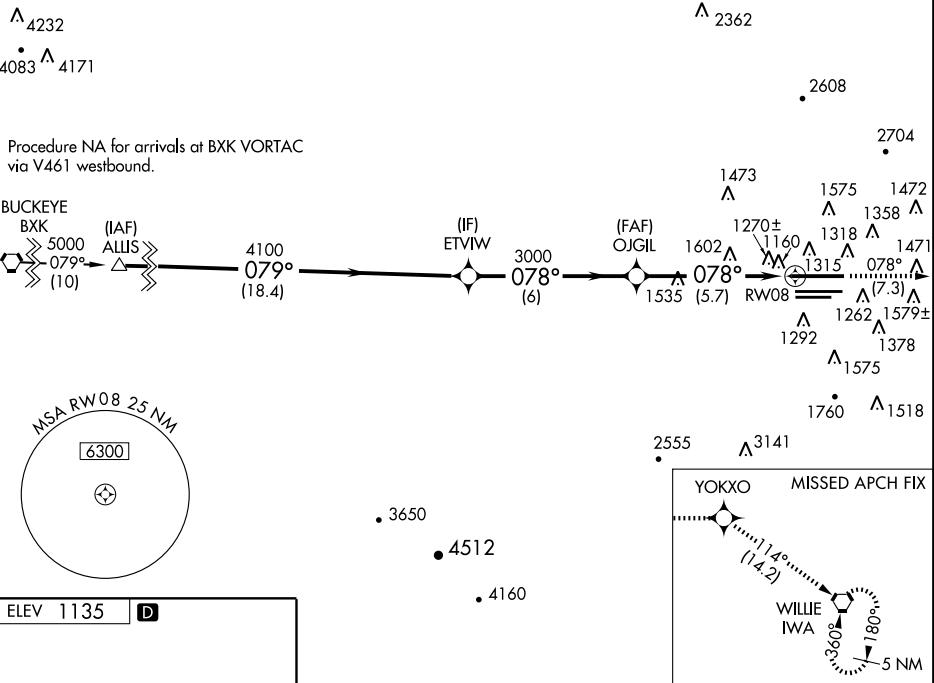
GPS required. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F).
For inoperative MALSF, increase RNP 0.13 all Cats visibility to 1¼, and RNP 0.30 all Cats visibility to 1¾.

MALSF

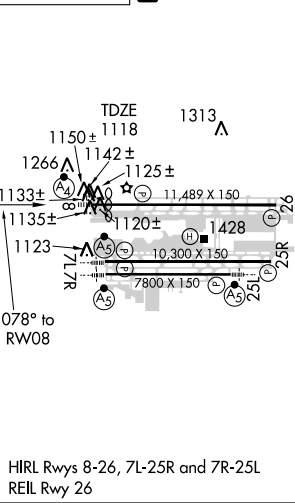


MISSED APPROACH: Climb to 5000 via track 078° to YOKXO and via track 114° to IWA VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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ELEV 1135



VGSI and RNAV glidepath not coincident.				
ALLIS	ETVIW	OJGIL	RW08	
5000	4100	3000		
GP 3.00°				
TCH 54				
18.4 NM	6 NM	5.7 NM		
CATEGORY	A	B	C	D
RNP 0.13 DA	1478-1	360 (400-1)		
RNP 0.30 DA	1603-1½	485 (500-1½)		

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

APP CRS
258°

Rwy Idg
TDZE
1126

Apt Elev
1135

RNAV (RNP) Z RWY 25L

PHOENIX SKY HARBOR INTL (PHX)

▼

For inoperative MALSR, increase RNP 0.11 all Cats visibility to 1¾, RNP 0.30 all Cats visibility to 2.
Visibility reduction by helicopters NA. GPS required.
For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F).

MALSR

MISSED APPROACH: Climb to 5000 via track 258° to OVNUY and via track 261° to BKK VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2
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MISSED APCH FIX

BUCKEYE BKK

084°

264°

5 NM

2608

2704

2830

3312

3381

(IAF) ZERLO

7000

188°

(10.5)

OVNUY

261°

(34.4)

258°

(7)

1292

1241±

1579±

(5.6)

258°

3000

(3.8)

GIPSE

4000

(3.6)

HAMEK

5000

(7.2)

FIXAR

1473

1575

1358

1472

1602

1315

1318

1471

(FAF) NAVOQ

1262

1378

1575

1760

1518

2555

3141

MSA RW25L 25 NM

6300

ELEV 1135

1266

1150±

1123

1428

11,489 X 150

10,300 X 150

7800 X 150

258° to RW25L

TDZE 1126

1313

1266

1150±

1123

1428

11,489 X 150

10,300 X 150

7800 X 150

258° to RW25L

TDZE 1126

1313

5000

OVNUY

trk 258°

BKK

VGSI and RNAV glidepath not coincident.

FIXAR

7000

Procedure Turn NA

GP 3.00° TCH 49'

NAVQ

GIPSE

HAMEK

3000

4000

5000

258°

RW25L

3000

5.6 NM

3.8 NM

3.6 NM

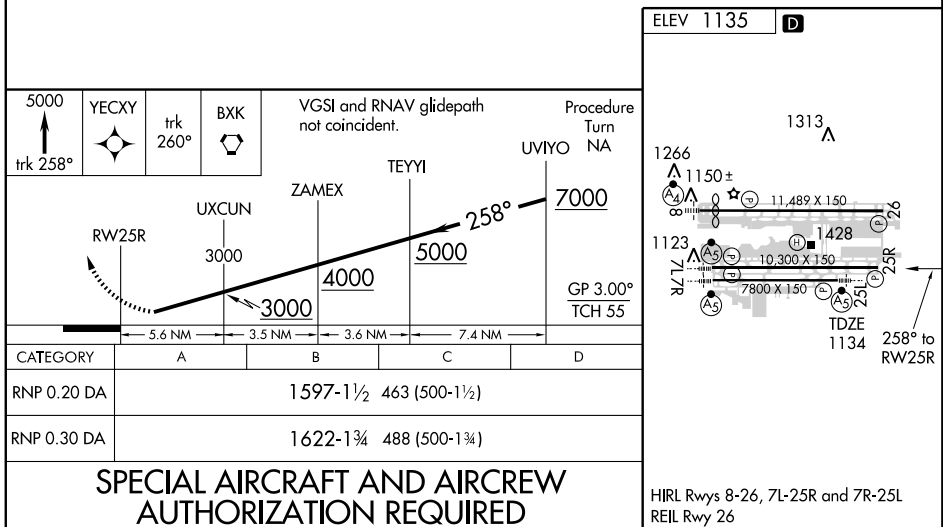
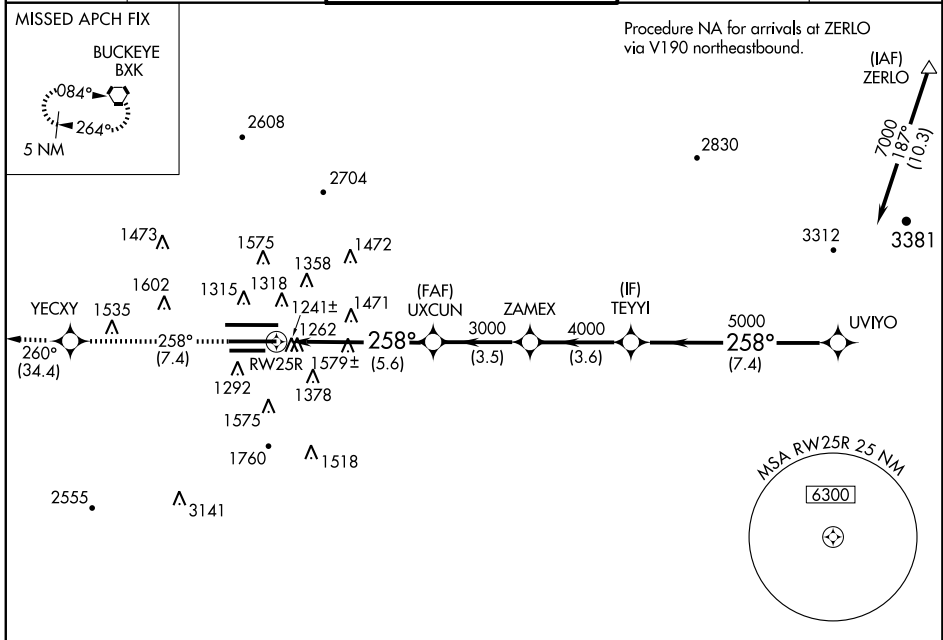
7.2 NM

CATEGORY	A	B	C	D
RNP 0.11 DA	1617-1¼ 491 (500-1¼)			
RNP 0.30 DA	1664-1½ 538 (600-1½)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

SW-4, 14 JAN 2010 to 11 FEB 2010

▼ Visibility reduction by helicopters NA. GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F).		MISSED APPROACH: Climb to 5000 via track 258° to YECXY and via track 260° to BXX VORTAC and hold.	
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S) CLNC DEL 118.1 269.2



SW-4, 14 JAN 2010 to 11 FEB 2010

RNAV (RNP) Z RWY 26
PHOENIX SKY HARBOR INTL (PHX)

MISSED APPROACH: Climb to 5000 via track 258° to OJGIL and via track 259° to B XK VORTAC and hold.

5000 ↑ trk 258°	OJGIL ✦	trk 259°	BXK ⬡	VGSI and RNAV glidepath not coincident.	Procedure Turn NA
CATEGORY	A	B	C	D	
RNP 0.11 DA	1490-1¼ 355 (400-1¼)				
RNP 0.20 DA	1590-1½ 455 (500-1½)				
RNP 0.30 DA	1654-1¾ 519 (600-1¾)				
SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED					

SILOW ONE DEPARTURE

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA

ATIS 127.575

CLNC DEL

118.1 269.2

GND CON

119.75 269.2 (NORTH)

132.55 269.2 (SOUTH)

PHOENIX TOWER

118.7 278.8 (Rwys 7L-25R, 7R-25L)

120.9 254.3 (Rwys 7L-25R, 7R-25L)

PHOENIX DEP CON

119.2 281.45

BRYCE CANYON
112.8 BCE
Chan 75
N37°41.35'
W112°18.23'
L-9, H-3

DOVE CREEK
114.6 DVC
Chan 93
N37°48.53'
W108°55.88'
L-9, H-3

RATTLESNAKE
115.3 RSK
Chan 100
N36°44.90'
W108°05.93'
L-8, H-4

GRAND CANYON
113.1 GCN
Chan 78
N35°57.62'
W112°08.76'

FLAGSTAFF
113.85 FLG
Chan 85 (Y)
N35°08.83'
W111°40.45'

WINSLOW
112.6 INW
Chan 73
N35°03.70'
W110°47.70'

TAKE-OFF MINIMUMS

Rwy 25L/25R/26: Standard with minimum climb of 350' per NM to 7000.

Rwy 7L/7R/8: Standard with minimum climb of 300' per NM to 7000.

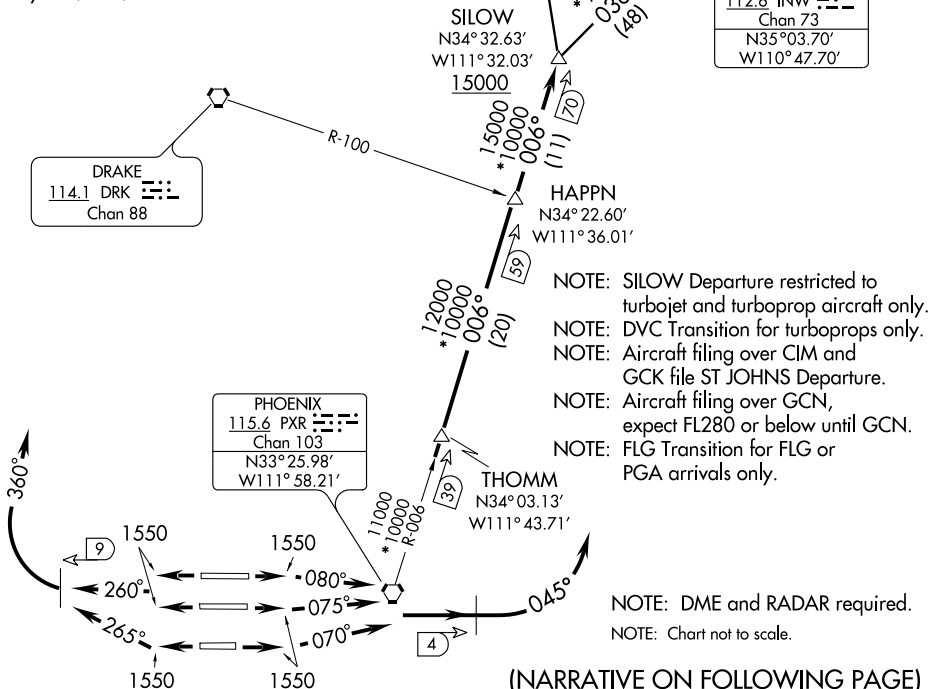
TAKE-OFF OBSTACLES

Rwy 25L/25R/26: 1750 building

DEPARTURE OBSTACLES

Rwy 7L/7R/8: 1475 Mountain peak

Rwy 25L/25R/26: 3047 tower



(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7L: Climb runway heading to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°, maintain 7000. Thence....

TAKE-OFF RUNWAY 7R: Climb runway heading to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°, maintain 7000. Thence....

TAKE-OFF RUNWAY 8: Climb runway heading to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°, maintain 7000. Thence....

TAKE-OFF RUNWAY 25L: Climb runway heading to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 7000. Thence....

TAKE-OFF RUNWAY 25R: Climb runway heading to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 7000. Thence....

TAKE-OFF RUNWAY 26: Climb runway heading to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 7000. Thence....

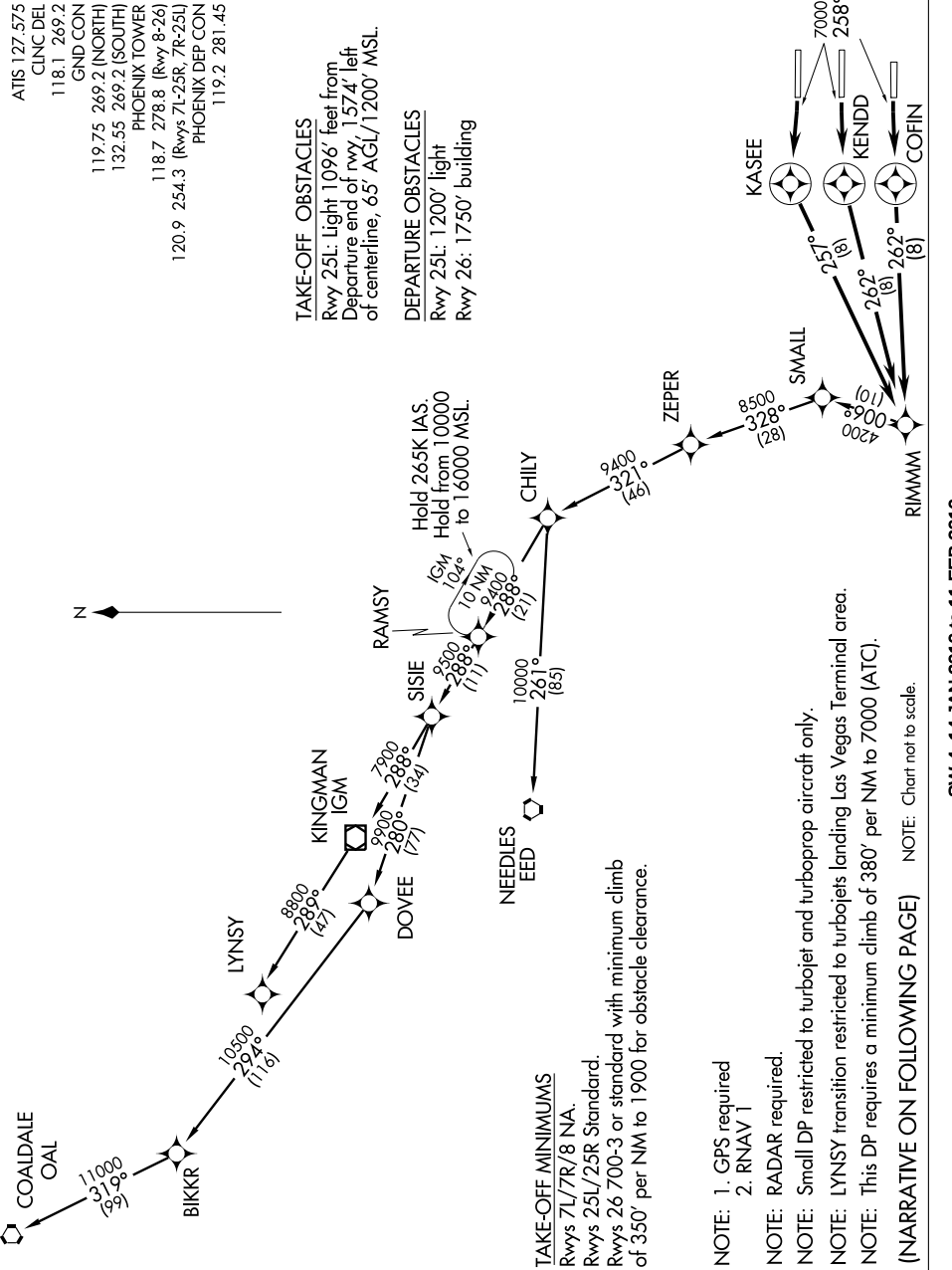
....Expect radar vectors to PXR R-006 to SILOW INT. Then via (transition). Expect filed altitude 3 minutes after departure.

BRYCE CANYON TRANSITION (SILOW1.BCE): From over SILOW INT via FLG R-155 to FLG VOR/DME, then via FLG R-321 and GCN R-139 to GCN VOR/DME, then via GCN R-341 and BCE R-161 (V257) to BCE VORTAC.

DOVE CREEK TRANSITION (SILOW1.DVC): From over SILOW INT via INW R-216 to INW VORTAC, then via INW R-014 and DVC R-195 to DVC VORTAC.

FLAGSTAFF TRANSITION (SILOW1.FLG): From over SILOW INT via FLG R-155 to FLG VOR/DME.

RATTLESNAKE TRANSITION (SILOW1.RSK): From over SILOW INT via INW R-216 to INW VORTAC, then via INW R-038 and RSK R-219 (V95/J44) to RSK VORTAC.



SMALL ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25L: Climb via 258° course to COFIN WP, then via 262° track to RIMMM, Thence....

TAKE-OFF RUNWAY 25R: Climb via 258° course to KENDD WP, then VIA 262° track to RIMMM, Thence....

TAKE-OFF RUNWAY 26: Climb via 258° course to KASEE WP, then via 257° track to RIMMM, Thence....

....via (transition). Maintain 7000, expect filed altitude within 10 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

COALDALE TRANSITION (SMALL1.OAL)

LYNSY TRANSITION (SMALL1.LYNSY)

NEEDLES TRANSITION (SMALL1.EED)

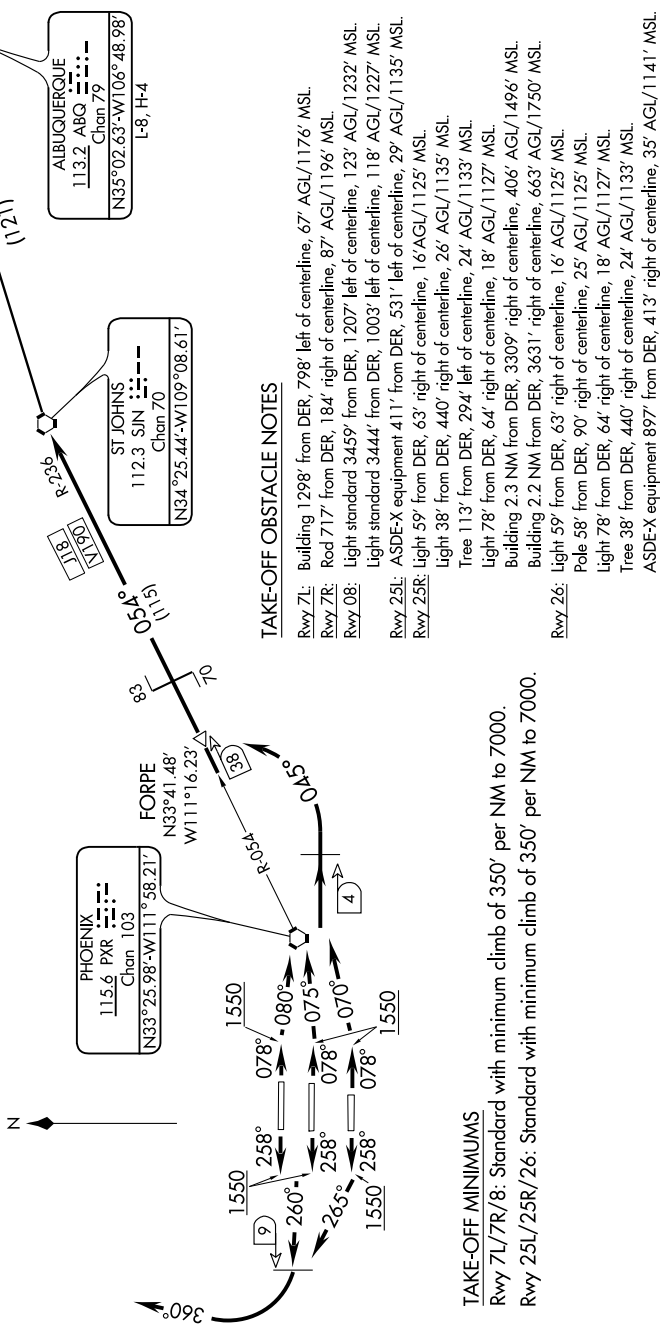
ST. JOHNS FIVE DEPARTURE

SL-322 (FAA)

PHOENIX SKY HARBOR (PHX)
PHOENIX, ARIZONA

NOTE: ST JOHNS DEPARTURE restricted to turbojet and turboprop aircraft only.
NOTE: Aircraft filing over ALS, RSK and points north of ALS file SILOW DEPARTURE.
NOTE: Aircraft filing over CIM, LVS and GCK file ST JOHNS DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONW, CNX, PNH, GAG, TCC, IRW, and TXO file MAXXO DEPARTURE.
NOTE: DME and RADAR required.

ATIS 127.575
CLNC DEL
118.1 269.2
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45



TAKE-OFF OBSTACLE NOTES

Rwy 7L: Building 1298' from DER, 798' left of centerline, 67' AGL/1176' MSL.
Rwy 7R: Rod 717' from DER, 184' right of centerline, 87' AGL/1196' MSL.
Rwy 08: Light standard 3459' from DER, 1207' left of centerline, 123' AGL/1232' MSL.
Light standard 3444' from DER, 1003' left of centerline, 118' AGL/1227' MSL.
Rwy 25L: ASDE-X equipment 411' from DER, 531' left of centerline, 29' AGL/1135' MSL.
Rwy 25R: Light 59' from DER, 63' right of centerline, 16' AGL/1125' MSL.
Light 38' from DER, 440' right of centerline, 26' AGL/1135' MSL.
Tree 113' from DER, 294' left of centerline, 24' AGL/1133' MSL.
Light 78' from DER, 64' right of centerline, 18' AGL/1127' MSL.
Building 2.3 NM from DER, 3309' right of centerline, 406' AGL/1496' MSL.
Building 2.2 NM from DER, 3631' right of centerline, 663' AGL/1750' MSL.
Rwy 26: Light 59' from DER, 63' right of centerline, 16' AGL/1125' MSL.
Pole 58' from DER, 90' right of centerline, 25' AGL/1125' MSL.
Light 78' from DER, 64' right of centerline, 18' AGL/1127' MSL.
Tree 38' from DER, 440' right of centerline, 24' AGL/1133' MSL.
ASDE-X equipment 897' from DER, 413' right of centerline, 35' AGL/1141' MSL.

TAKE-OFF MINIMUMS

Rwy 7L/7R/8: Standard with minimum climb of 350' per NM to 7000.
Rwy 25L/25R/26: Standard with minimum climb of 350' per NM to 7000.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ST. JOHNS FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 7000. Thence. . . .

TAKE-OFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 7000. Thence. . . .

TAKE-OFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 7000. Thence. . . .

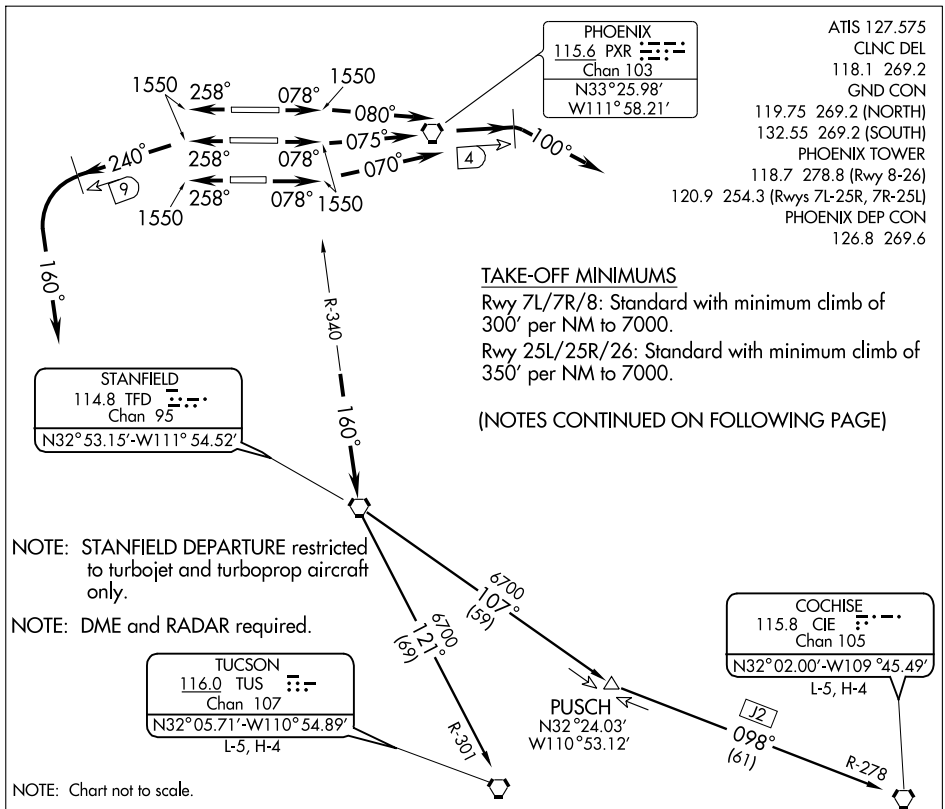
TAKE-OFF RUNWAY 25R/26: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 7000. Expect radar vectors to PXR R-054 to SJN VORTAC. Thence. . . .

TAKE-OFF RUNWAY 25L: Climb via 258° heading to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 7000. Expect radar vectors to PXR R-054 to SJN VORTAC. Thence. . . .

. . . .via assigned transition. Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (SJN5.ABQ): From over SJN VORTAC via SJN R-059 and ABQ R-240 to ABQ VORTAC.

STANFIELD TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb via 078° heading to 1550 then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 7L: Climb via 078° heading to 1550 then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 7R: Climb via 078° heading to 1550 then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . .

TAKE-OFF RUNWAY 25L/25R/26: Climb via 258° heading to 1550 then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . .

.... maintain 7000, expect radar vectors to TFD R-340 to TFD VORTAC. Thence via (Transition). Expect further clearance to filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

COCHISE TRANSITION (TFD2.CIE): From over TFD VORTAC via TFD R-107 to PUSCH INT, then via CIE R-278 to CIE VORTAC.

TUCSON TRANSITION (TFD2.TUS): From over TFD VORTAC via TFD R-121 and TUS R-301 to TUS VORTAC.

STANFIELD TWO DEPARTURE

TAKEOFF NOTES CONT.

TAKE-OFF OBSTACLES

NOTE: Rwy 7L, building 1332' from departure end of runway, 798' left of centerline, 67' AGL/1176' MSL.

NOTE: Rwy 7R, rod 716' from departure end of runway, 184' right of centerline, 87' AGL/1196' MSL.

NOTE: Rwy 8, light standard 3530' from departure end of runway, 1207' left of centerline, 123' AGL/1232' MSL.

Rwy 8, light standard 3479' from departure end of runway, 1003' left of centerline, 118' AGL/1227' MSL.

NOTE: Rwy 25L, light standard 1129' from departure end of runway, 774' left of centerline, 120' AGL/1200' MSL.

NOTE: Rwy 26, light 59' from departure end of runway, 63' right of centerline, 16' AGL/1125' MSL.

Rwy 26, pole 58' from departure end of runway, 90' right of centerline, 25' AGL/1125' MSL.

Rwy 26, light 78' from departure end of runway, 64' right of centerline, 18' AGL/1127' MSL.

Rwy 26, light 38' from departure end of runway, 440' right of centerline, 24' AGL/1133' MSL.

Rwy 26, light standard 77' from departure end of runway, 453' left of centerline, 27' AGL/1136' MSL.

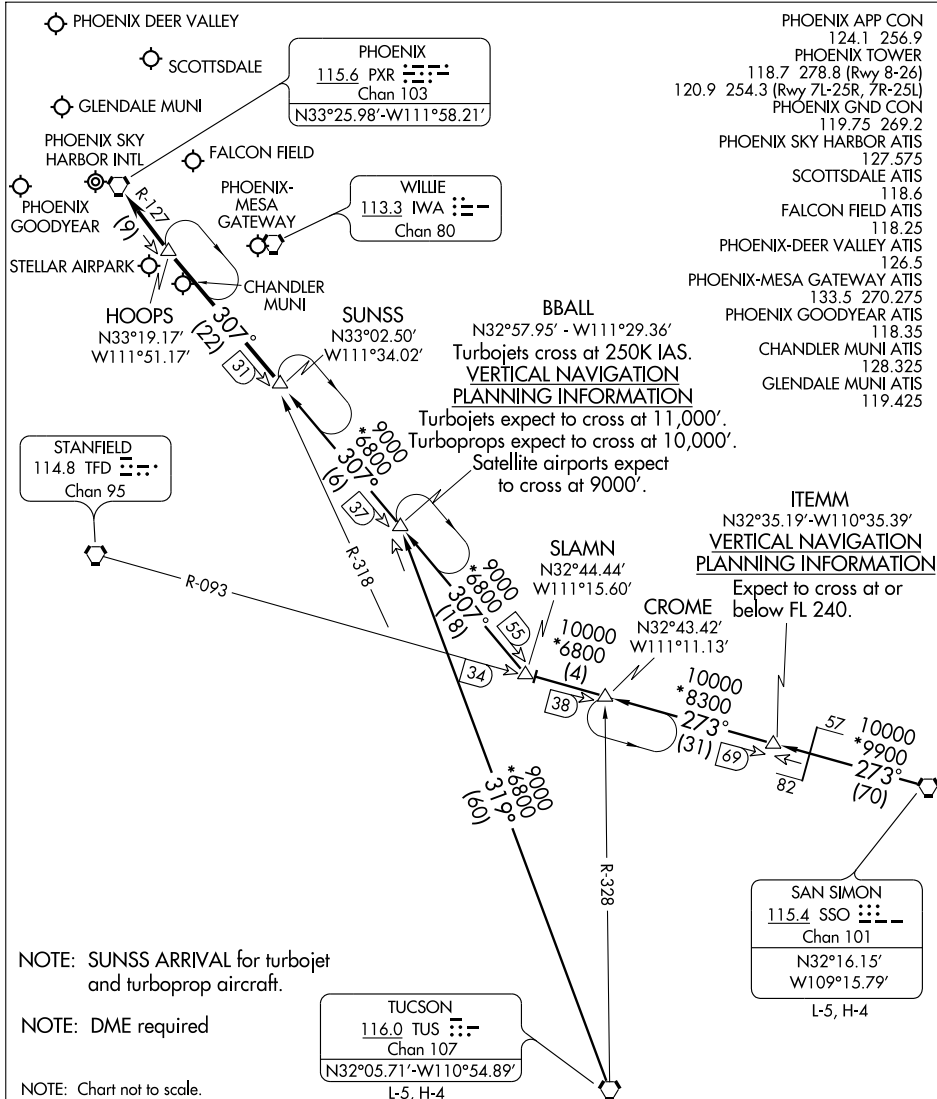
Rwy 26, light standard 74' from departure end of runway, 453' right of centerline, 33' AGL/1142' MSL.

Rwy 26, light standard 77' from departure end of runway, 434' right of centerline, 31' AGL/1140' MSL.

Rwy 26, light standard 64' from departure end of runway, 68' left of centerline, 1125' MSL.

Rwy 26, light 38' from departure end of runway, 440' right of centerline, 26' AGL/1135' MSL.

Rwy 26, tree 113' from departure end of runway, 294' left of centerline, 24' AGL/1133' MSL.



SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

(VANZZ1.VANZZ) 09127

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA

VANZZ ONE DEPARTURE (RNAV)

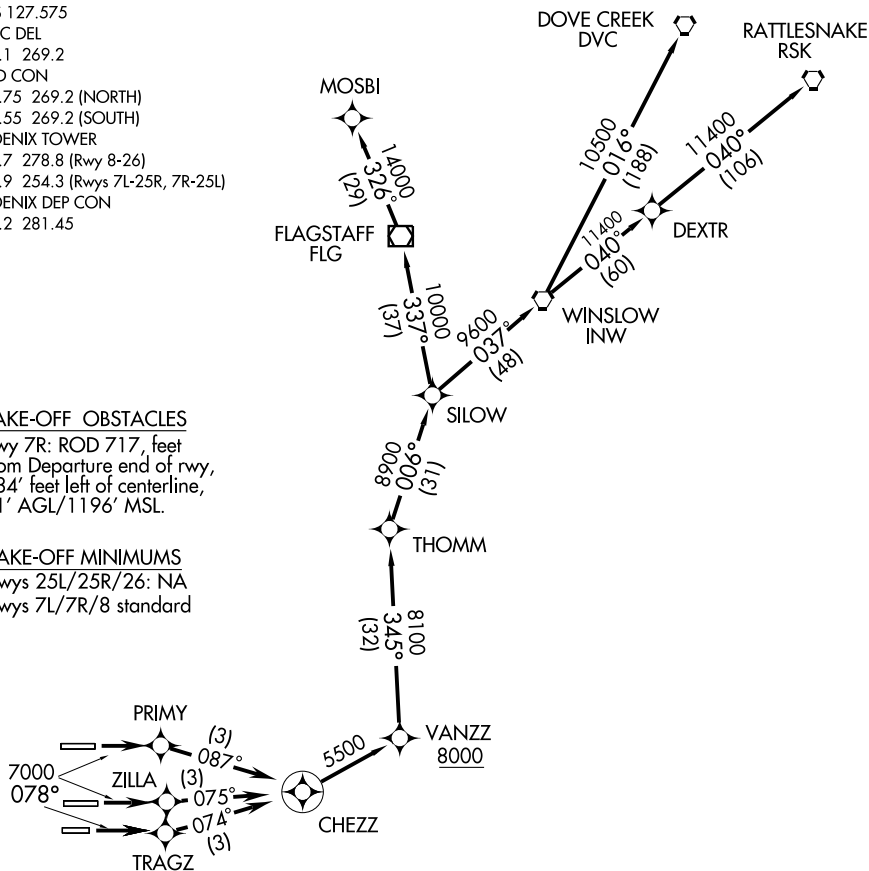
ATIS 127.575
CLNC DEL
118.1 269.2
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

TAKE-OFF OBSTACLES

Rwy 7R: ROD 717, feet
from Departure end of rwy,
184' feet left of centerline,
61' AGL/1196' MSL.

TAKE-OFF MINIMUMS

Rwys 25L/25R/26: NA
Rwys 7L/7R/8 standard



NOTE: 1. GPS required
2. RNAV 1

NOTE: RADAR required.

NOTE: This DP requires a minimum climb of 380' per NM to 7000 (ATC).

NOTE: VANZZ DP restricted to turbojet and turboprop aircraft only.

NOTE: FLG transition for FLG and PGA arrivals only.

NOTE: Aircraft filing over CIM, FTI, or GCK file CHEZZ or RIMM DP, ABQ Transition.

NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, GAG, TCC,
BGD, IRW and TXO file CHEZZ or DSERT DP, DRYHT TRANSITION.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

VANZZ ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7L: Climb via 078° course to ZILLA WP, then via 075° track to CHEZZ WP, Thence....

TAKE-OFF RUNWAY 7R: Climb via 078° course to TRAGZ WP, then VIA 074° track to CHEZZ WP, Thence....

TAKE-OFF RUNWAY 8: Climb via 078° course to PRIMY WP, then via 087° track to CHEZZ WP, Thence....

....via (transition). Maintain 7000, expect filed altitude within 10 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

DOVE CREEK TRANSITION (VANZZ1.DVC)

FLAGSTAFF TRANSITION (VANZZ1.FLG)

MOSBI TRANSITION (VANZZ1.MOSBI)

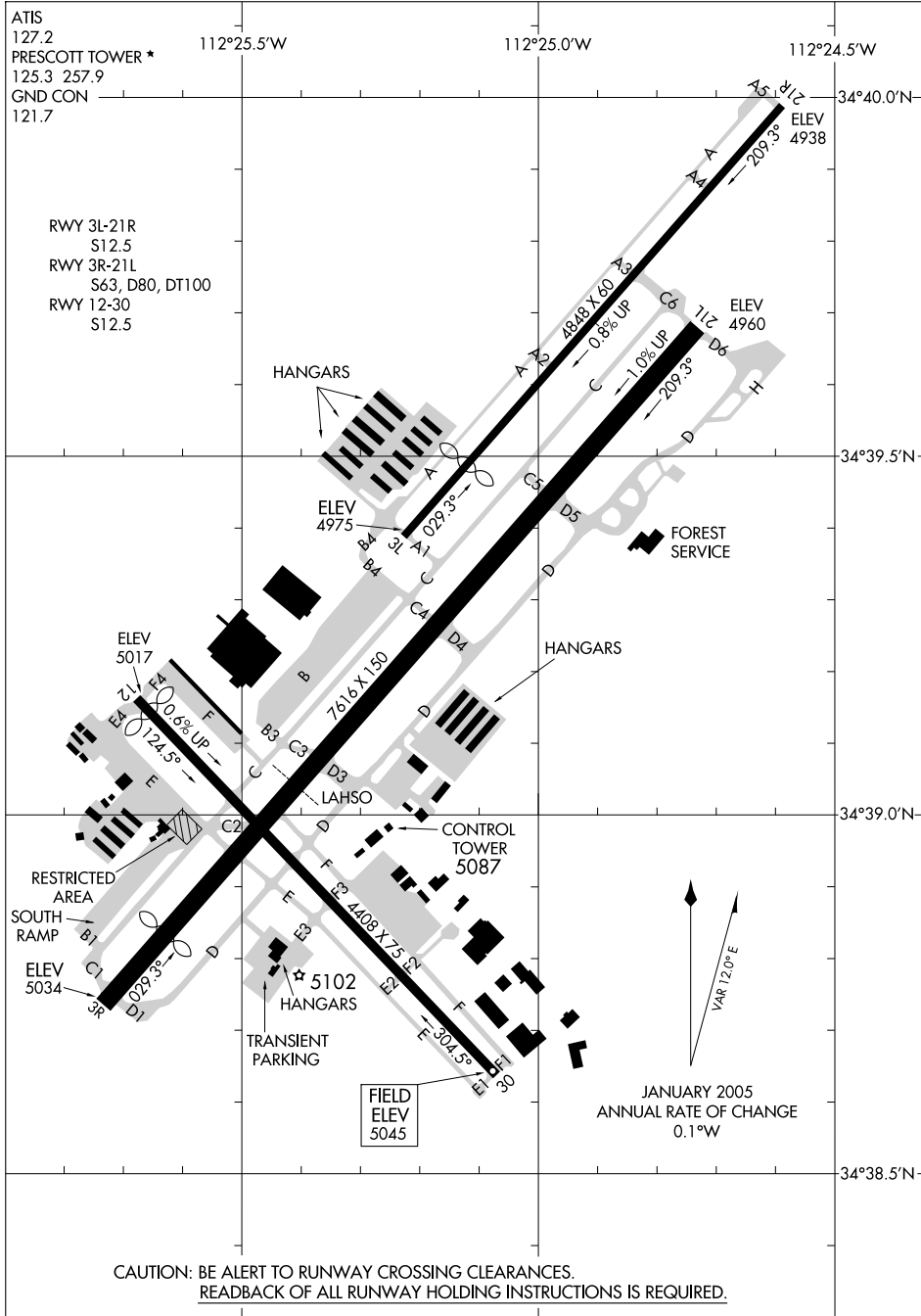
RATTLESNAKE TRANSITION (VANZZ1.RSK)

AIRPORT DIAGRAM

AL-546 (FAA)

PRESCOTT/ERNEST A. LOVE FIELD (PRC)

PRESCOTT, ARIZONA



SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	4258
124°	TDZE	5024
	Apt Elev	5045

GPS RWY 12

PRESCOTT / ERNEST A. LOVE FIELD (PRC)



ANA

MISSED APPROACH: Climbing left turn to 9000 direct IRODY WP and hold.

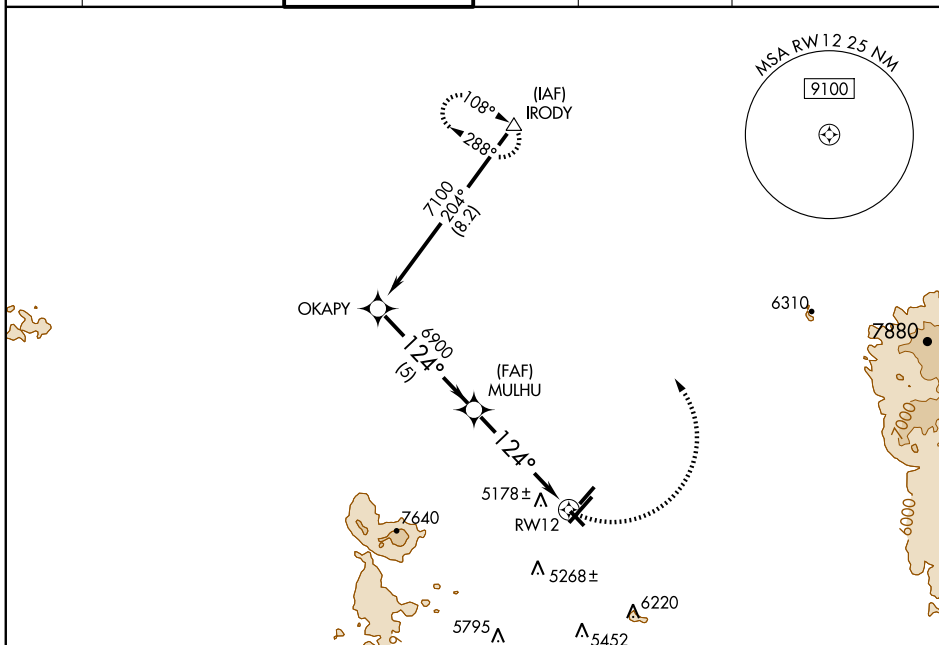
ATIS	ALBUQUERQUE CENTER	
127.2	128.45	298.9

PRESCOTT TOWER ★
125.3 (CTAF) **257.9**

GND CON
121.7

PRESCOTT RADIO
122.4 255.4

128.75 L (12-30)
125.3 (CTAF) L (3R-21L)



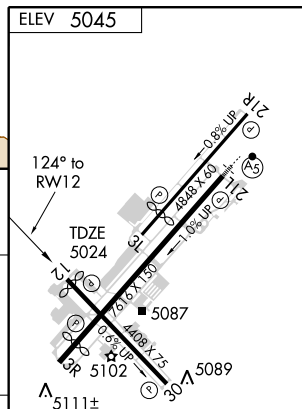
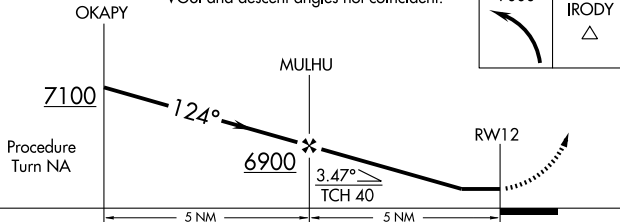
SW-4. 14 JAN 2010 to 11 FEB 2010

ELEV 5045

VGSI and descent angles not coincident.

9000

150



CATEGORY	A	B	C	D
S-12	5440-1 416 (400-1)		5440-1¼ 416 (400-1¼)	
CIRCLING	5540-1 495 (500-1)	5580-1 535 (600-1)	5720-2 675 (700-2)	5940-3 895 (900-3)

MIRL Rwy 3L-21R

MIRL Rwyys 3R-21L and 12-30 **L**

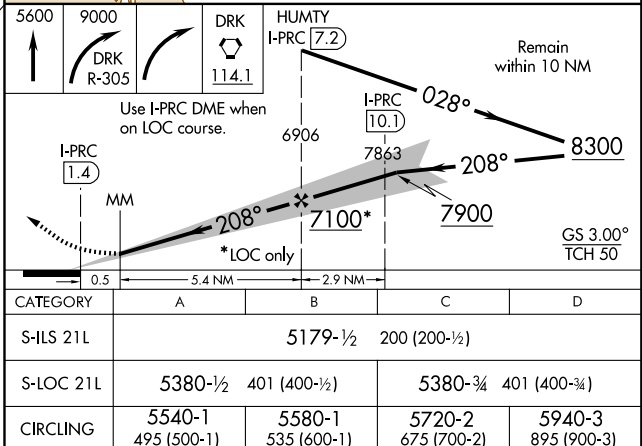
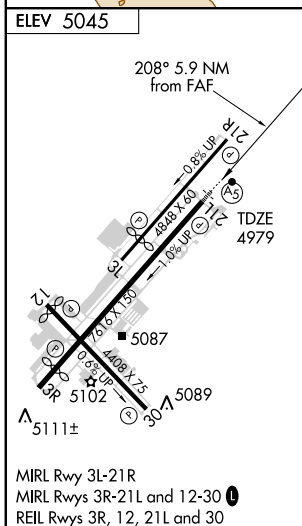
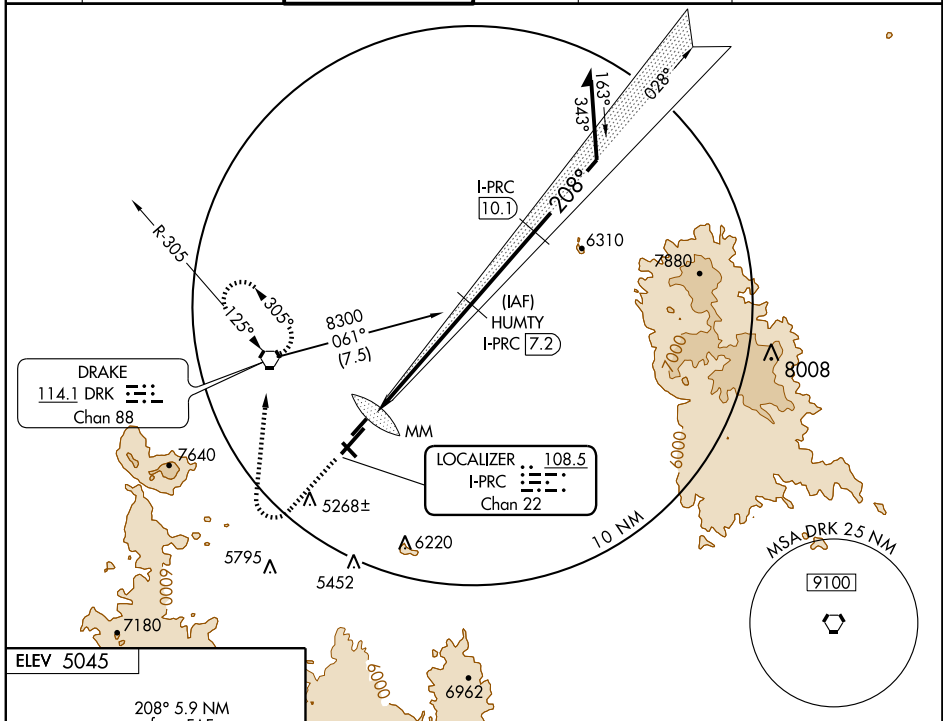
REIL Rwys 3R, 12, 21L and 30

LOC/DME I-PRC 108.5 Chan 22	APP CRS 208°	Rwy Idg 7616 TDZE 4979 Apt Elev 5045
---	------------------------	---

ILS/DME RWY 21L

PRESCOTT / ERNEST A. LOVE FIELD (PRC)

					MISSED APPROACH: Climb to 5600, then climbing right turn to 9000 via DRK VORTAC and DRK R-305, then turn right direct DRK VORTAC and hold.	
ATIS 127.2	ALBUQUERQUE CENTER 128.45 298.9	PRESCOTT TOWER ★ 125.3 (CTAF) 257.9	GND CON 121.7	PRESCOTT RADIO 122.4 255.4	128.75 0 (12-30) 125.3 (CTAF) 0 (3R-21L)	



▼

▲

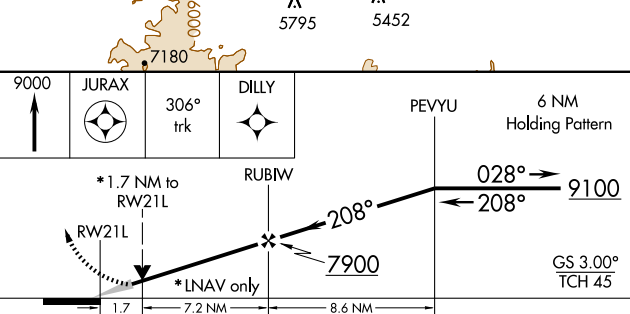
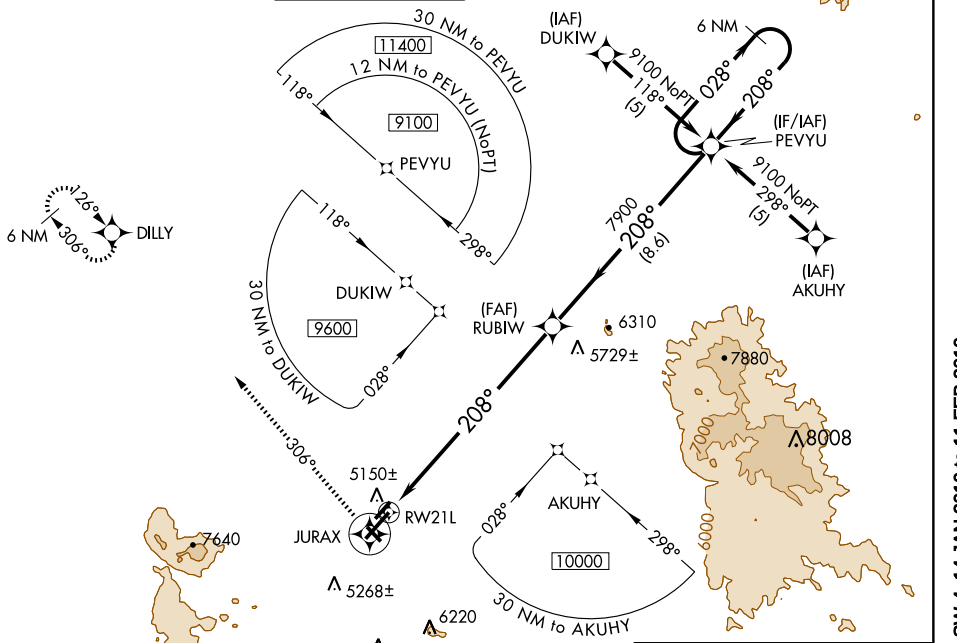
DME/DME RNP-0.3 NA.
Baro-VNAV NA below -25°C (-13°F).

MALSR

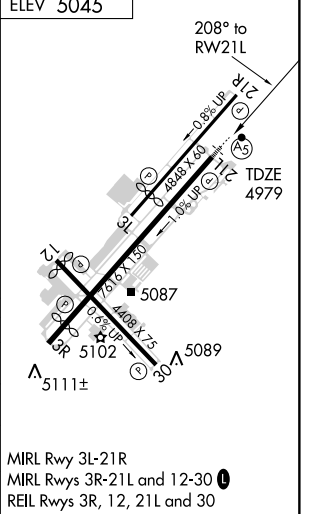
A5

MISSED APPROACH: Climb to 9000 direct JURAX
and via 306° track to DILLY and hold.

ATIS 127.2	ALBUQUERQUE CENTER 128.45 298.9	PRESCOTT TOWER ★ 125.3 (CTAF) 257.9	GND CON 121.7	PRESCOTT RADIO 122.4 255.4	128.75 (12-30) 125.3 (CTAF) (3R-21L)
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CATEGORY	A	B	C	D
LPV DA	5230-½ 251 (200-½)			
LNAV/VNAV DA	5380-1 401 (400-1)			
LNAV MDA	5560-½ 581 (600-½)	5560-1 581 (600-1)	5560-1 581 (600-1¼)	5560-1 581 (600-1¼)
CIRCLING	5560-1½ 515 (600-1½)	5560-1½ 615 (700-1½)	5720-2 675 (700-2)	6000-3 955 (1000-3)



SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	6828
028°	TDZE	5022
	Apt Elev	5045

RNAV (RNP) RWY 3R

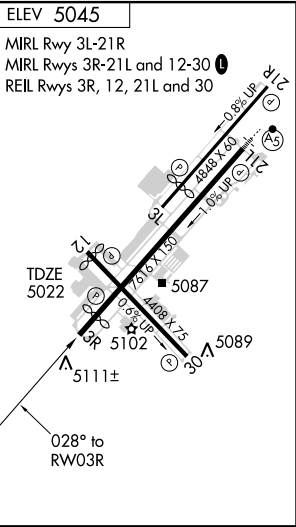
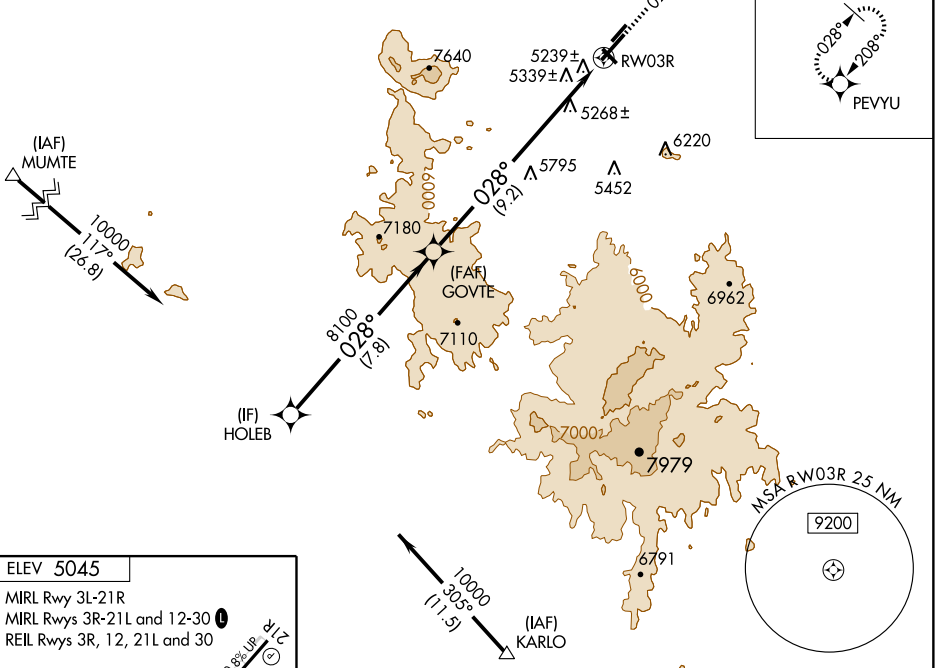
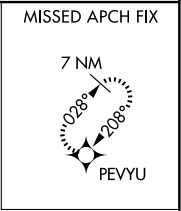
PRESCOTT / ERNEST A. LOVE FIELD (PRC)

NA GPS required. For uncompensated Baro-VNAV systems, procedure NA below -11°C (12°F) or above 54°C (130°F). Visibility reduction by helicopters NA. Procedure NA at night.

MISSED APPROACH: Climb to 9100 via track 028° to PEVYU and hold.

ATIS	ALBUQUERQUE CENTER	PRESCOTT TOWER ★	GND CON	PRESCOTT RADIO	128.75 (12-30) 125.3 (CTAF) (3R-21L)
127.2	128.45 298.9	125.3 (CTAF) 257.9	121.7	122.4 255.4	

Procedure NA for arrival at KARLO via V105 southeast bound, and for arrival at MUMTE via V12 southwest bound.



HOLEB		GOVTE		9100	PEVYU
10000		8100		↑	✧
Procedure Turn NA		028°		trk 028°	
GS 3.00°		8100		VGSi and RNAV glidepath not coincident.	
TCH 62		7.8 NM		9.2 NM	
CATEGORY	A	B	C	D	
RNP 0.15 DA	5492-1½	470 (500-1½)		NA	
RNP 0.30 DA	5667-2¼	645 (700-2¼)		NA	

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

VORTAC DRK 114.1 Chan 88	APP CRS 125°	Rwy Idg TDZE Apt Elev	4258 5024 5045
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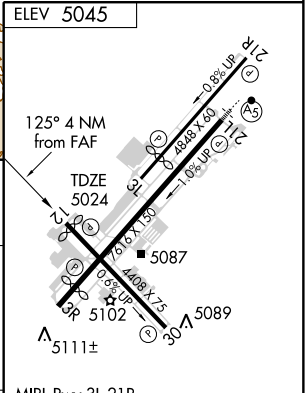
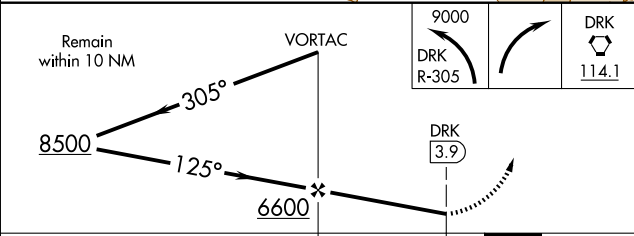
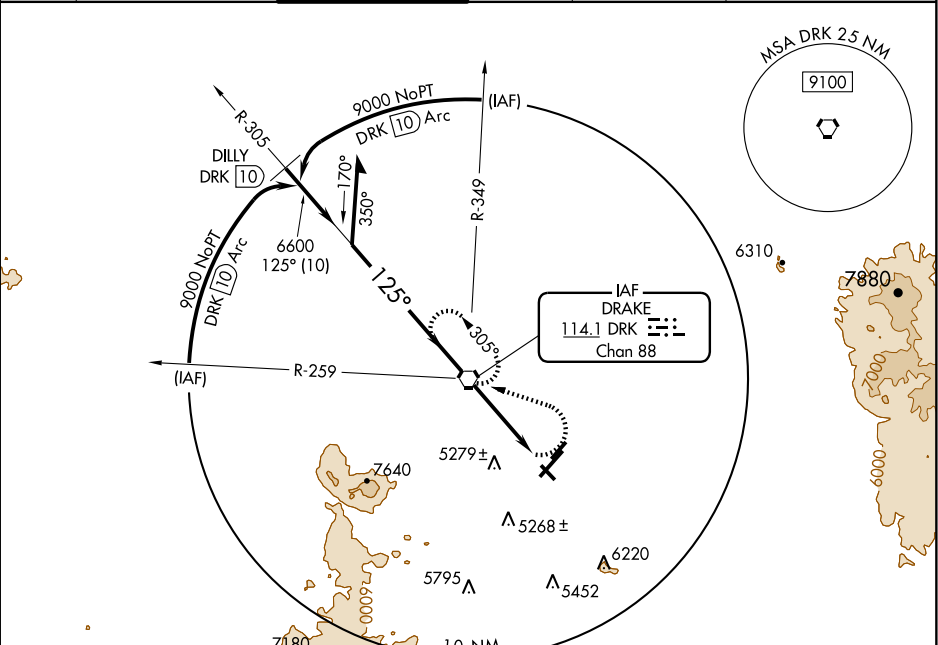
VOR RWY 12

PRESCOTT / ERNEST A. LOVE FIELD (PRC)



MISSED APPROACH: Climbing left turn to 9000 via DRK VORTAC and DRK R-305, then turn right direct DRK VORTAC and hold.

ATIS 127.2	ALBUQUERQUE CENTER 128.45 298.9	PRESCOTT TOWER ★ 125.3 (CTAF) 257.9	GND CON 121.7	PRESCOTT RADIO 122.4 255.4	128.75 ① (12-30) 125.3 (CTAF) ① (3R-21L)
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		← 3.9 NM →		0.1				MIRL Rwy 3L-21R MIRL Rwys 3R-21L and 12-30 REIL Rwys 3R, 12, 21L and 30			
CATEGORY	A		B	C		D					
S-12	5540-1		516 (500-1)	5540-1½ 516 (500-1½)		5540-1¾ 516 (500-1¾)		FAF to MAP 3.9 NM			
CIRCLING	5540-1	5580-1		5720-2	5940-3						
	495 (500-1)	535 (600-1)		675 (700-2)	895 (900-3)						
						Knots	60	90	120	150	180
						Min:Sec	3:54	2:36	1:57	1:34	1:18

APP CRS
123°

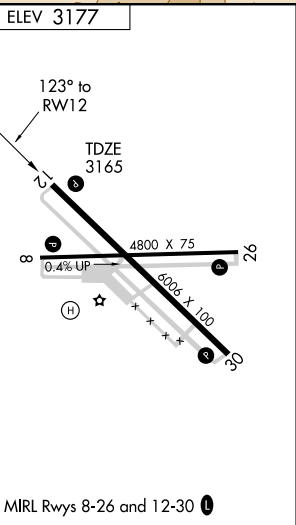
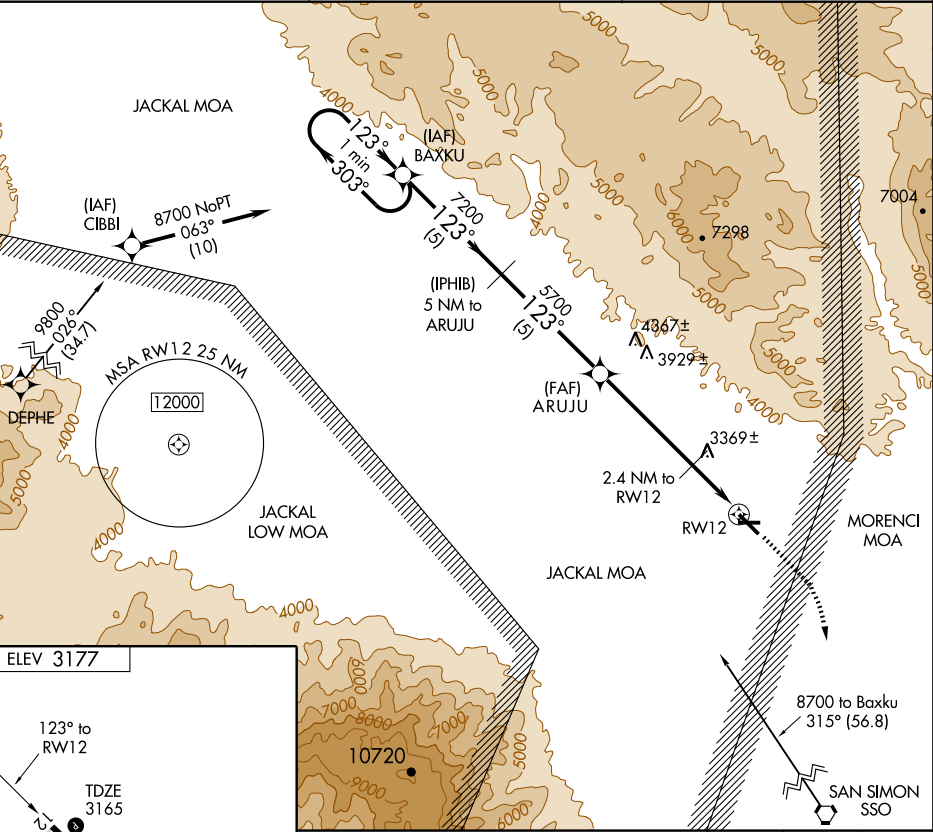
Rwy Idg
TDZE
Apt Elev

6006
3165
3177


NA

MISSED APPROACH: Climb to 4000 then climbing right turn to 8700 direct SSO VORTAC.

ASOS 124.175	ALBUQUERQUE CENTER 134.45 327.15	UNICOM 122.8 (CTAF) 
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One Minute Holding Pattern			
BAXKU		(IPHIB) 5 NM to ARUJU	ARUJU
8700 ← 303°		123° →	7200
		5700	4080
		2.4 NM to RW12	RW12
5 NM		5 NM	4.6 NM
CATEGORY	A	B	C D
S-12	3560-1	395 (400-1)	NA
CIRCLING	3720-1 543 (600-1)	3760-1 583 (600-1)	NA

SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	6006
303°	TDZE	3167
	Apt Elev	3177

GPS RWY 30
SAFFORD RGNL (SAD)

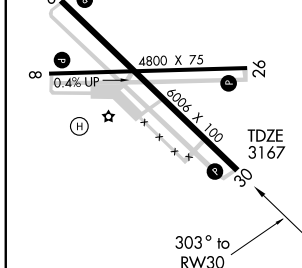
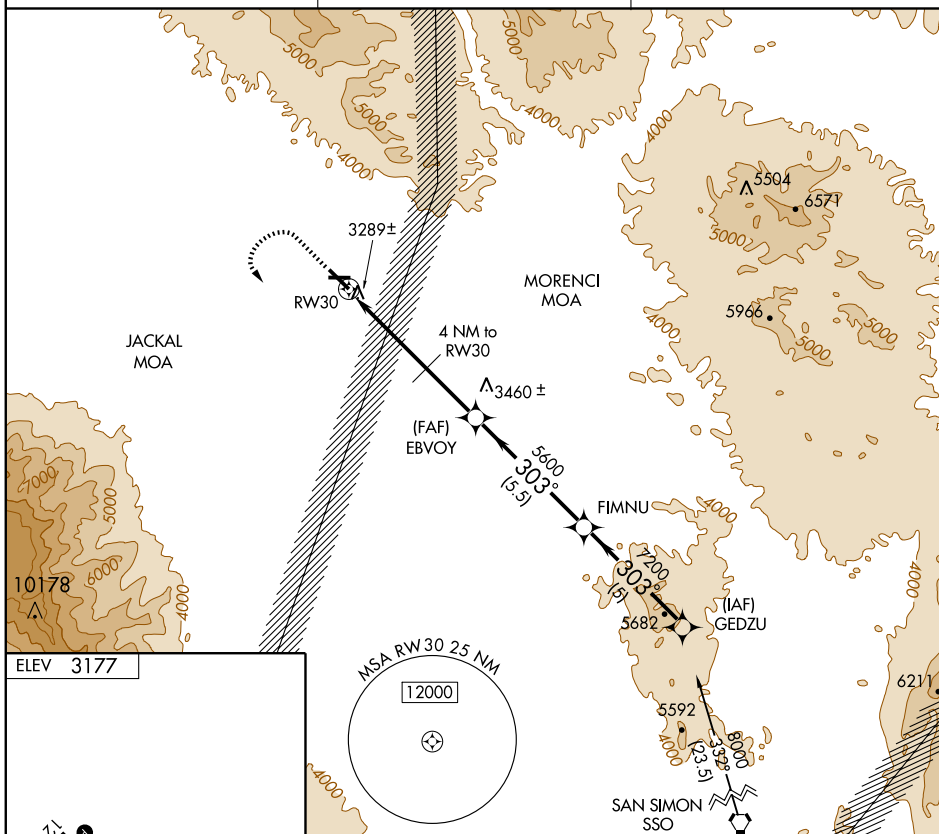


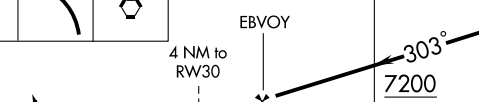
MISSED APPROACH: Climb to 4000 then climbing left turn to 8700 direct SSO VORTAC.

ASOS
124.175

ALBUQUERQUE CENTER
134.45 327.15

UNICOM
122.8 (CTAF) **L**



4000 ↑	8700 ↖	SSO 		
CATEGORY	A	B	C	D
S-30	3540-1	373 (400-1)	NA	
CIRCLING	3720-1 543 (600-1)	3760-1 583 (600-1)	NA	

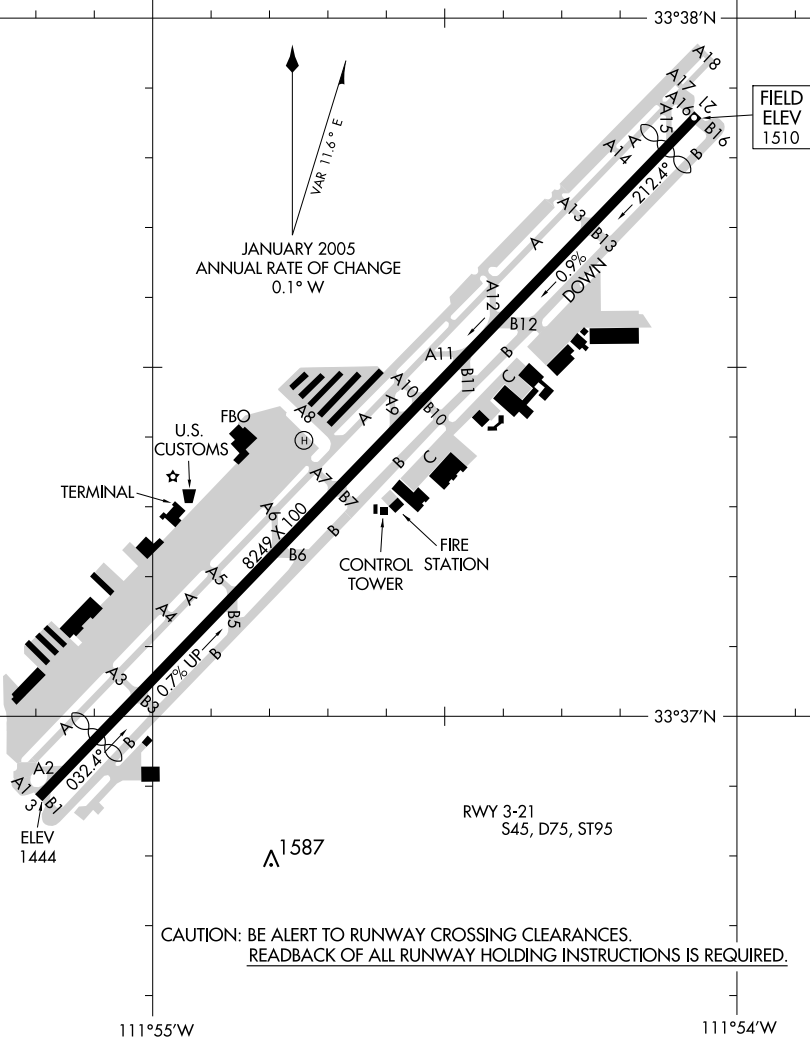
MIRL Rwy 8-26 and 12-30 L

AIRPORT DIAGRAM

AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

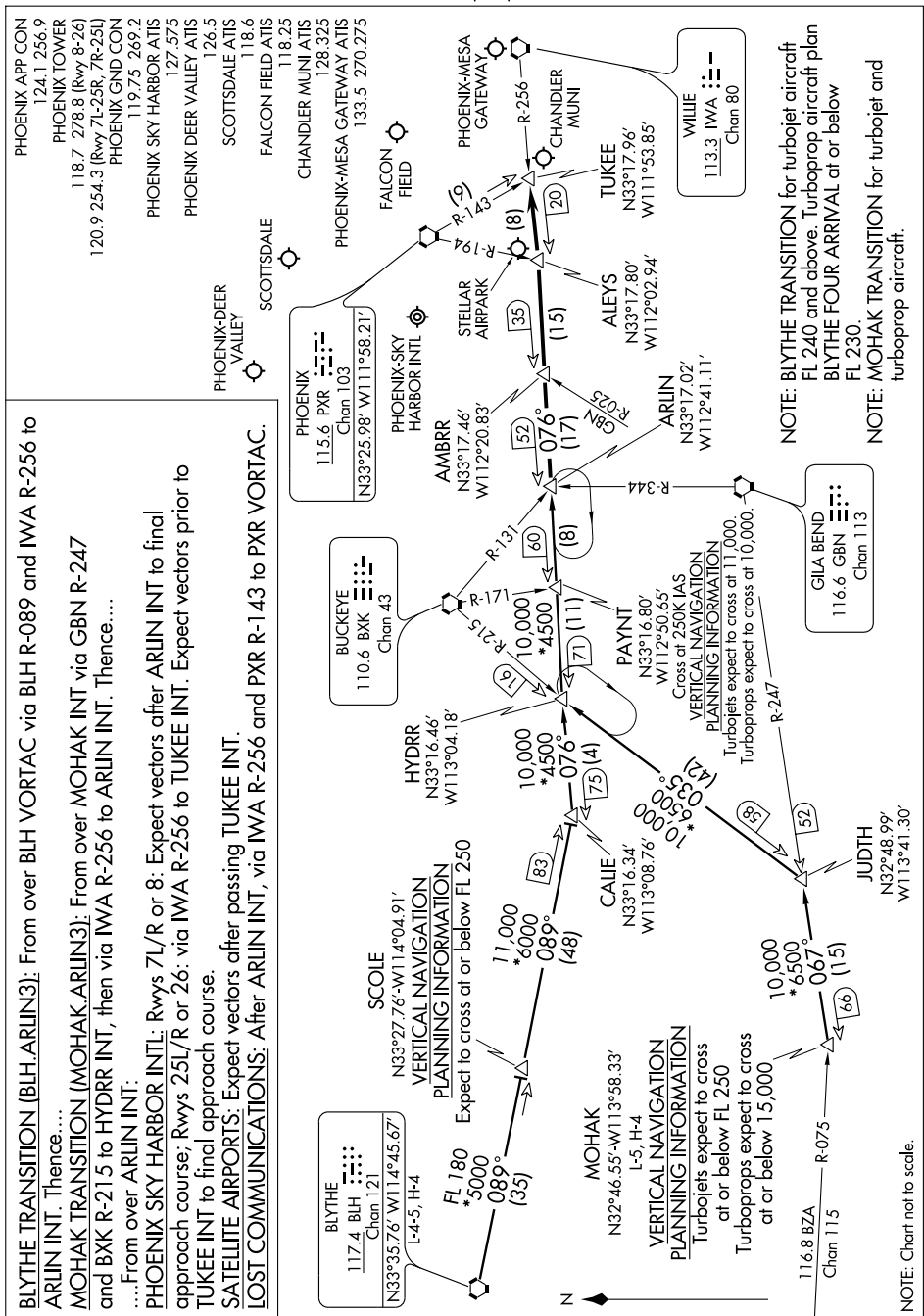
ATIS
118.6
SCOTTSDALE TOWER ★
119.9
GND CON
121.6
CLNC DEL
124.8



ARLIN THREE ARRIVAL

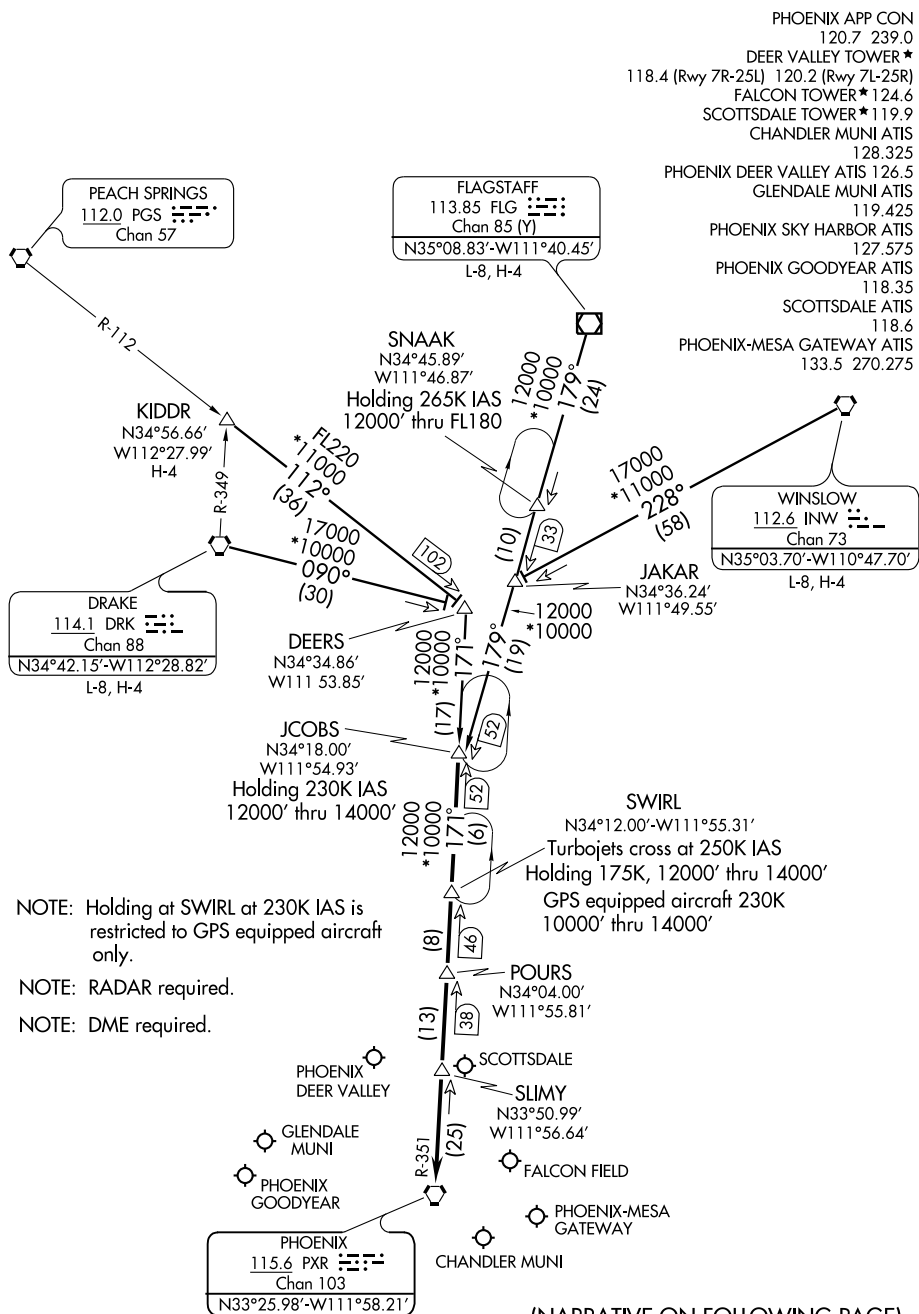
ST-322 (FAA)

PHOENIX, ARIZONA



JCBS TWO ARRIVAL

SCOTTSDALE, ARIZONA



JCOBS TWO ARRIVAL

SCOTTSDALE, ARIZONA

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC via DRK R-090 to DEERS INT, then via PXR R-351 to JCOBS INT. Thence....

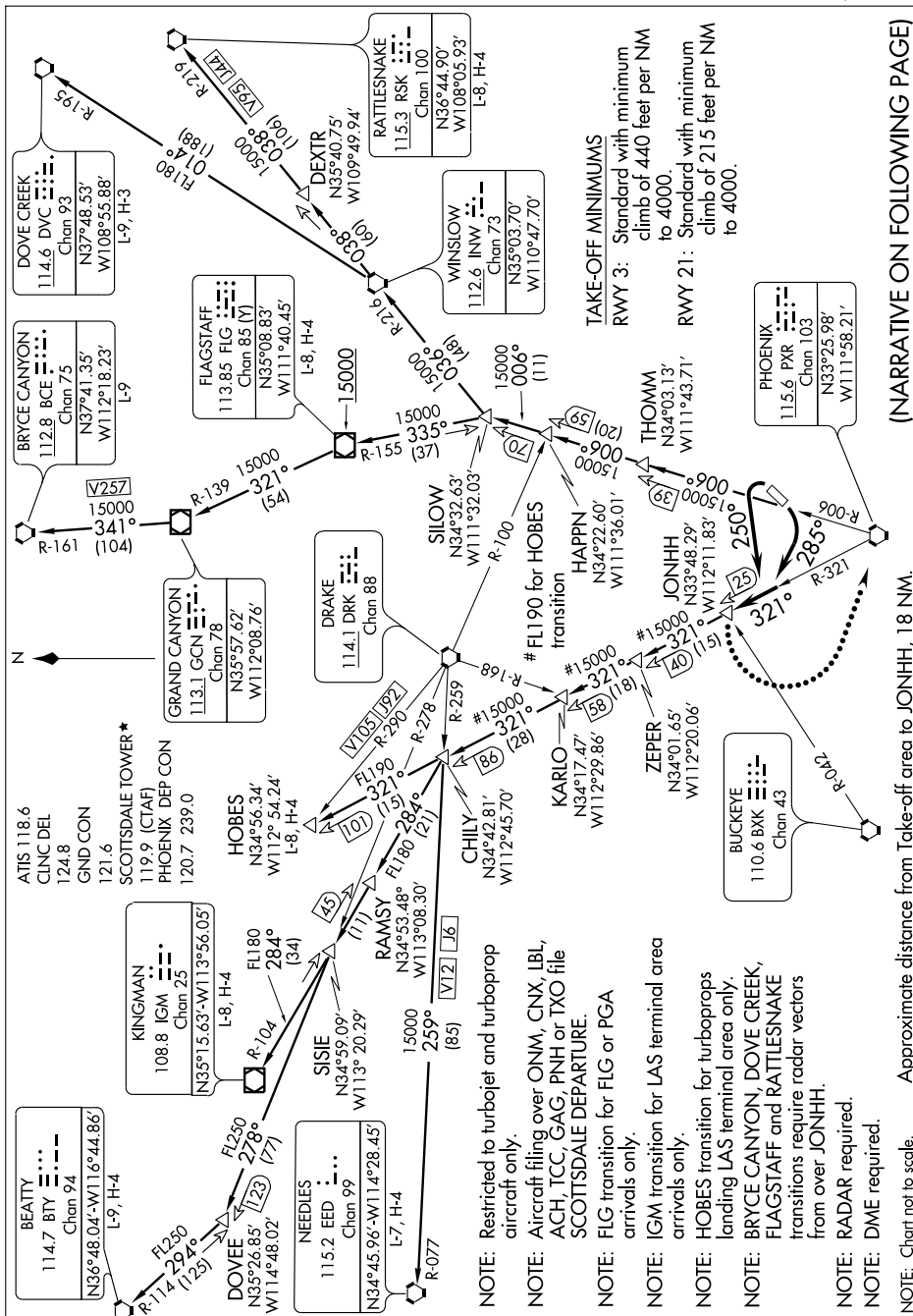
FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME via FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT via PGS R-112 to DEERS INT then via PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC via INW R-228 to JAKAR INT, then via FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climbing left turn heading 250° to intercept and proceed via PXR R-321 to JONHH INT. Thence

TAKE-OFF RUNWAY 21: Climbing right turn heading 285° to intercept and proceed via PXR R-321 to JONHH INT. Thence

. . . . Via assigned transition.

LOST COMMUNICATIONS: If not in contact with departure control at JONHH INT, turn left direct to PXR VORTAC, thence via assigned transition. Expect filed altitude 3 minutes after departure.

BEATTY TRANSITION (JONHH1.BTY): From over JONHH INT via PXR R-321 to CHILY INT, then via IGM R-104 to SISIE INT, then via DRK R-278 to DOVEE INT, and then via BTY R-114 to BTY VORTAC.

BRYCE CANYON TRANSITION (JONHH1.BCE): From over JONHH INT via radar vectors and PXR R-006 to SILOW INT, then via FLG R-155 to FLG VOR/DME, then via FLG R-321 and GCN R-139 to GCN VOR/DME, and then via GCN R-341 and BCE R-161 to BCE VORTAC.

DOVE CREEK TRANSITION (JONHH1.DVC): From over JONHH INT via radar vectors and PXR R-006 to SILOW INT, then via INW R-216 to INW VORTAC, and then via INW R-014 and DVC R-195 to DVC VORTAC.

FLAGSTAFF TRANSITION (JONHH1.FLG): From over JONHH INT via radar vectors and PXR R-006 to SILOW INT and via FLG R-155 to FLG VOR/DME.

HOBES TRANSITION (JONHH1.HOBES): From over JONHH INT via PXR R-321 to HOBES INT.

KINGMAN TRANSITION (JONHH1.IGM): From over JONHH INT via PXR R-321 to CHILY INT, then via IGM R-104 to IGM VOR/DME.

NEEDLES TRANSITION (JONHH1.EED): From over JONHH INT via PXR R-321 to CHILY INT, then via DRK R-259 and EED R-077 to EED VORTAC.

RATTLESNAKE TRANSITION (JONHH1.RSK): From over JONHH INT via radar vectors and PXR R-006 to SILOW INT, then via INW R-216 to INW VORTAC, and then via INW R-038 and RSK R-219 to RSK VORTAC.

TAKE-OFF OBSTACLE NOTES

Rwy 3: Multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1554' MSL.

Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1561' MSL.

Dike beginning 1066' from DER, 316' left of centerline, 38' AGL/1548' MSL.

Day marker on dike, 1230' from DER, 5' left of centerline, 39' AGL/1549' MSL.

Tree, 765' from DER, 115' left of centerline, 22' AGL/1532' MSL.

Road beginning 647' from DER, 296' left of centerline, 19' AGL/1529' MSL.

Fence beginning 5' from DER, 338' right of centerline, 6' AGL/1511' MSL.

Light standard, 1013' from DER, 430' right of centerline, 44' AGL/1552' MSL.

Rwy 21: Trees 1072' from DER, 426' right of centerline, 53' AGL/1497' MSL.

Building 316' from DER, 537' right of centerline, 23' AGL/1467' MSL.

Tree 2087' from DER, 418' left of centerline, 61' AGL/1505' MSL.

Tree 1432' from DER, 438' right of centerline, 38' AGL/1482' MSL.

Tree 2234' from DER, 559' left of centerline, 58' AGL/1502' MSL.

▼

▲

DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Phoenix Sky Harbor altimeter setting and increase all MDA 100 feet; increase Cat C visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4200 direct PXR VORTAC and hold.

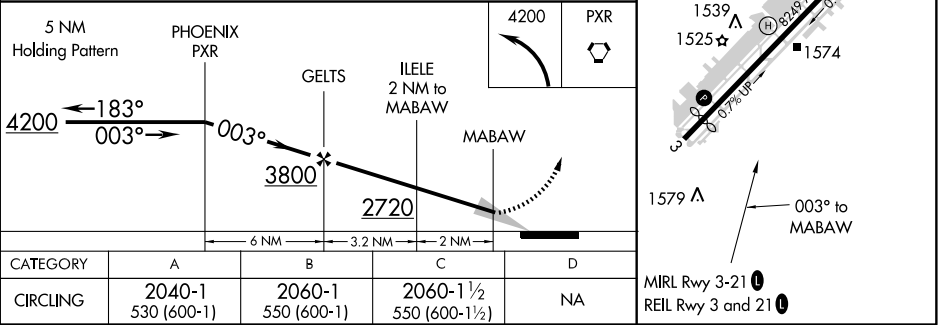
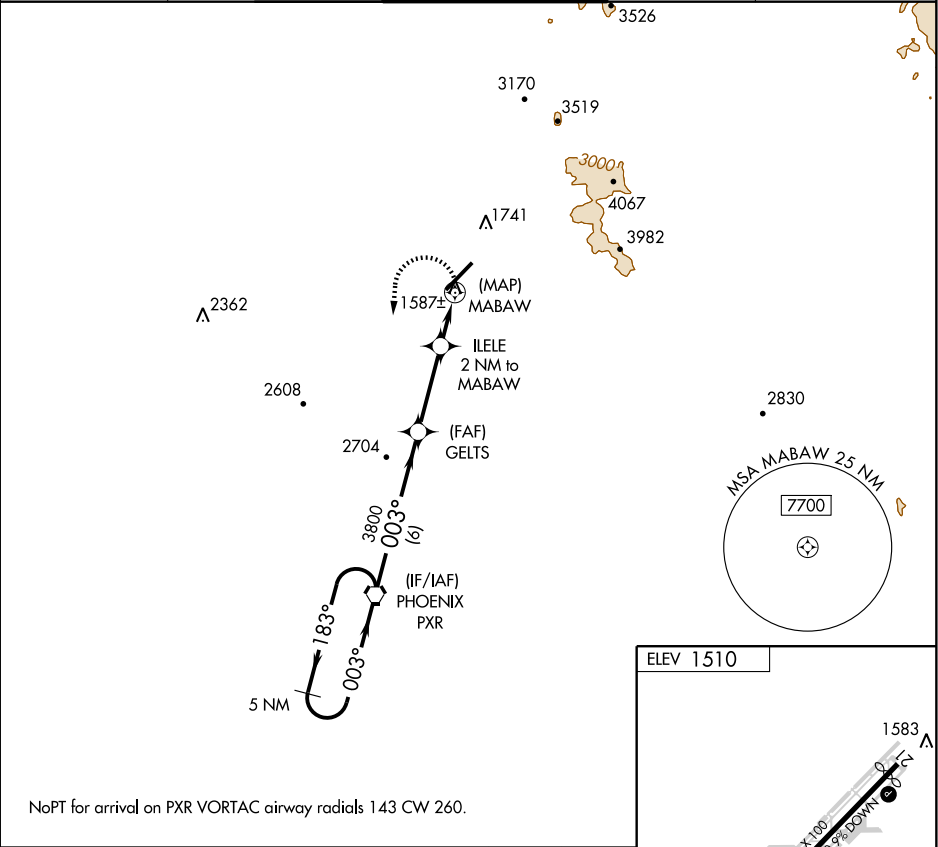
ATIS
118.6

PHOENIX APP CON
120.7 239.0

SCOTTSDALE TOWER ★
119.9 (CTAF) 0

GND CON
121.6

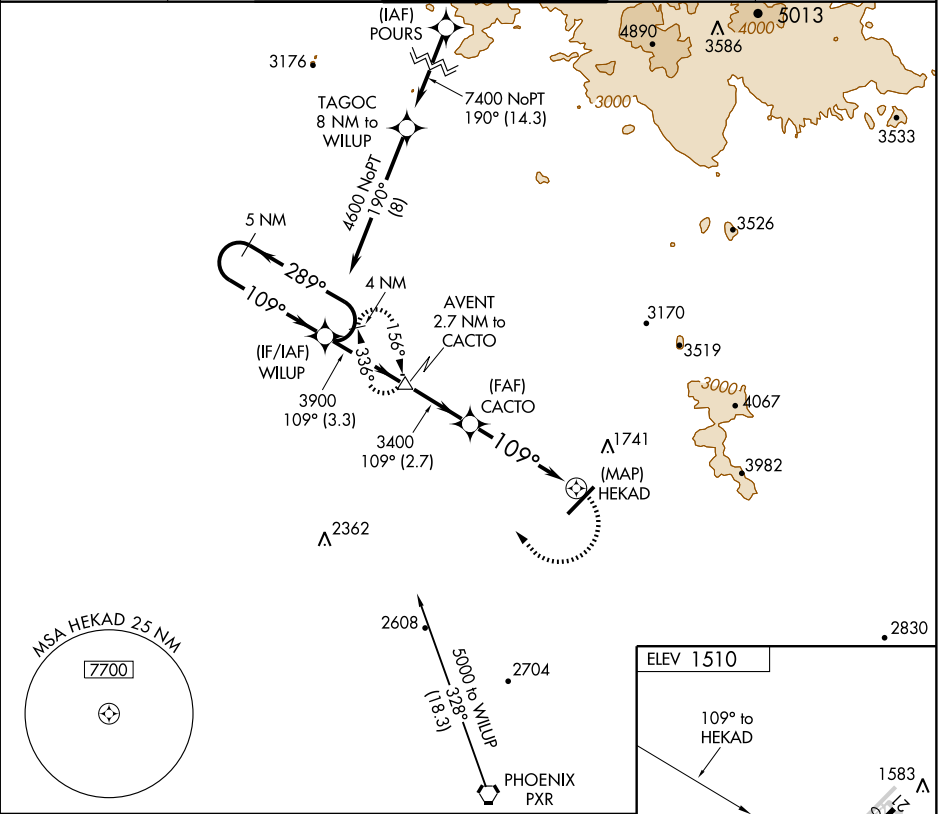
CLNC DEL
124.8



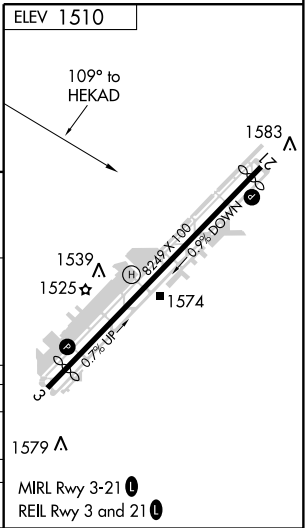
DME/DME RNP- 0.3 NA.
When local altimeter setting not received, use Phoenix Sky Harbor altimeter setting.

MISSED APPROACH: Climbing right turn to 5000 direct AVENT and hold.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
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5 NM Holding Pattern				
4600 ← 289° / 109° →				
WILUP AVENT 2.7 NM to CACTO CACTO HEKAD				
3900 3400				
3.3 NM 2.7 NM 4.4 NM				
CATEGORY	A	B	C	D
CIRCLING	2080-1	570 (600-1)	2080-1½ 570 (600-1½)	NA
PHOENIX SKY HARBOR ALTIMETER SETTING MINIMUMS				
CIRCLING	2160-1	650 (700-1)	2160-1¾ 650 (700-1¾)	NA



APP CRS	Rwy Idg	7849
212°	TDZE	1510
	Apt Elev	1510

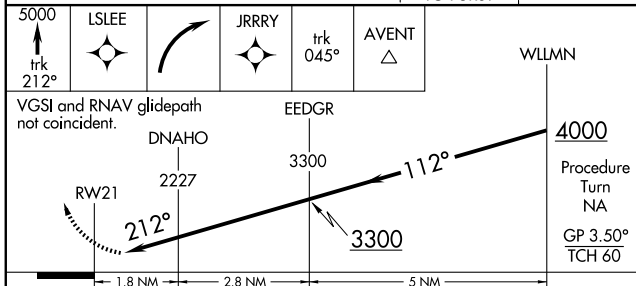
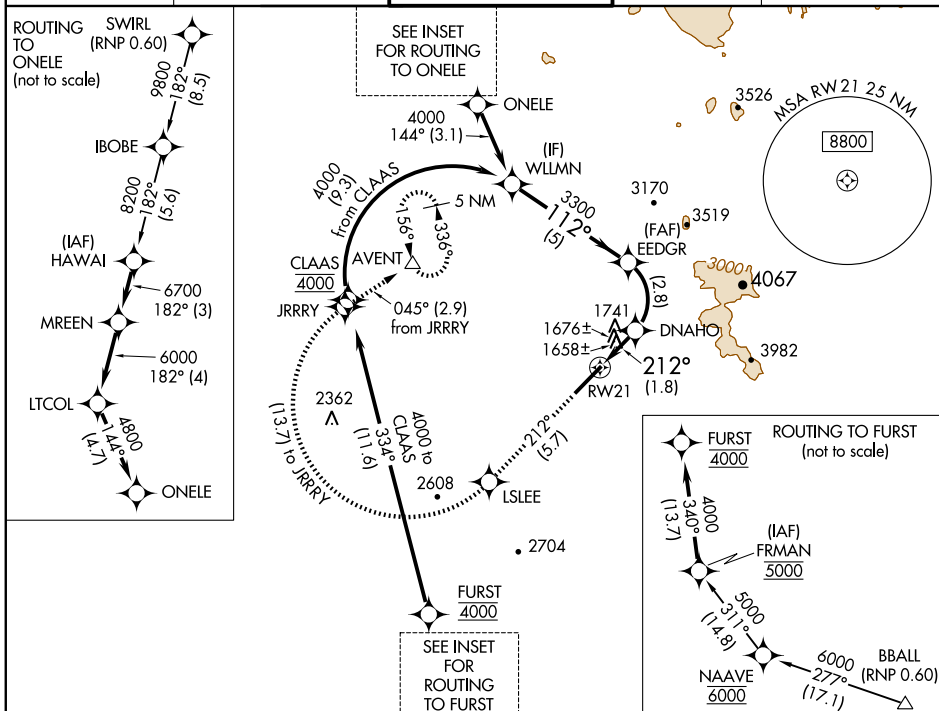
RNAV (RNP) RWY 21

SCOTTSDALE (SDL)

RF and GPS required. Visibility reduction by helicopters NA.
 For uncompensated Baro-VNAV systems, procedure NA below 1°C (31°F) or above 44°C (112°F).
 When local altimeter setting not received procedure NA.

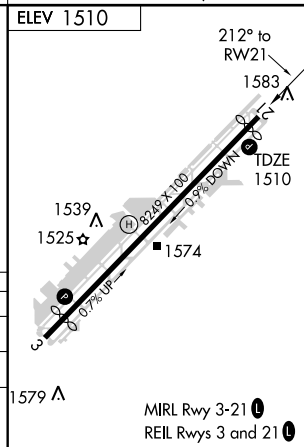
MISSED APPROACH: Climb to 5000 via track 212° to LSLEE, and via right turn to JRRRY, and via track 045° to AVENT and hold.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
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CATEGORY	A	B	C	D
RNP 0.10 DA	1948-1¼	438 (500-1¼)		NA
RNP 0.16 DA	1987-1½	477 (500-1½)		NA

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



APP CRS 032°	Rwy Idg 7510 TDZE 1470 Apt Elev 1510
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RNAV (RNP) Y RWY 3 SCOTTSDALE (SDL)

T RF and GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (31°F) or above 54°C (130°F). When local altimeter setting not received procedure NA. Missed approach requires RNP less than 1.0.

MISSED APPROACH: Climb to 5000 via left turn to AXFUR, and via left turn to BWFO, and via track 341° to CERID, and via right turn to DUYGE, and via left turn to EGEDE, and via track 155° to AVENT and hold.

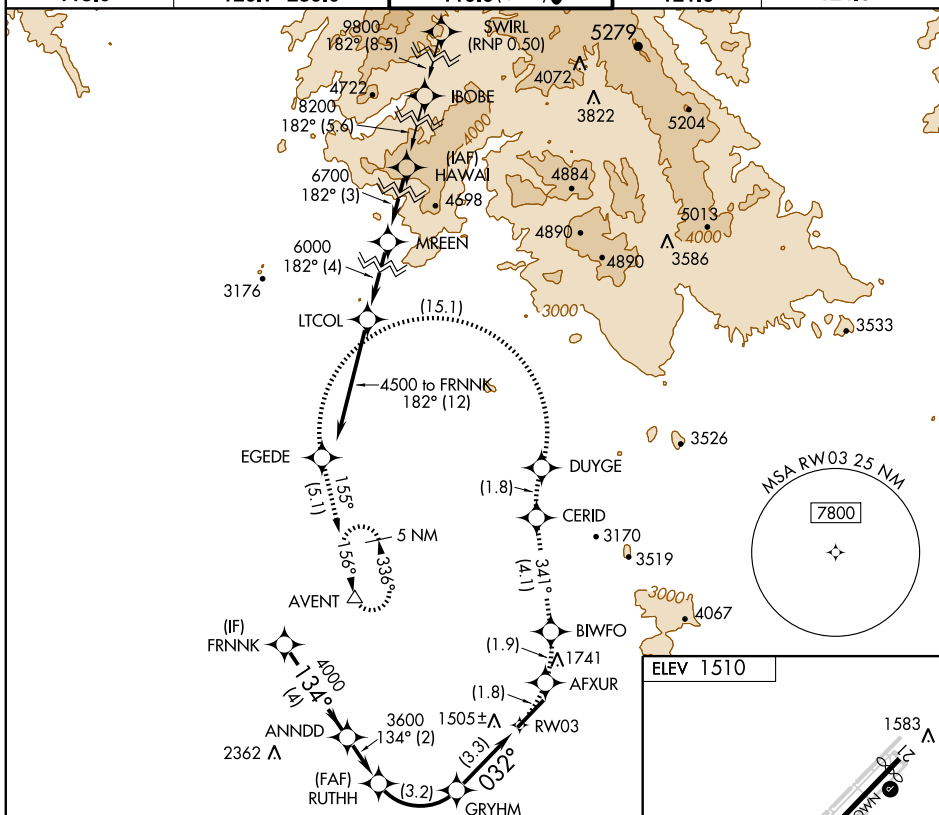
ATIS
118.6

PHOENIX APP CON
120.7 239.0

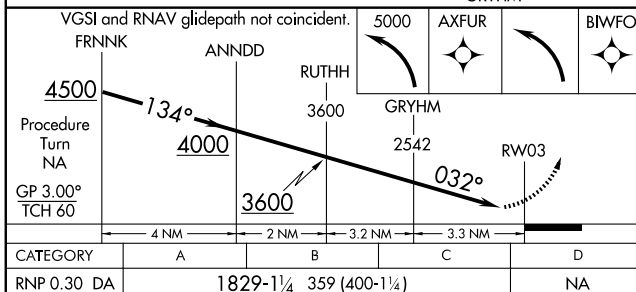
SCOTTSDALE TOWER
119.9 (CTAF) **L**

GND CON
121.6

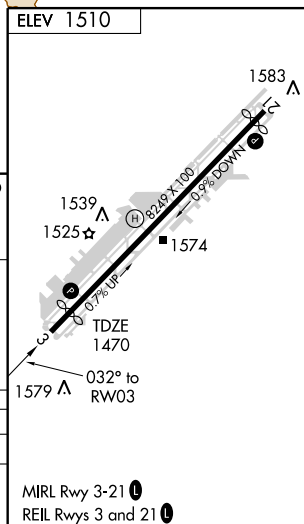
CLNC DEL
124.8



SW-4. 14 JAN 2010 to 11 FEB 2010



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



APP CRS	Rwy Idg	7510
032°	TDZE	1470
	Apt Elev	1510

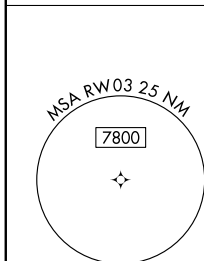
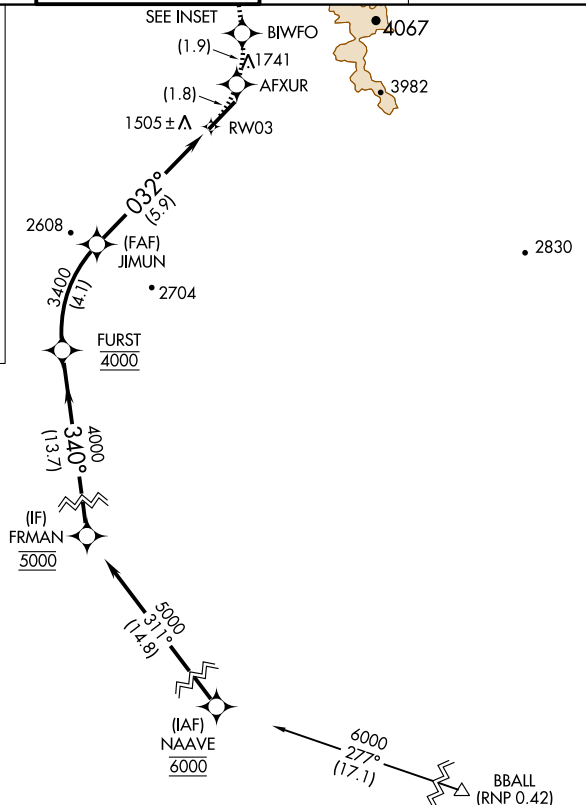
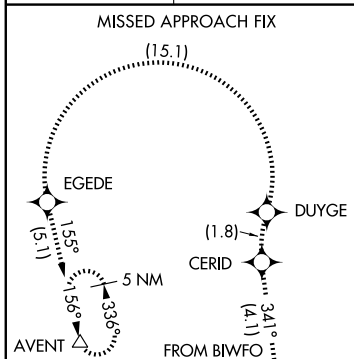
RNAV (RNP) Z RWY 3

SCOTTSDALE (SDL)

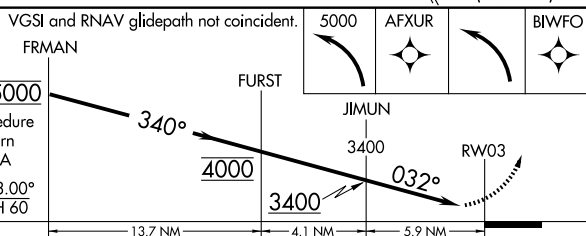
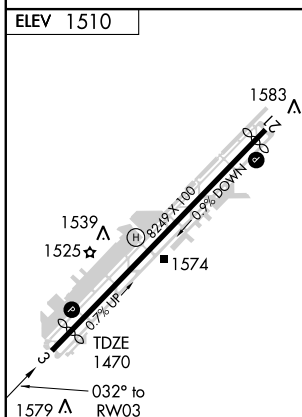
RF and GPS required. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, procedure NA below
1°C (31°F) or above 54°C (130°F). When local altimeter setting not
received procedure NA. Missed approach requires RNP less than 1.0.

MISSED APPROACH: Climb to 5000 via left turn to
AFXUR, and via left turn to BIWFO, and via track 341°
to CERID, and via right turn to DUYGE, and via left turn
to EGEDE, and via track 155° to AVENT and hold.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
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ELEV 1510



CATEGORY	A	B	C	D
RNP 0.30 DA	1829-1¼	359 (400-1¼)		NA

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

MIRL Rwy 3-21 0

REIL Rwy 3 and 21 0



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climbing left turn heading 250° to intercept and proceed via PXR R-321 to JONHH INT. Thence

TAKE-OFF RUNWAY 21: Climbing right turn heading 285° to intercept and proceed via PXR R-321 to JONHH INT. Thence

. . . . via radar vectors to (assigned route).

LOST COMMUNICATIONS: If not in contact with departure control at JONHH INT, turn left direct to PXR VORTAC, thence via assigned transition . Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (SCOT6.ABQ): From over JONHH INT via radar vectors and PXR R-054 and SJN R-236 to SJN VORTAC, then via SJN R-059 and ABQ R-240 to ABQ VORTAC.

BLYTHE TRANSITION (SCOT6.BLH): From over JONHH INT via radar vectors and BXK R-077 to BXK VORTAC, then via BXK R-262 and BLH R-080 to BLH VORTAC.

BUCKEYE TRANSITION (SCOT6.BXK): From over JONHH INT via radar vectors and BXK R-077 to BXK VORTAC.

COCHISE TRANSITION (SCOT6.CIE): From over JONHH INT via radar vectors and TFD R-343 to TFD VORTAC, then via TFD R-107 to PUSCH INT, and then via CIE R-278 to CIE VORTAC.

DINGO TRANSITION (SCOT6.DINGO): From over JONHH INT via radar vectors and TFD R-343 to TFD VORTAC, then via TFD R-133 to BASER INT, and then via TUS R-295 to DINGO INT.

GILA BEND TRANSITION (SCOT6.GBN): From over JONHH INT via radar vectors and PXR R-206 to MOBIE INT, then via GBN R-055 to GBN VORTAC.

TUCSON TRANSITION (SCOT6.TUS): From over JONHH INT via radar vectors and TFD R-343 to TFD VORTAC, then via TFD R-121 and TUS R-301 to TUS VORTAC.

TAKE-OFF OBSTACLE NOTES

RWY 3: Multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1554' MSL.

Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1561' MSL.

Dike beginning 1066' from DER, 316' left of centerline, 38' AGL/1548' MSL.

Day marker on dike, 1230' from DER, 5' left of centerline, 39' AGL/1549' MSL.

Tree 765' from DER, 115' left of centerline, 22' AGL/1532' MSL.

Road beginning 647' from DER, 296' left of centerline, 19' AGL/1529' MSL.

Fence beginning 5' from DER, 338' right of centerline, 6' AGL/1511' MSL.

Light standard 1013' from DER, 430' right of centerline, 44' AGL/1552' MSL.

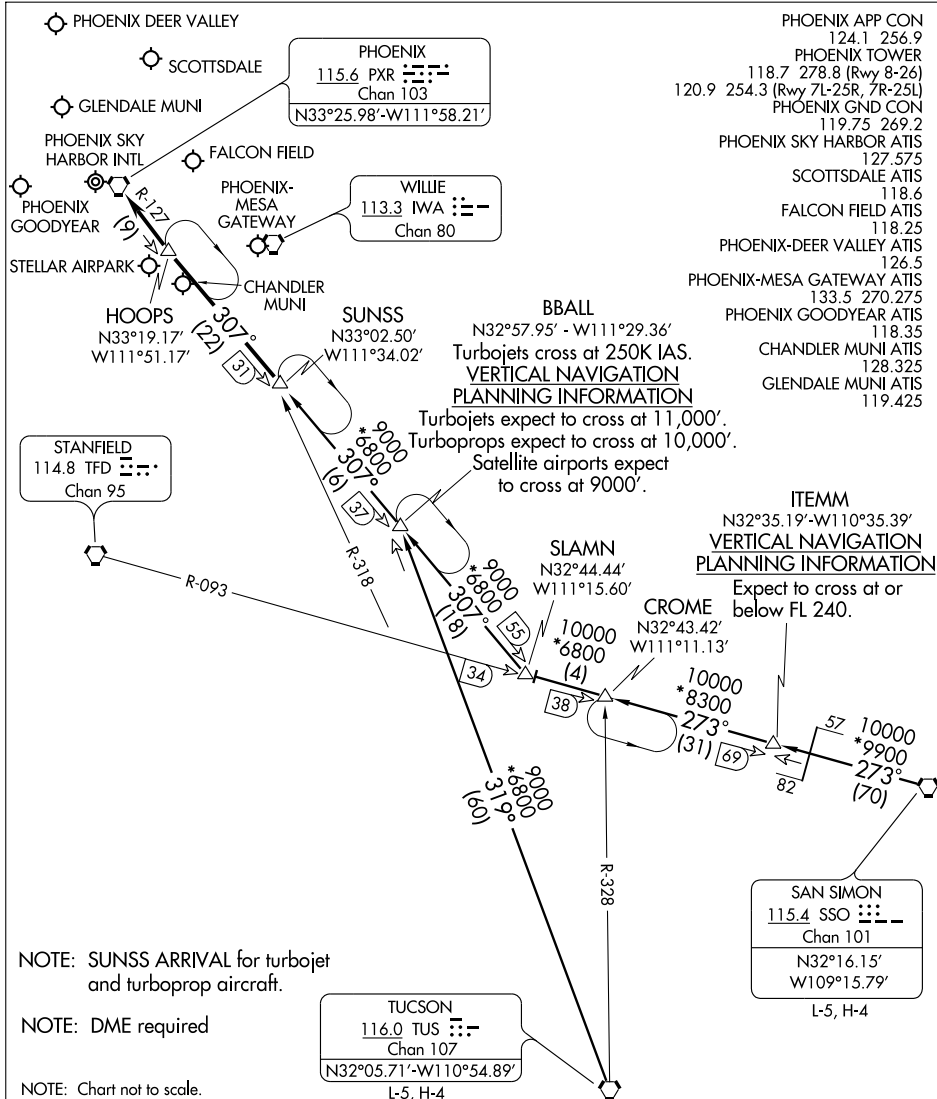
RWY 21: Trees 1072' from DER, 426' right of centerline, 53' AGL/1497' MSL.

Building 316' from DER, 537' right of centerline, 23' AGL/1467' MSL.

Tree 2087' from DER, 418' left of centerline, 61' AGL/1505' MSL.

Tree 1432' from DER, 438' right of centerline, 38' AGL/1482' MSL.

Tree 2234' from DER, 559' left of centerline, 58' AGL/1502' MSL.



SAN SIMON TRANSITION (SSO.SUNSS6): From over SSO VORTAC via SSO R-273 and TFD R-093 to SLAMN, then via PXR R-127 to SUNSS. Thence....

TUCSON TRANSITION (TUS.SUNSS6): From over TUS VORTAC via TUS R-319 to BBALL, then via PXR R-127 to SUNSS. Thence....

....from over SUNSS via PXR R-127 to PXR VORTAC, expect radar vectors after HOOPS.

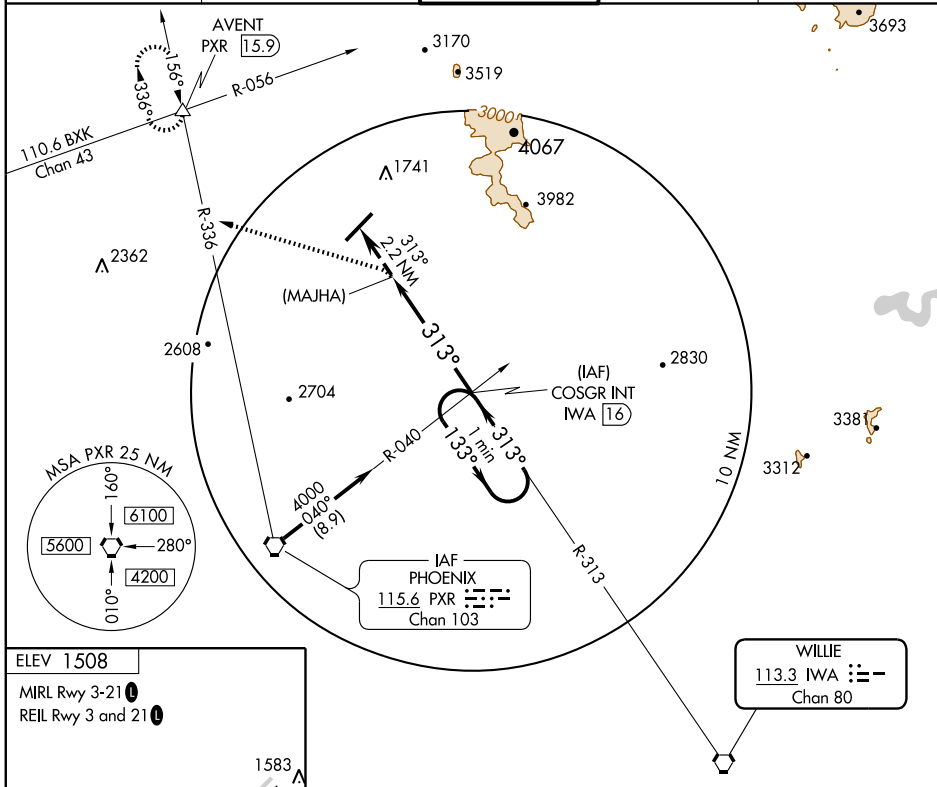
VOR or GPS-C
SCOTTSDALE (SDL)

VORTAC IWA <u>113.3</u> Chan 80	APP CRS 313°	Rwy Idg TDZE Apt Elev	N/A N/A 1508
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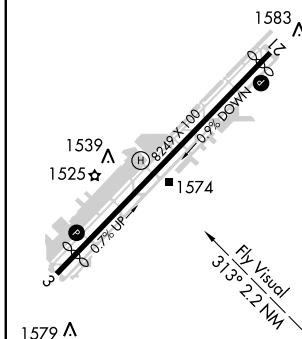
T When local altimeter setting not received, use
A Phoenix Sky Harbor altimeter setting minimums.

MISSED APPROACH: Climbing left turn to 7000 via heading 280° and PXR R-336 outbound, reaching 7000, continue direct AVENT Int/PXR 15.9 DME and hold.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
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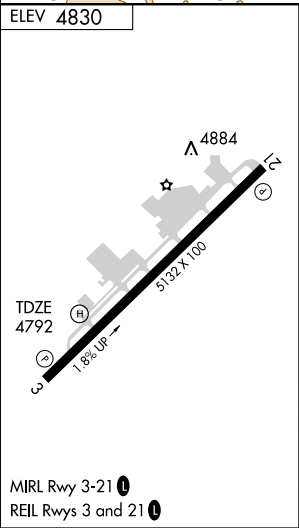
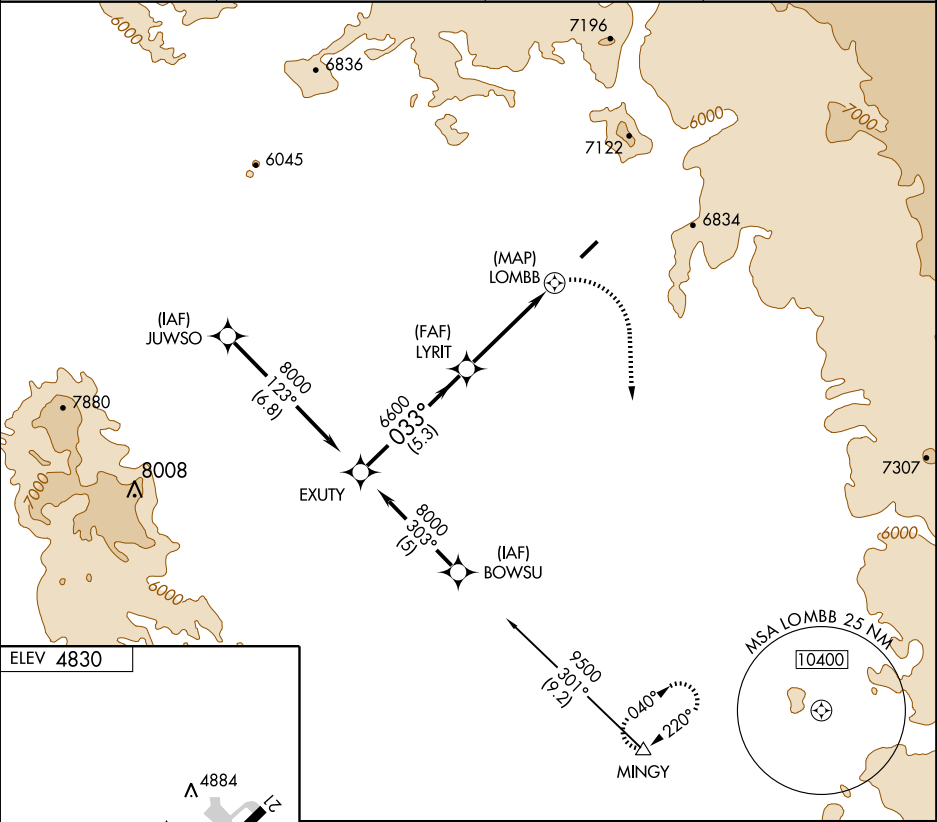
ELEV 1508
MIRL Rwy 3-21 L
REIL Rwy 3 and 21 L



APP CRS	Rwy Idg	5132
033°	TDZE	4792
	Apt Elev	4830

▼ NA When local altimeter not received, procedure not authorized. Cat D circling not authorized northwest of Rwy 3-21.	MISSED APPROACH: Climbing right turn to 12000 direct MINGY WP and hold.
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AWOS-2 118.525	ALBUQUERQUE CENTER 124.5 306.2	PRESCOTT RADIO 122.3	UNICOM 123.0 (CTAF) 0
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EXUTY		VGS and descent angles not coincident.		12000	MINGY
8000		LYRIT		LOMBB	
Procedure Turn NA		6600		3.00° TCH 50	
5.3 NM		4.4 NM		1.3 NM	
CATEGORY	A	B	C	D	
S-3	6140-1½ 1348 (1400-1½)	6240-1½ 1448 (1500-1½)	6560-3	1768 (1800-3)	
CIRCLING	6140-1½ 1310 (1400-1½)	6240-1½ 1410 (1500-1½)	6560-3	1730 (1800-3)	

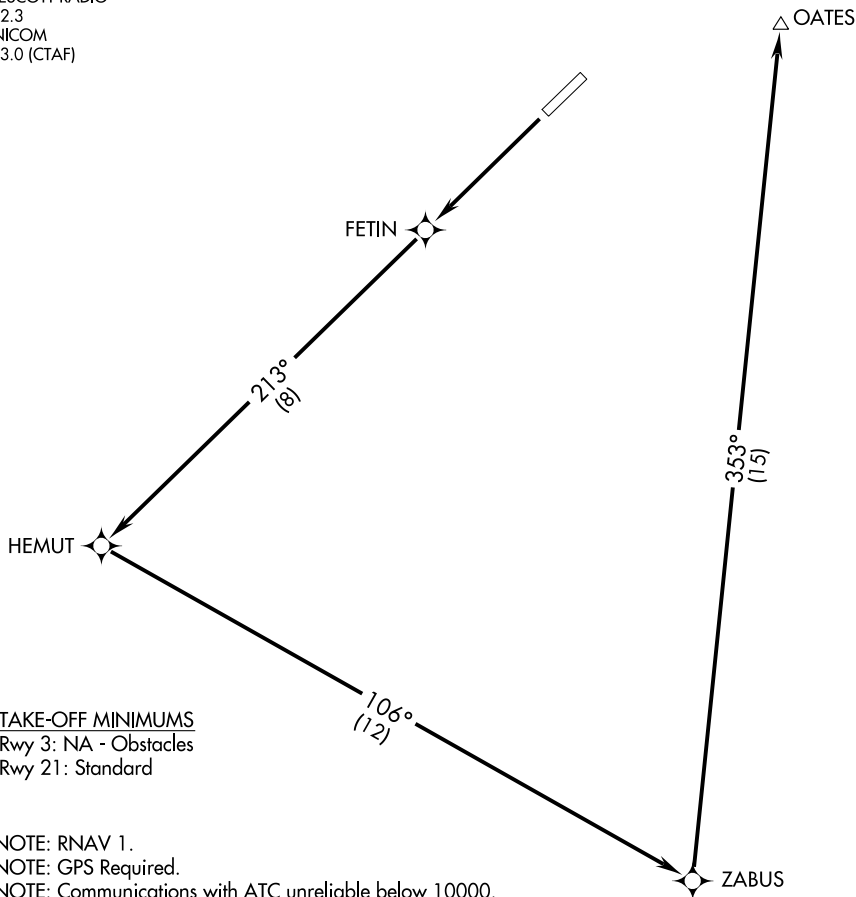
(OATES1.OATES) 08101

OATES ONE DEPARTURE (RNAV) (OBSTACLE)

SL-6169 (FAA)

SEDONA (SEZ)
SEDONA, ARIZONA

ALBUQUERQUE CENTER
124.5 306.2
PRESCOTT RADIO
122.3
UNICOM
123.0 (CTAF)



TAKE-OFF MINIMUMS

Rwy 3: NA - Obstacles

Rwy 21: Standard

NOTE: RNAV 1.

NOTE: GPS Required.

NOTE: Communications with ATC unreliable below 10000.

TAKE-OFF OBSTACLE NOTES:

Rwy 21: Trees beginning 1642' from DER, 240' right of centerline, up to 100' AGL/4786' MSL.

Bush 147' from DER, 202' left of centerline, 5' AGL/4740' MSL.

NOTE: Chart not to scale

SW-4, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 21: Climb direct FETIN then via 213° track/8 NM to HEMUT, then left turn via 106° track/12 NM to ZABUS, then left turn via 353° track/15 NM to OATES. Maintain 10500 or assigned altitude.

NDB SOW 206	APP CRS 205°	Rwy Idg TDZE Apt Elev	N/A N/A 6415
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NDB-A

SHOW LOW RGNL (SOW)

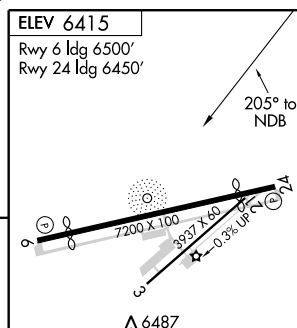
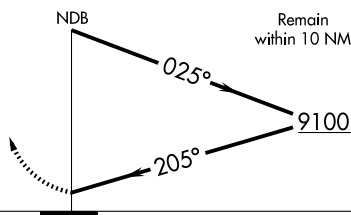
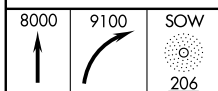
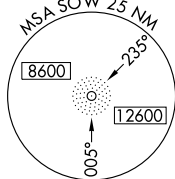
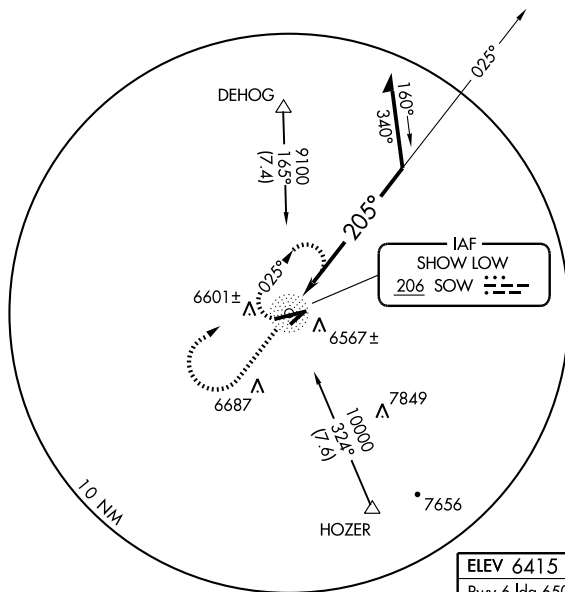


ANA

Obtain local altimeter setting on CTAF; when not received, procedure NA.

MISSED APPROACH: Climb to 8000 then climbing right turn to 9100 direct SOW NDB and hold.

AWOS-3 118.075	ALBUQUERQUE CENTER 132.9 239.05	UNICOM 123.0 (CTAF) 0
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REIL Rwy 6 and 24
MIRL Rwy 6-24 **L**

CATEGORY	A	B	C	D						
CIRCLING	7600-1¼ 1185 (1200-1¼)	7600-1½ 1185 (1200-1½)	7600-3 1185 (1200-3)	NA	Knots	60	90	120	150	180
					Min:Sec					

APP CRS
243°

Rwy Idg	6450
TDZE	6405
Apt Elev	6415

RNAV (GPS) RWY 24

SHOW LOW RGNL (SOW)



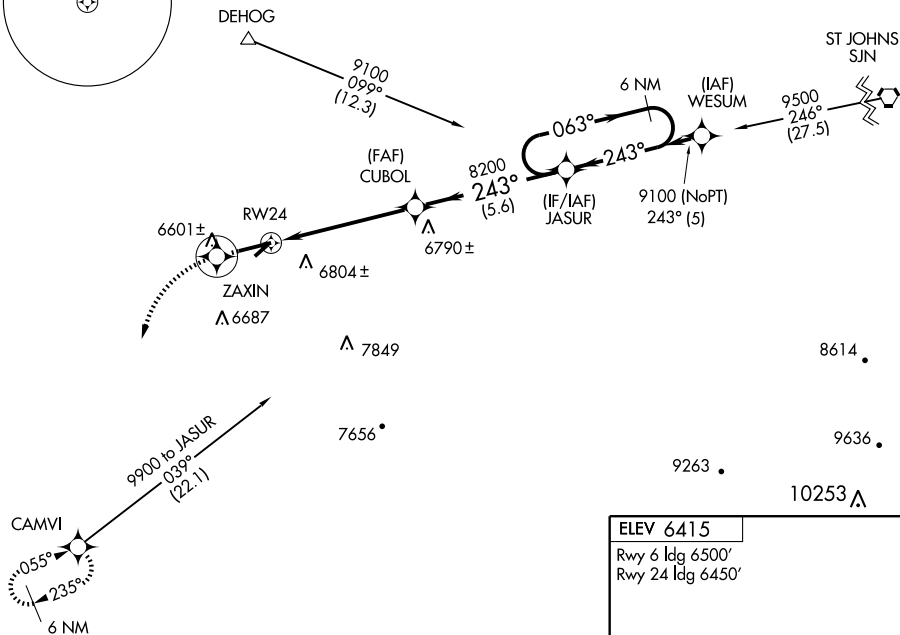
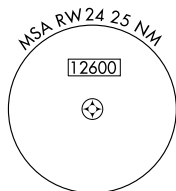
Obtain local altimeter setting on CTAF; when not received, procedure NA.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA southeast of Rwy 3 and 24.

MISSED APPROACH: Climb to 12000 via 243° course to ZAXIN WP, then left turn direct CAMVI WP and hold.

AWOS-3
118.075

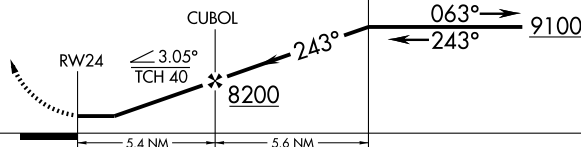
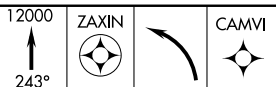
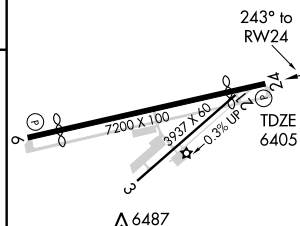
ALBUQUERQUE CENTER
132.9 239.05

UNICOM
123.0 (CTAF) **L**



ELEV 6415

Rwy 6 ldg 6500'
Rwy 24 ldg 6450'



CATEGORY	A	B	C	D
INAV MDA	6860-1	455 (500-1)	6860-1 $\frac{1}{4}$ 455 (500-1 $\frac{1}{4}$)	NA
CIRCLING	6960-1	545 (600-1)	6960-1 $\frac{1}{2}$ 545 (600-1 $\frac{1}{2}$)	NA

REIL Rwy 6 and 24
MIRL Rwy 6-24 **L**

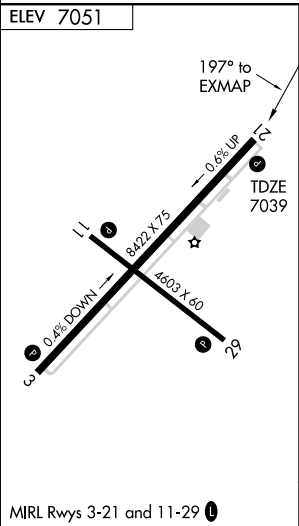
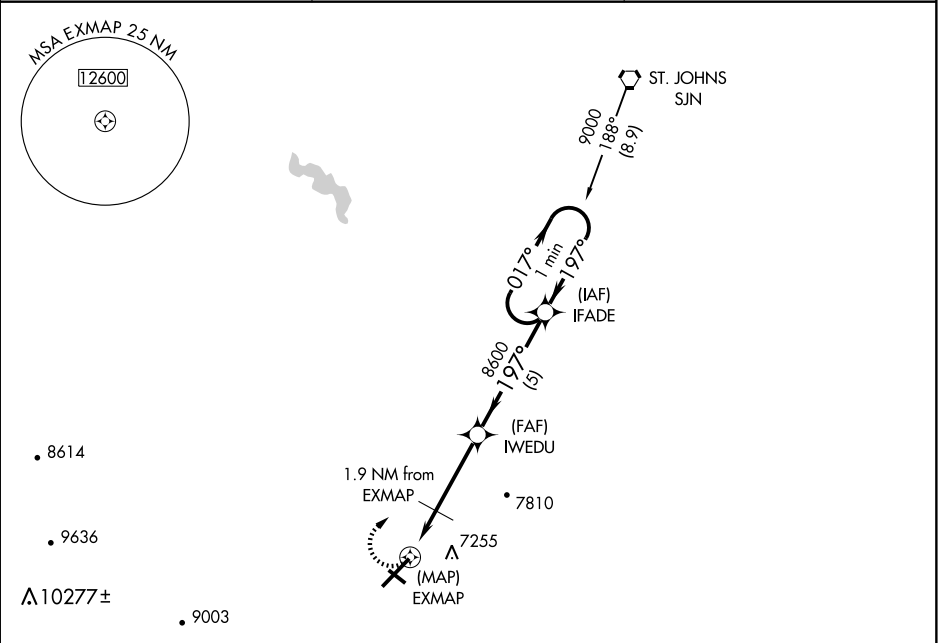
APP CRS	Rwy Idg	8422
197°	TDZE	7039
	Apt Elev	7051

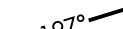
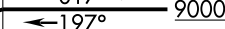
GPS RWY 21

SPRINGVILLE MUNI (D68)

 NA	Procedure not authorized at night. Obtain local altimeter setting on CTAF; if not received, procedure not authorized.	MISSED APPROACH: Climbing right turn to 12000 direct IFADE WP and hold.
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AWOS-3 119.65	ALBUQUERQUE CENTER 132.9 239.05	UNICOM 122.8 (CTAF) 
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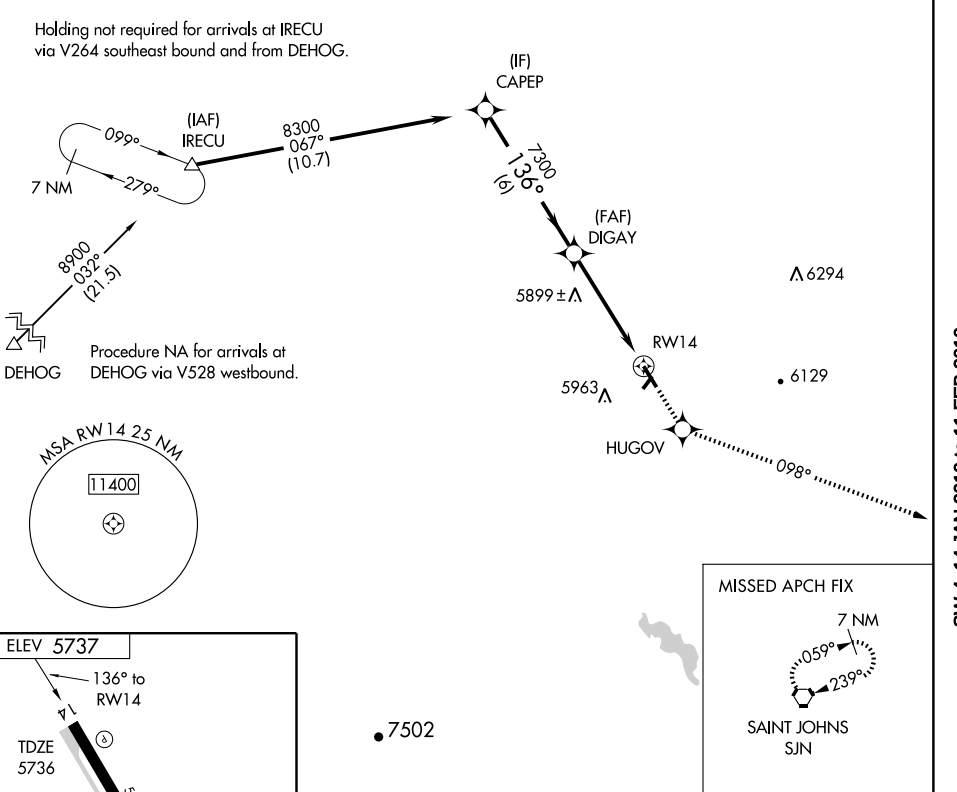


12000  IFADE 		IFADE One Minute Holding Pattern		
EXMAP  1.9 NM from EXMAP  1.9 NM		IWEDU  8600 3.1 NM	 197° 5 NM	
 017°  197° 9000				
CATEGORY	A	B	C	D
S-21	7360-1 321 (400-1)		NA	
CIRCLING	7560-1 509 (600-1)	7660-1 609 (700-1)	NA	

DME/DME RNP- 0.3 NA.
When local altimeter setting not received, use Show Low
altimeter setting and increase all MDAs 180 feet.
VDP NA when using Show Low altimeter setting.

MISSED APPROACH: Climb to 9000 direct HUGOV and via
098° track to SJN VORTAC and hold, continue climb-in-hold
to 9000.

ASOS 134.225	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF)
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VGS and descent angles not coincident.			
9000 HUGOV 098° track SJN			
8300 136° 7300 3.04° TCH 40 6 NM 3.5 NM 1.2 1.2 NM to RW14 RW14			
CATEGORY	A	B	C
LN AV MDA	6160-1	424 (500-1)	NA
CIRCLING	6240-1 503 (600-1)	6280-1 543 (600-1)	NA

APP CRS	Rwy Idg	5230
316°	TDZE	5737
	Apt Elev	5737

RNAV (GPS) RWY 32

ST. JOHNS INDUSTRIAL AIR PARK (SJT)

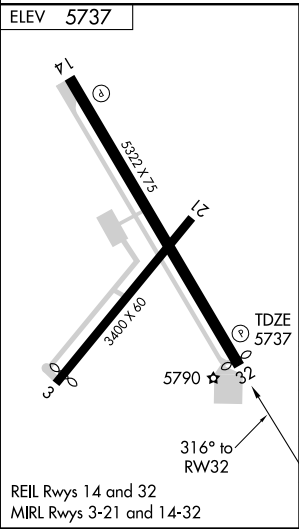
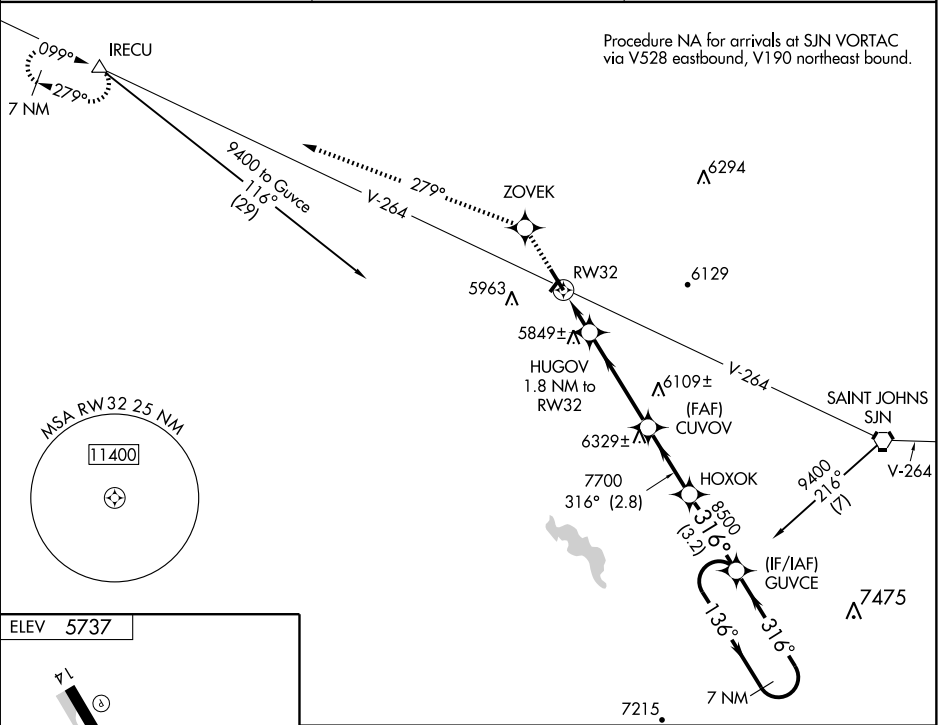
⚠ If local altimeter setting not received, use Show Low altimeter setting and increase all DAs/MDAs 180 feet. DME/DME RNP-0.3 NA.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-15°F) or above 30°C (86°F). Visibility reduction by helicopters NA.

Baro-VNAV and straight-in LNAV minimums NA when using Show Low altimeter setting.

MISSED APPROACH: Climb to 9400 direct ZOVEK and via 279° track to IRECU and hold.

ASOS 134.225	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF)
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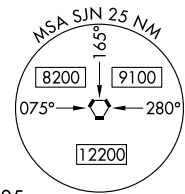
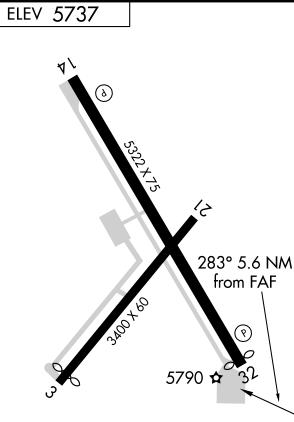
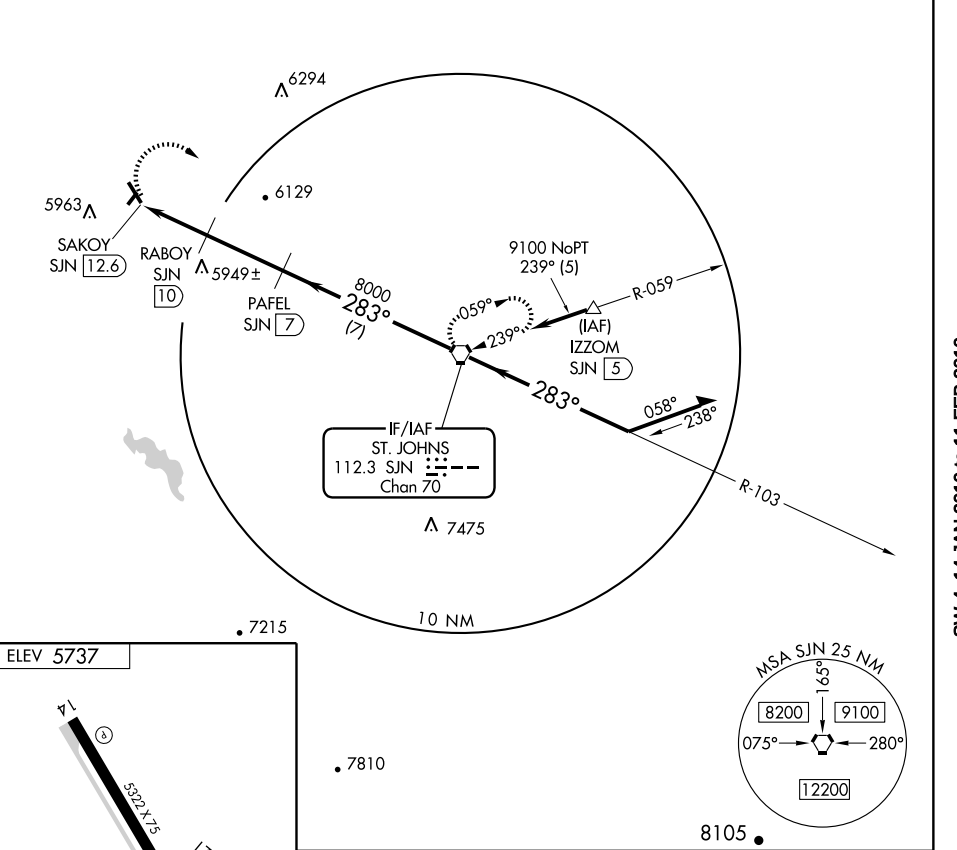


9400	ZOVEK	279° track	IRECU				
					HOXOK	GUVCE	7 NM Holding Pattern
* LNAV only	HUGOV 1.8 NM to RW32	CUVOV					
	RW32						
	6360*	7700					
	1.8 NM	4 NM	2.8 NM	3.2 NM			
CATEGORY	A	B	C	D			
LNAV/VNAV DA	6167-1½	430 (500-1½)		NA			
LNAV MDA	6140-1	403 (500-1)		NA			
CIRCLING	6240-1 503 (600-1)	6280-1 543 (600-1)		NA			

When local altimeter setting not received, use Show Low altimeter setting and increase all MDAs 180 feet.

MISSED APPROACH: Climbing right turn to 9100 direct SJN VORTAC and hold, continue climb-in-hold to 9100.

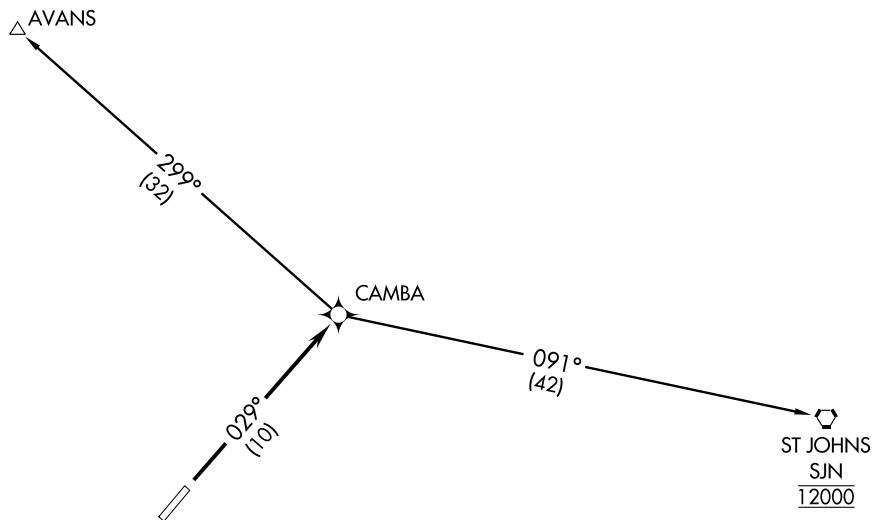
ASOS 134.225	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF)
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REIL Rwy 14 and 32
MIRL Rwy 3-21 and 14-32

9100	SJN 112.3	PAFEL SJN [7]	VORTAC	Remain within 10 NM
SAKOY SJN [12.6]	RABOY SJN [10]	8000	9100	9100
2.6 NM	3 NM	7 NM		
CATEGORY	A	B	C	D
CIRCLING	6240-1 503 (600-1)	6280-1 543 (600-1)	NA	

ALBUQUERQUE CENTER
132.9 239.05



NOTE: 1. GPS required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb to 8900 via course 029° to CAMBA WP, then via assigned transition.

AVANS TRANSITION (CAMBA1.AVANS)

ST JOHNS TRANSITION (CAMBA1.SJN)

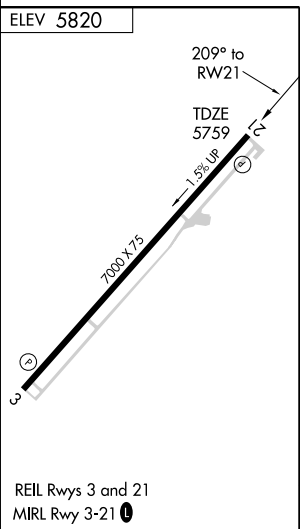
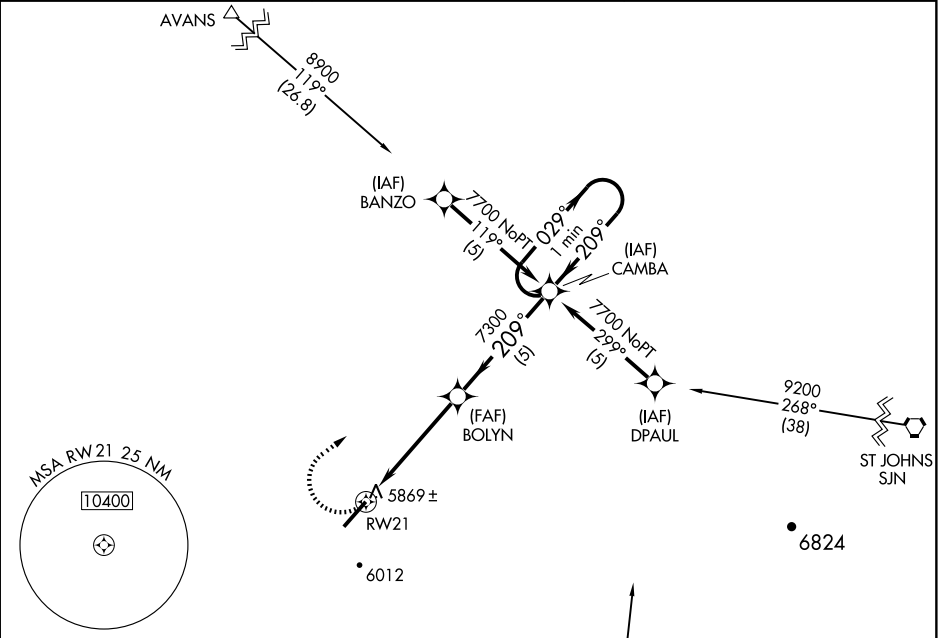
GPS RWY 21
TAYLOR MUNI (TYL)

APP CRS	Rwy Idg	7000
209°	TDZE	5759
	Apt Elev	5820

NA

MISSED APPROACH: Climbing right turn to 7700 direct CAMBA WP and hold.

AWOS-3 119.075	ALBUQUERQUE CENTER 132.9 239.05	UNICOM 122.7 (CTAF) 0
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7700 		CAMBA 		One Minute Holding Pattern	
 RW21		BOLYN ≤ 2.92° TCH 35	CAMBA	029° → ← 209° 7700	
		5 NM	5 NM		
CATEGORY	A	B	C	D	
S-21	6120-1 361 (300-1)				6120-1¼ 361 (300-1¼)
CIRCLING	6320-1 500 (500-1)	6380-1 560 (600-1)	6380-1½ 560 (600-1½)	6480-2 660 (700-2)	

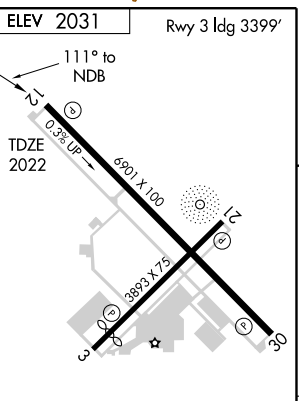
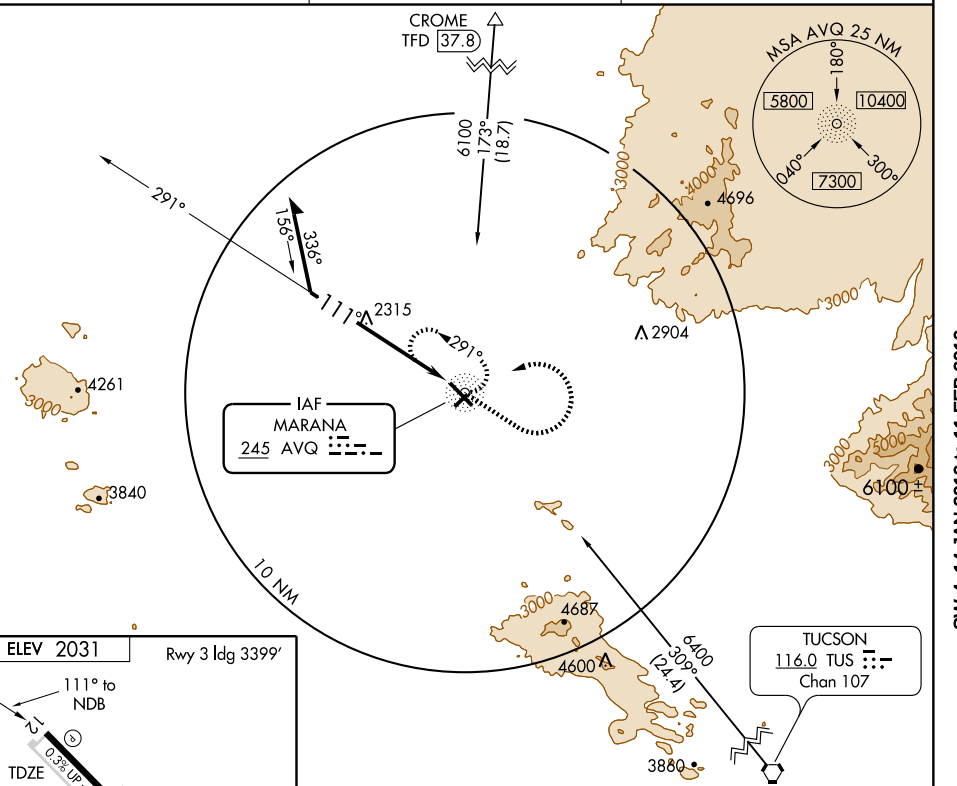
▼

NA

If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.

MISSED APPROACH: Climb to 3900 then climbing left turn to 5800 direct AVQ NDB and hold, continue climb-in-hold to 5800.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF)
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REIL Rwy 12 and 30 **L**

MIRL Rwy 3-21 and 12-30 **L**

Knots	60	90	120	150	180
Min:Sec					

Remain within 10 NM

4400

291°

111°

NDB 4800

3900

5800

AVQ 245

Maximum procedure turn entry altitude 10000

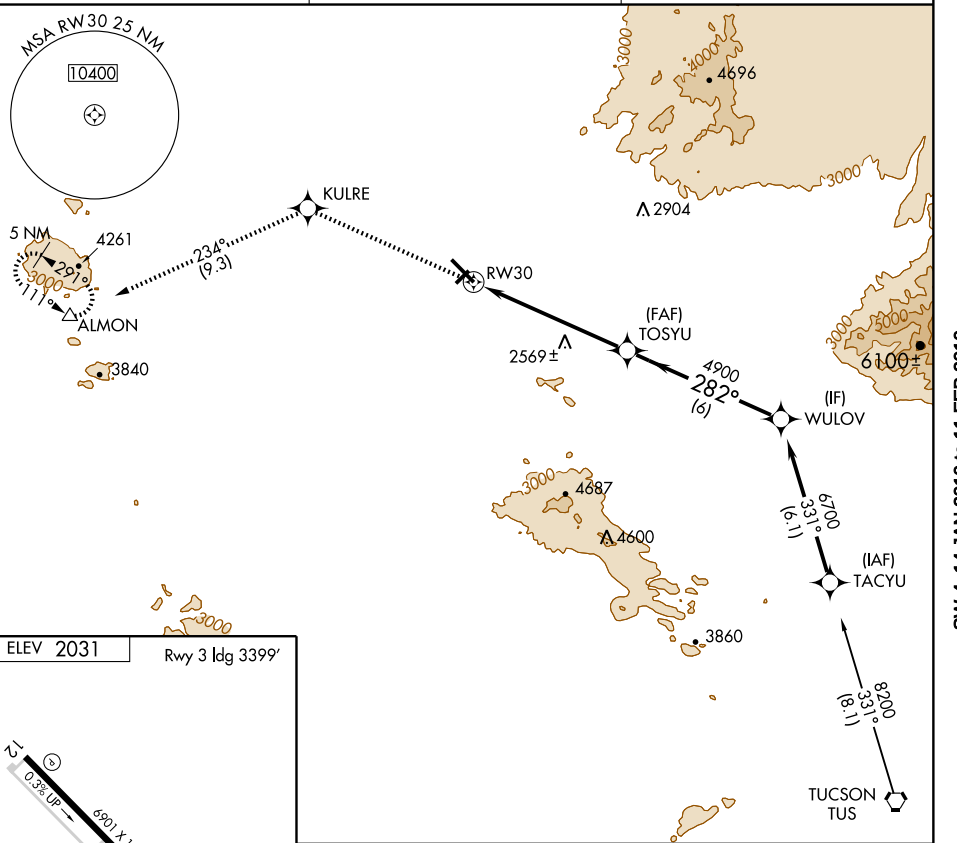
CATEGORY	A	B	C	D
S-12	3480-1¼ 1458 (1500-1¼)	3480-1½ 1458 (1500-1½)	3480-3 1458 (1500-3)	NA
CIRCLING	3480-1¼ 1449 (1500-1¼)	3480-1½ 1449 (1500-1½)	3480-3 1449 (1500-3)	NA



If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct KULRE and 234° track to ALMON and hold, continue climb-in-hold to 6000.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF)
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6000 KULRE 234° Track ALMON TOSYU WULOV 6700 Procedure Turn NA				
RW30 4900 282° 6 NM 6 NM				
CATEGORY	A	B	C	D
CIRCLING	2820-1 789 (800-1)	2820-1¼ 789 (800-1¼)	2820-2¼ 789 (800-2¼)	NA

REIL Rwy 12 and 30

MIRL Rwy 3-21 and 12-30

SW-4, 14 JAN 2010 to 11 FEB 2010

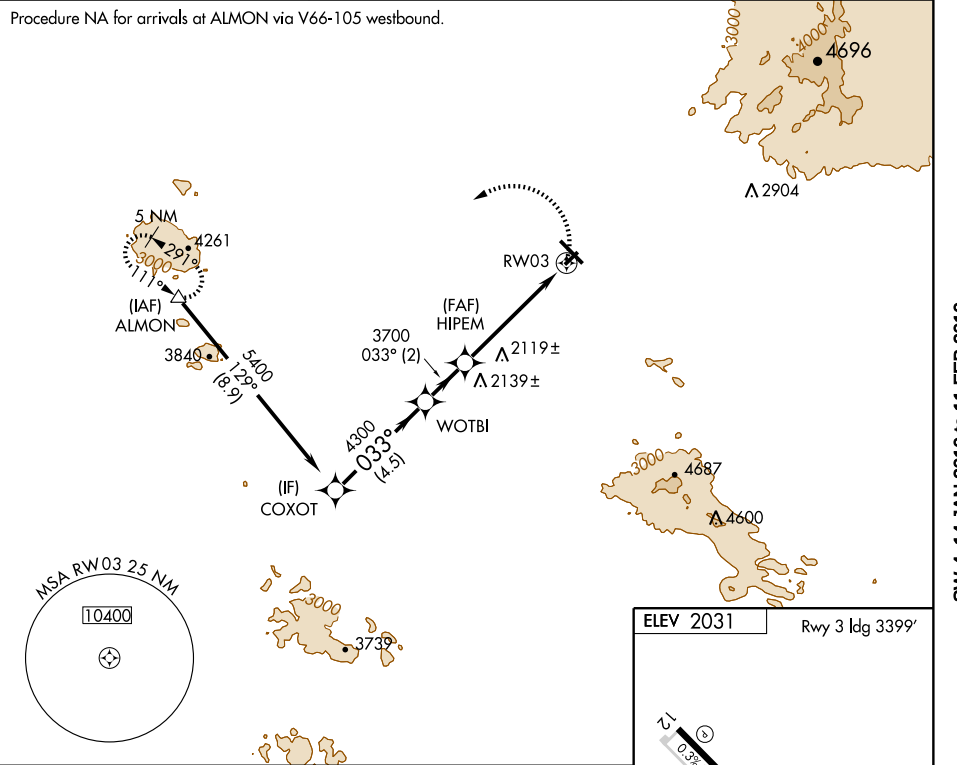
▼

▲ NA

If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.
DME/DME RNP-0.3 NA.
VDP NA when using Ryan Field altimeter setting.

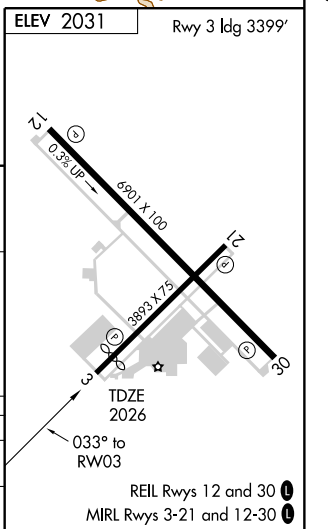
MISSED APPROACH: Climbing left turn to 6000 direct ALMON and hold, continue climb-in-hold to 6000.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF)
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VGSI and descent angles not coincident.

	COXOT	WOTBI	HIPEM		6000	ALMON
	5400	4300	3700	1.3 NM to RWY 03		
Procedure Turn NA			3.00° TCH 35			
	4.5 NM	2 NM	3.8 NM	1.3 NM		
CATEGORY	A	B	C	D		
LNAV MDA	2480-1	454 (500-1)	2480-1¼ 454 (500-1¼)	NA		
CIRCLING	2480-1 449 (500-1)	2500-1 469 (500-1)	2580-1½ 549 (600-1½)	NA		



SW-4, 14 JAN 2010 to 11 FEB 2010

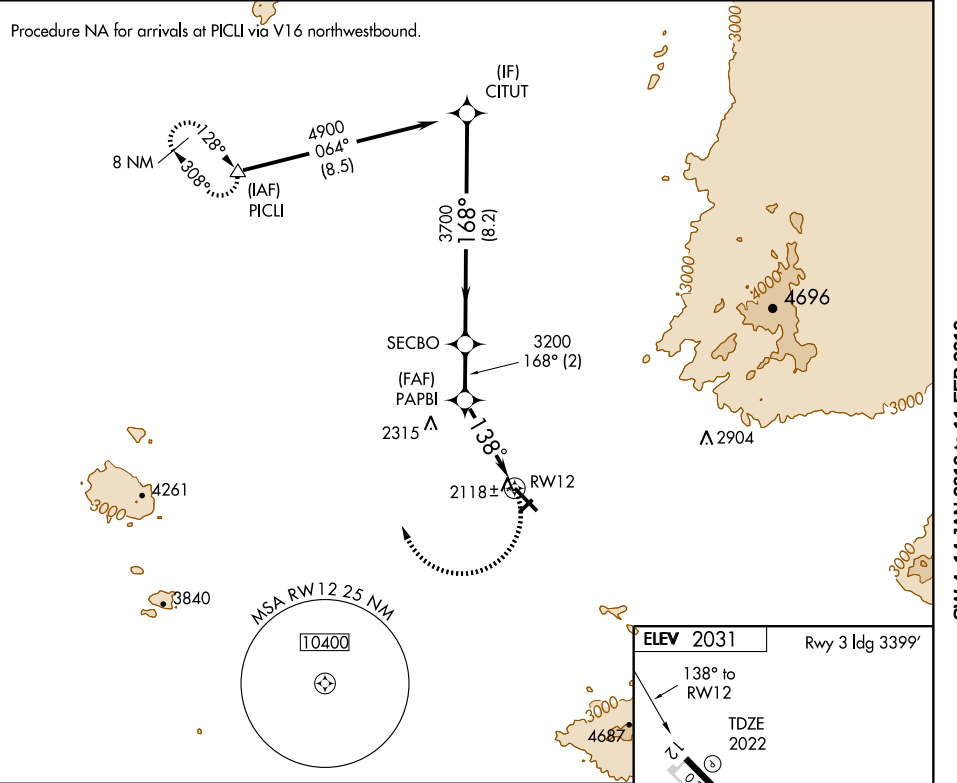
▼

▲ NA

If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.
DME/DME RNP-0.3 NA.
VDP NA when using Ryan Field altimeter setting.

MISSED APPROACH: Climbing right turn to 6000
direct PICLI and hold, continue climb-in-hold to 6000.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF)
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CITUT

4900

Procedure Turn NA

SECBO

3700

PAPBI

3200

6000

PICLI

168°

138°

1.2 NM to RW12

3.00° TCH 44

8.2 NM

2 NM

2.4 NM

1.2 NM

CATEGORY	A	B	C	D
LNAV MDA	2440-1	418 (500-1)	2440-1½ 418 (500-1½)	NA
CIRCLING	2440-1 409 (500-1)	2500-1 469 (500-1)	2580-1½ 549 (600-1½)	NA

ELEV 2031

Rwy 3 Idg 3399'

138° to RW12

TDZE 2022

0.3% UP

6901 X 100

3893 X 75

30

12

REIL Rwy 12 and 30

MIRL Rwy 3-21 and 12-30

SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS 199°	Rwy Idg TDZE Apt Elev	3893 2026 2031
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RNAV (GPS) RWY 21
TUCSON/MARANA RGNL (AVQ)

T	If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.
A NA	DME/DME RNP-0.3 NA.

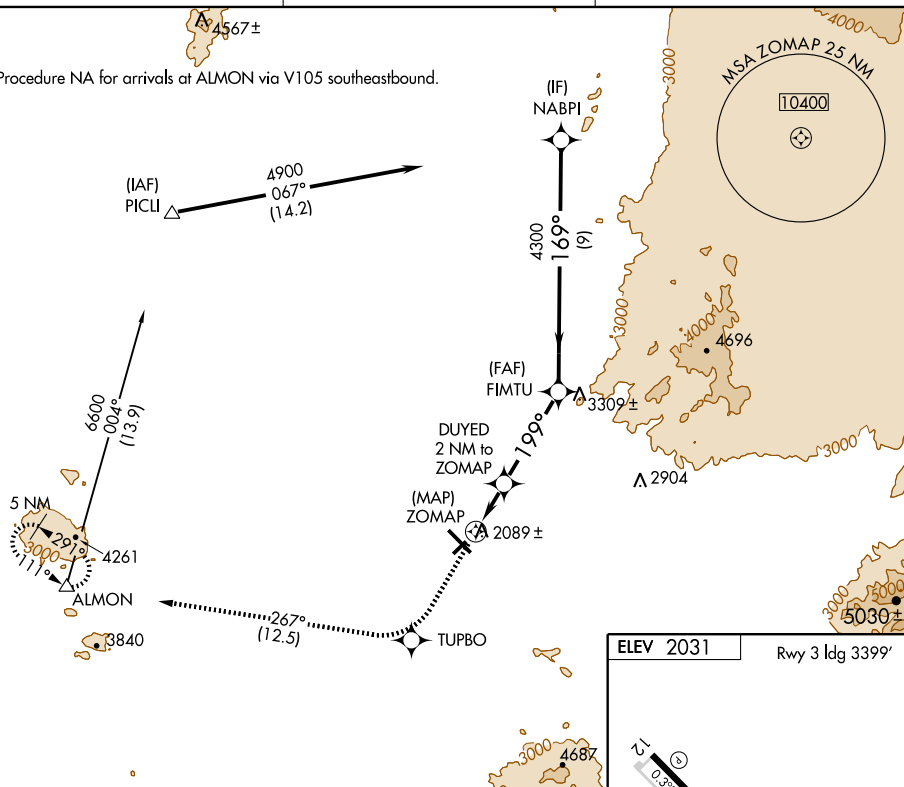
MISSED APPROACH: Climb to 6000 direct TUPBO and via 267° track to ALMON and hold, continue climb-in-hold to 6000.

AWOS-3
118.375

TUCSON APP CON
119.4 318.1

UNICOM
123.0 (CTAF) **L**

Procedure NA for arrivals at ALMON via V105 southeastbound.



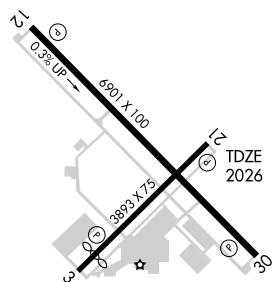
SW-4. 14 JAN 2010 to 11 FEB 2010

6000 ↑	TUPBO 	267° track	ALMON △	VGSI and descent angles not coincident. FIMTU	NABPI
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Figure 1: Sample flight profile. The diagram illustrates a flight path with various segments and altitudes. Key points include ZOMAP, DUYED 2 NM to ZOMAP, and TCH 40. Angles of 3.35° and 169° are indicated. Altitudes 2940, 4300, and 4900 are marked. A scale bar shows 0.5, 2 NM, 3.8 NM, and 9 NM. A note indicates 'Procedure Turn NA'.

CATEGORY	A	B	C	D
INAV MDA	2640-1	614 (700-1)	2640-1 ³⁴ 614 (700-1 ³⁴)	NA
CIRCLING	2640-1	609 (700-1)	2640-1 ³⁴ 609 (700-1 ³⁴)	NA

ELEV 2031	Rwy 3 Idg 3399'
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REIL Rwys 12 and 30 **L**
MIRL Rwys 3-21 and 12-30 **L**

AIRPORT DIAGRAM

AFD-429 [USAF]

TUCSON, ARIZONA

ATIS ★
270.1
DAVIS-MONTHAN TOWER
118.85 253.5
GND CON
121.8 275.8
CLNC DEL
121.8 275.8

32°12'N

110°54'W

ORDNANCE
LOADING
AREA
4000 x 300

110°53'W

110°52'W

JULY 2005
ANNUAL RATE OF CHANGE
0.1° W



ELEV
2605

ELEV
2620

D

C

32°11'N

1000 x 200

BAK-12

ELEV
2589

BAK-12

126.4°

0.8% UP

13,643 x 200

ELEV
2620

★ 2755

BASE OPS
FIRE STATION

ELEV
2640

ELEV
2660

32°10'N

CONTROL
TOWER

▲

2856

A3

A

A4

A5

306.4°

BAK-12

BAK-12

ELEV
2700

ELEV
2720

A7

1000 x 200

32°09'N

RWY 12-30
PCN 75 R/C/W/T

FIELD
ELEV
2704

30

AIRPORT DIAGRAM

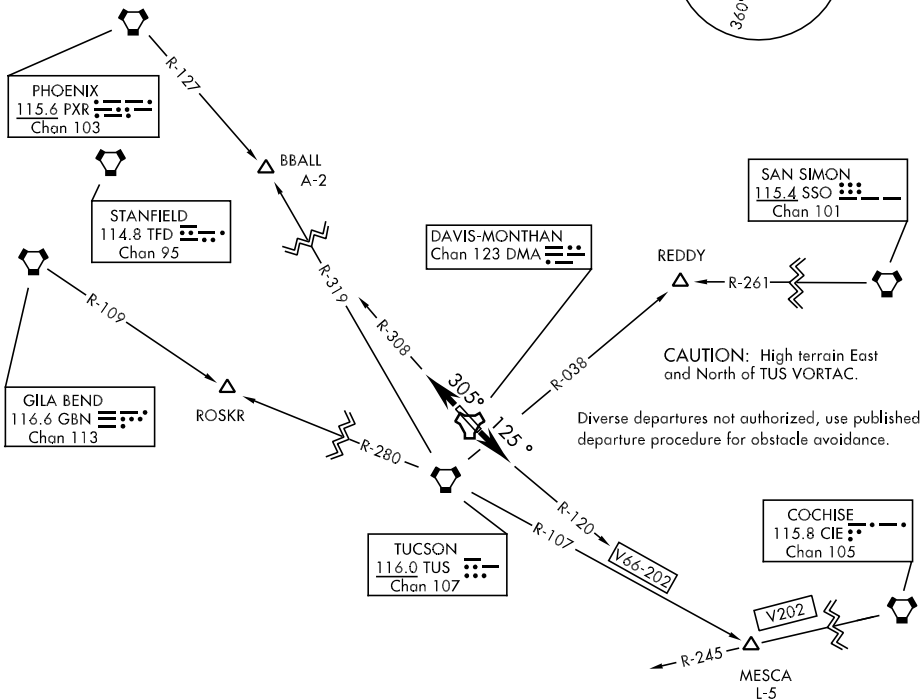
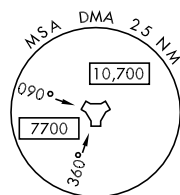
TUCSON, ARIZONA

SW-4, 14 JAN 2010 to 11 FEB 2010

ATIS ★ 270.1
CLNC DEL
121.8 275.8
GND CON
121.8 275.8
DAVIS-MONTHAN TOWER
118.85 253.5
TUCSON DEP CON
125.1 269.55
ALBUQUERQUE CENTER
127.95 351.8

SHL-429 [USAF]

RADAR AND DME REQUIRED



EMERG SAFE ALT 100NM 17,200

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 12: Climb on track 125°, intercept DMA R-120 for vectors to assigned fix or route. Maintain 17,000 or assigned lower altitude. Expect clearance to filed altitude 10 minutes after departure.

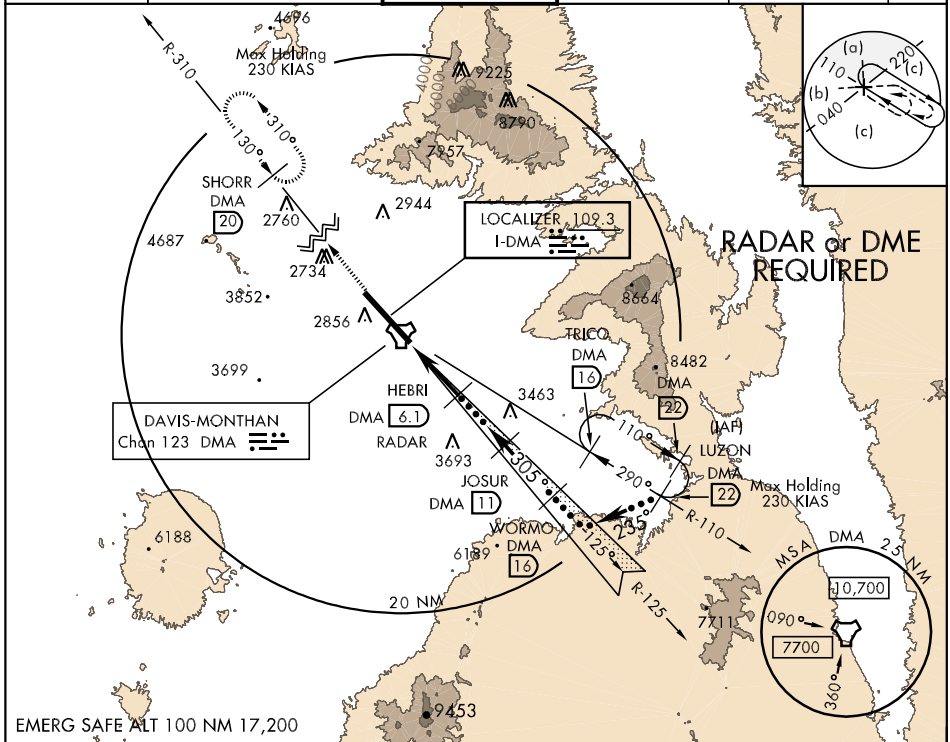
TAKE-OFF RWY 30: Climb on track 305°, intercept DMA R-308 for vectors to assigned fix or route. Maintain 17,000 or assigned lower altitude. Expect clearance to filed altitude 10 minutes after departure.

LOST COM: Immediately climb to minimum safe altitude or last ATC assigned altitude, whichever is higher. Proceed to next assigned NAVAID or return to appropriate IAF for Davis-Monthan AFB active runway.

LOC I-DMA 109.3	APCH CRS 305°	Rwy Idg 13,643 TDZE 2704 Arprt Elev 2704	JAL-429 [USAF]	DAVIS-MONTHAN AFB (KDMA)
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▽ * When ALS inop, increase vis $\frac{1}{4}$ mile. ** When ALS inop, increase vis $\frac{1}{2}$ mile. *** Circling not authorized S of Rwy 12-30.	ALSF-1 	MISSED APPROACH: Climb to 6600 out DMA R-310 to 20 DME and hold.
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ATIS★ 270.1	TUCSON APP CON 119.4 318.1 (066° - 274°) 125.1 269.55 (275° - 065°)	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
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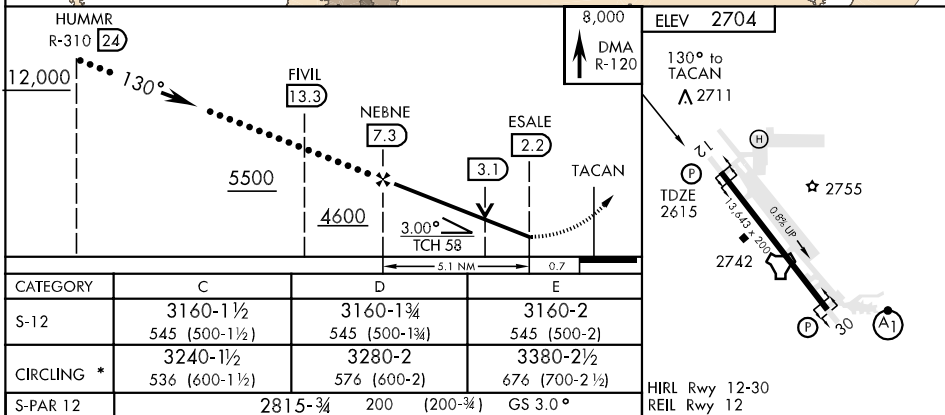
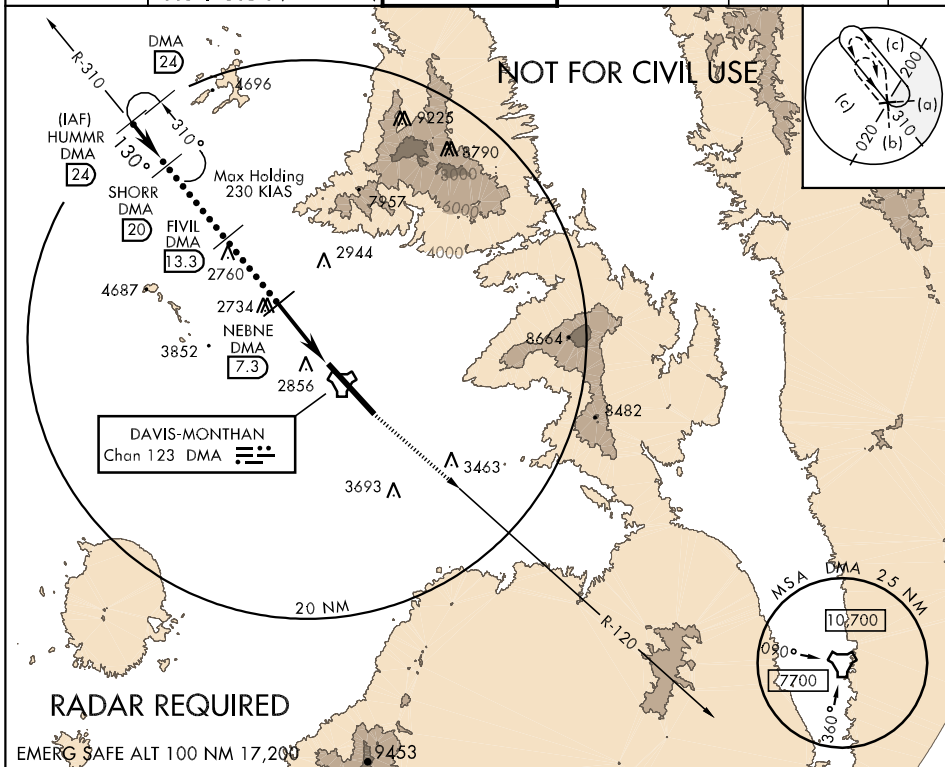


6600 SHORR DMA R-310 (20)	Intcp ILLZ WORMO (16)	LUZON R-110 (22)	ELEV 2704 HIRL Rwy 12-30 REIL Rwy 12
TACAN WALRA (1.2) HEBRI (6.1) /RADAR 4490	JOSUR (11) 5900	7300 GS 3.00° TCH 59°	13,000 2711 2742 2755 2770 2790 2810 2830 2850 2870 2890 2910 2930 2950 2970 2990 3010 3030 3050 3070 3090 3110 3130 3150 3170 3190 3210 3230 3250 3270 3290 3310 3330 3350 3370 3390 3410 3430 3450 3470 3490 3510 3530 3550 3570 3590 3610 3630 3650 3670 3690 3710 3730 3750 3770 3790 3810 3830 3850 3870 3890 3910 3930 3950 3970 3990 4010 4030 4050 4070 4090 4110 4130 4150 4170 4190 4210 4230 4250 4270 4290 4310 4330 4350 4370 4390 4410 4430 4450 4470 4490 4510 4530 4550 4570 4590 4610 4630 4650 4670 4690 4710 4730 4750 4770 4790 4810 4830 4850 4870 4890 4910 4930 4950 4970 4990 5010 5030 5050 5070 5090 5110 5130 5150 5170 5190 5210 5230 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5450 5470 5490 5510 5530 5550 5570 5590 5610 5630 5650 5670 5690 5710 5730 5750 5770 5790 5810 5830 5850 5870 5890 5910 5930 5950 5970 5990 6010 6030 6050 6070 6090 6110 6130 6150 6170 6190 6210 6230 6250 6270 6290 6310 6330 6350 6370 6390 6410 6430 6450 6470 6490 6510 6530 6550 6570 6590 6610 6630 6650 6670 6690 6710 6730 6750 6770 6790 6810 6830 6850 6870 6890 6910 6930 6950 6970 6990 7010 7030 7050 7070 7090 7110 7130 7150 7170 7190 7210 7230 7250 7270 7290 7310 7330 7350 7370 7390 7410 7430 7450 7470 7490 7510 7530 7550 7570 7590 7610 7630 7650 7670 7690 7710 7730 7750 7770 7790 7810 7830 7850 7870 7890 7910 7930 7950 7970 7990 8010 8030 8050 8070 8090 8110 8130 8150 8170 8190 8210 8230 8250 8270 8290 8310 8330 8350 8370 8390 8410 8430 8450 8470 8490 8510 8530 8550 8570 8590 8610 8630 8650 8670 8690 8710 8730 8750 8770 8790 8810 8830 8850 8870 8890 8910 8930 8950 8970 8990 9010 9030 9050 9070 9090 9110 9130 9150 9170 9190 9210 9230 9250 9270 9290 9310 9330 9350 9370 9390 9410 9430 9450 9470 9490 9510 9530 9550 9570 9590 9610 9630 9650 9670 9690 9710 9730 9750 9770 9790 9810 9830 9850 9870 9890 9910 9930 9950 9970 9990
CATEGORY C	D	E	FAF to MAP 4.9 NM
S-ILS 30 * 2904-1/2	200	(200-1/2)	305° 5.3 NM from FAF
S-LOC 30 ** 3340-1 1/4 636 (700-1 1/4)	3340-1 1/2 636 (700-1 1/2)	3340-1 3/4 636 (700-1 3/4)	305° 5.3 NM from FAF
CIRCLING *** 3340-1 3/4 636 (700-1 3/4)	3340-2 636 (700-2)	3380-2 1/2 676 (700-2 1/2)	305° 5.3 NM from FAF
S-PAR 30 * 2904-1/2	200	(200-1/2)	GS 3.0 °

TACAN DMA Chan 123	APCH CRS 130°	Rwy Idg 13,643 TDZE 2615 Arpt Elev 2704	JAL-429 [USAF]	DAVIS-MONTHAN AFB (KDMA)
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T * Circling not authorized S of Rwy 12-30.	MISSED APPROACH: Track outbound on DMA R-120 to 8000 expect RADAR vectors.
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ATIS ★ 270.1	TUCSON APP CON 125.1 269.55 (090° - 285°) 119.4 318.1 (275° - 089°)	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
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TACAN DMA Chan 123	APCH CRS 299°	Rwy Idg 13,643 TDZE 2704 Arpt Elev 2704
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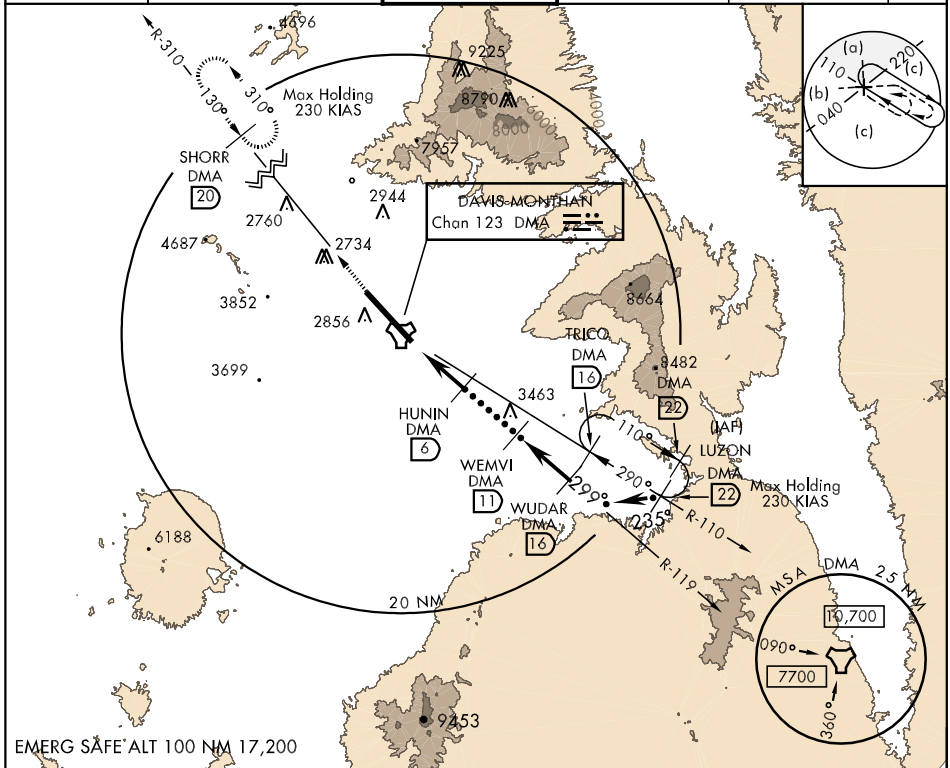
JAL-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)

▽ * When ALS inop, increase vis $\frac{1}{2}$ mile. ** Circling not authorized S of Rwy 12-30. *** When ALS inop, increase vis $\frac{1}{4}$ mile.


MISSED APPROACH: Climb to 6600 out DMA R-310 to 20 DME
and hold.

ATIS★ 270.1	TUCSON APP CON 119.4 318.1 (066°- 274°) 125.1 269.55 (275°- 065°)	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
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EMERG SAFE ALT 100 NM 17,200

6600 R-310	SHORR DMA 20	WUDAR 16	WEMVI 11	LUZON 22	ELEV 2704
TACAN	ZUSTI 1.2	HUNIN 6	7300	13,000	
	48 NM	5900	7300		
CATEGORY	C	D	E		
S-30 *	3340-1¼ 636 (700-1¼)	3340-1½ 636 (700-1½)	3340-1¾ 636 (700-1¾)		
CIRCLING **	3340-1¾ 636 (700-1¾)	3340-2 636 (700-2)	3380-2½ 676 (700-2½)		
S-PAR 30 ***	2904-½	200	(200-½)	GS 3.0°	

TUCSON, ARIZONA

32°10'N-110°53'W

DAVIS-MONTHAN AFB (KDMA)

TACAN DMA Chan 123	APCH CRS 130°	Rwy Idg 13,643 TDZE 2615 Arprt Elev 2704
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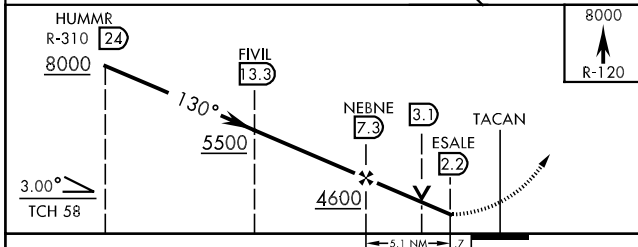
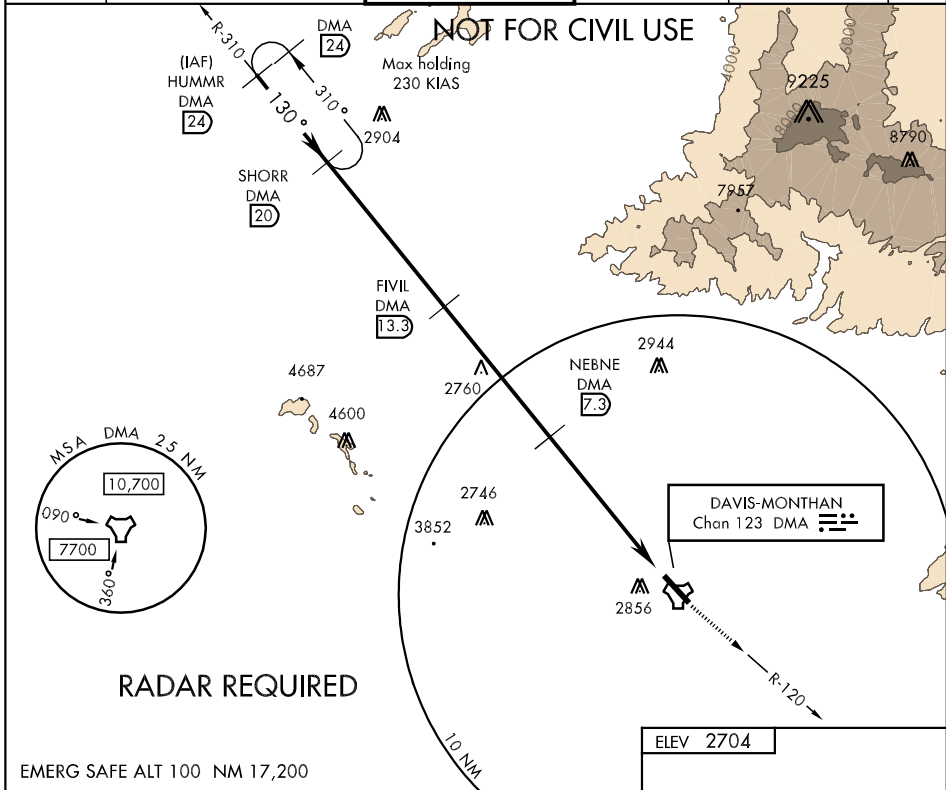
AL-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)

▼ ** Circling not authorized S of Rwy 12-30.

MISSED APPROACH: Track outbound on DMA R-120 to 8000 MSL expect RADAR vectors.

ATIS★ 270.1	TUCSON APP CON 090°-285° 125.1 269.55 286°-089° 119.4 318.1	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
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CATEGORY	A	B	C	D	E
S-12	3160-1 545 (500-1)	3160-1½ 545 (500-1½)	3160-1¾ 545 (500-1¾)	3160-2 545 (500-2)	3160-2 545 (500-2)
CIRCLING**	3220-1 516 (600-1)	3240-1½ 536 (600-1½)	3280-2 576 (600-2)	3380-2½ 676 (700-2½)	3380-2½ 676 (700-2½)
S-PAR 12	2815-¾	200 (200-¾)	GS 3.0°		

TUCSON, ARIZONA

32°10'N-110°53'W

DAVIS-MONTHAN AFB (KDMA)

TACAN DMA Chan 123	APCH CRS 299°	Rwy Idg 13,643 TDZE 2704 Arpt Elev 2704
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AL-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)



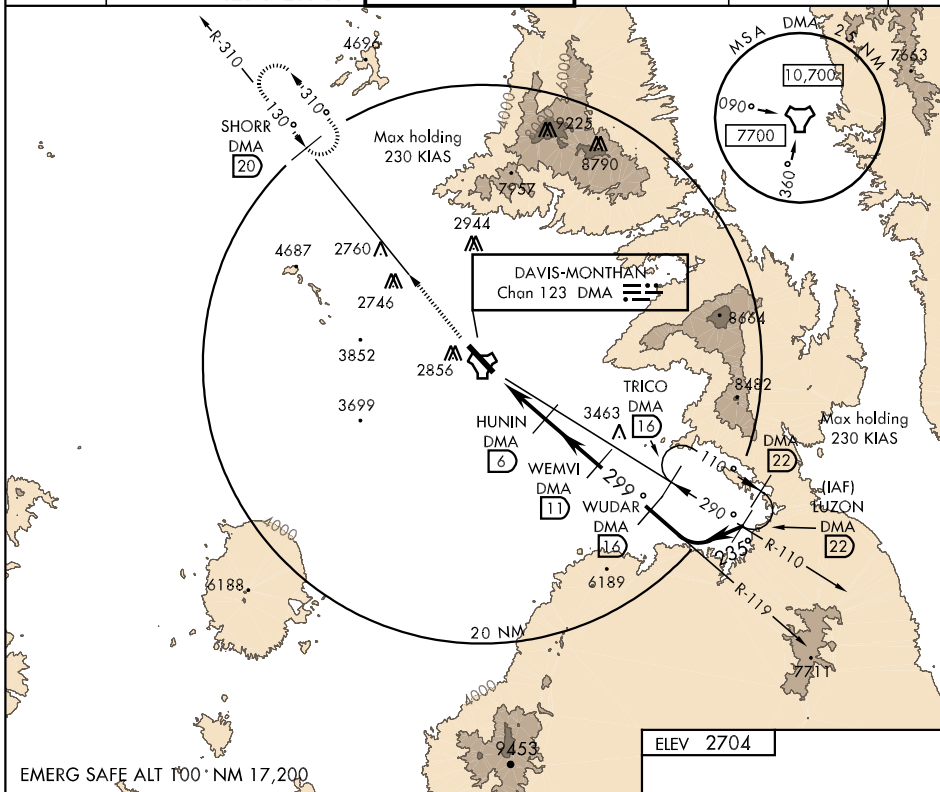
- * When ALS inop, increase vis $\frac{1}{2}$ mile.
- ** Circling not authorized S of Rwy 12-30.
- *** When ALS inop, increase vis $\frac{1}{4}$ mile.

ALSF-1

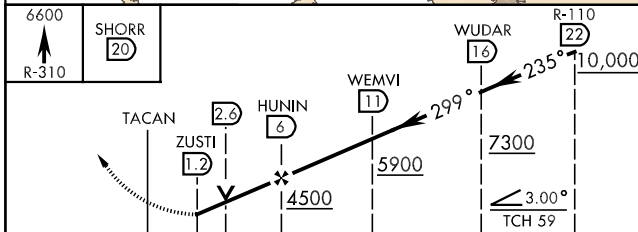


MISSED APPROACH: Climb to 6600 out DMA R-310 to 20 DME and hold.

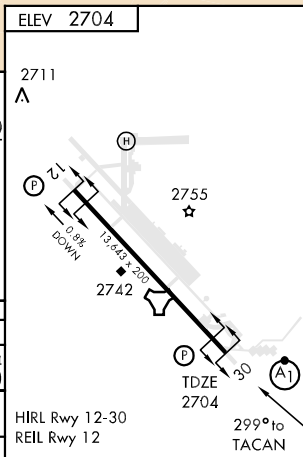
ATIS★ 270.1	TUCSON APP CON 066°-274° 119.4 318.1 275°-065° 125.1 269.55	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
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EMERG SAFE ALT 100 NM 17,200



CATEGORY	A	B	C	D	E
S-30 *	3340-½ 636 (700-½)		3340-1¼ 636 (700-1¼)	3340-1½ 636 (700-1½)	3340-1¾ 636 (700-1¾)
CIRCLING **	3340-1 636 (700-1)		3340-1¾ 636 (700-1¾)	3340-2 636 (700-2)	3380-2 ½ 676 (700-2½)
S-PAR 30 ***		2904-½ 200 (200-½)			GS 3.0 *



TUCSON, ARIZONA

32°10'N-110°53'W

DAVIS-MONTHAN AFB (KDMA)

Orig 07298

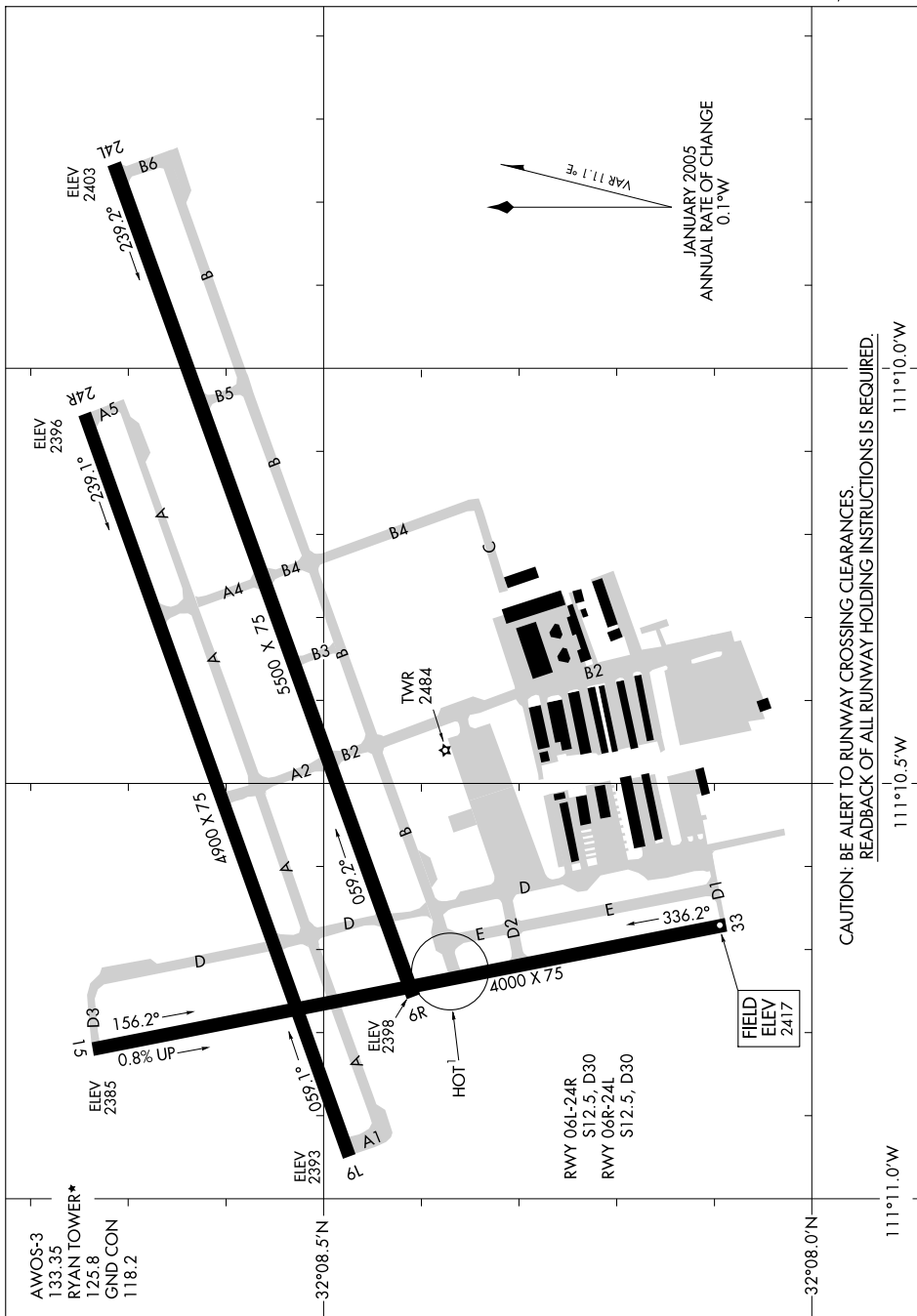
SW-4, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-6513 (FAA)

TUCSON/RYAN FIELD (RYN)

TUCSON, ARIZONA



SW-4, 14 JAN 2010 to 11 FEB 2010

LOC I-FI	APP CRS	Rwy Idg	5500
111.1	058°	TDZE	2402
		Apt Elev	2417

ILS or LOC RWY 6R

TUCSON/RYAN FIELD (RYN)



NA

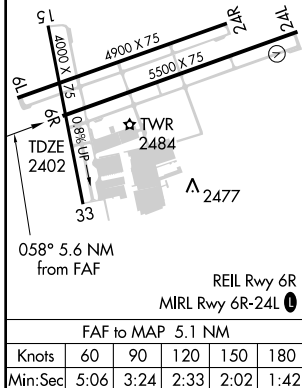
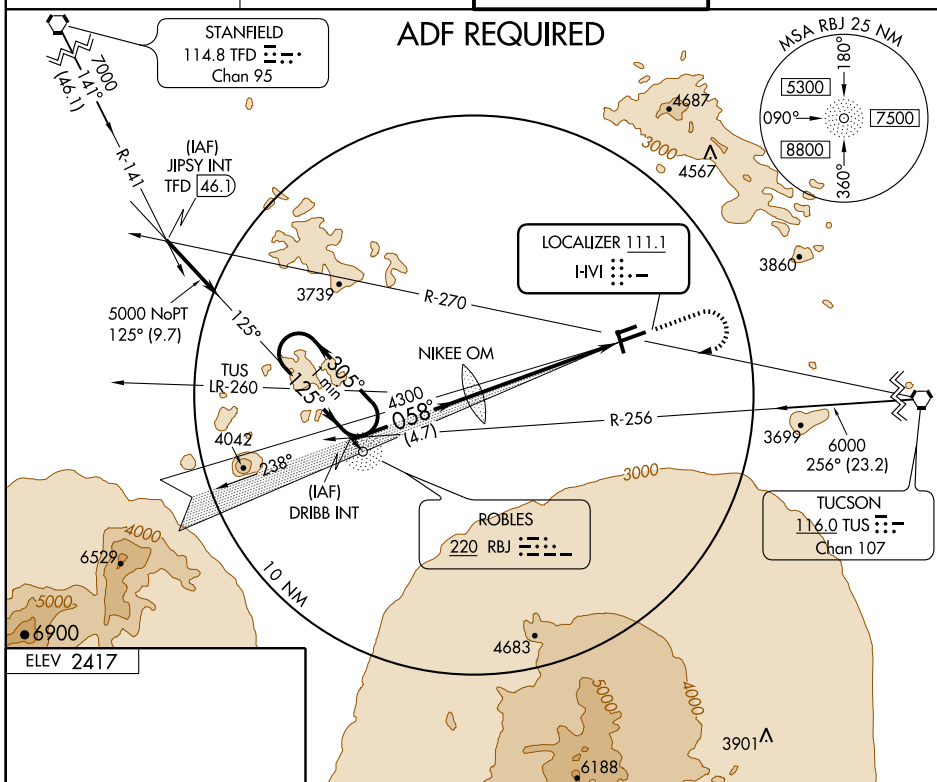
MISSED APPROACH: Climb to 3000, then climbing right turn to 5000 via direct RBJ NDB and 305° bearing RBJ to DRIBB Int and hold.

AWOS-3
133.35

TUCSON APP CON
128.5 395.9

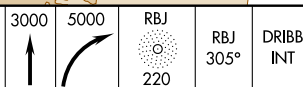
RYAN TOWER ★
125.8 (CTAF)

GND CON
118.2



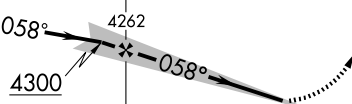
One Minute
Holding Pattern

DRIBB
INT



5000 ← 305°
125° → 058°
GS 3.00°
TCH 50

NIKEE OM



CATEGORY	A	B	C	D
S-ILS 6R	2652-1 250 (300-1)			
S-LOC 6R	2900-1 498 (500-1)	2900-1¼ 498 (500-1¼)	2900-1½ 498 (500-1½)	2980-2 563 (600-2)
CIRCLING	2900-1 483 (500-1)	2900-1½ 483 (500-1½)	2980-2 563 (600-2)	

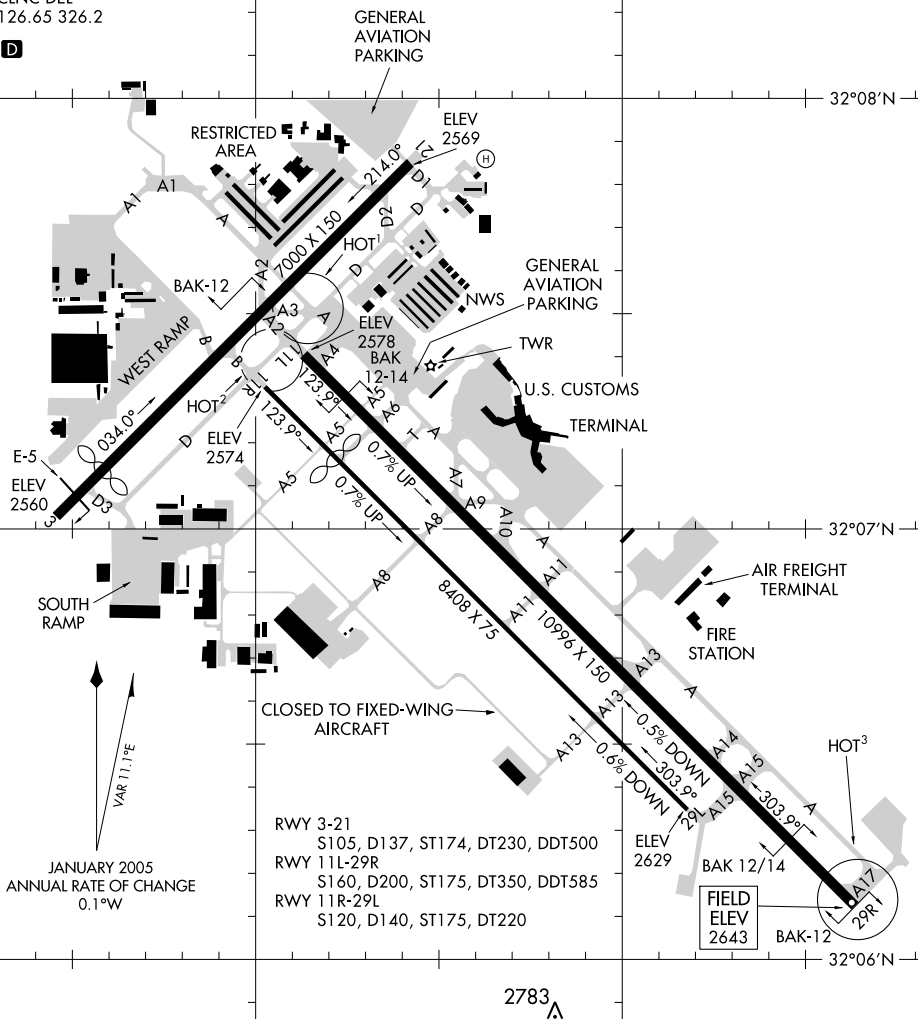
AIRPORT DIAGRAM

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

ATIS
123.8 279.65
TUCSON TOWER
118.3 257.8
GND CON
124.4 348.6
CLNC DEL
126.65 326.2

D



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ALL AIRCRAFT USE UPPER ANTENNA UNTIL AIRBORNE

BURRO TWO DEPARTURE (RNAV)

SL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

ATIS
123.8 279.65
CLNC DEL
126.65 326.2
GND CON
124.4 348.6
TUCSON TOWER
118.3 257.8
TUCSON DEP CON
125.1 269.55

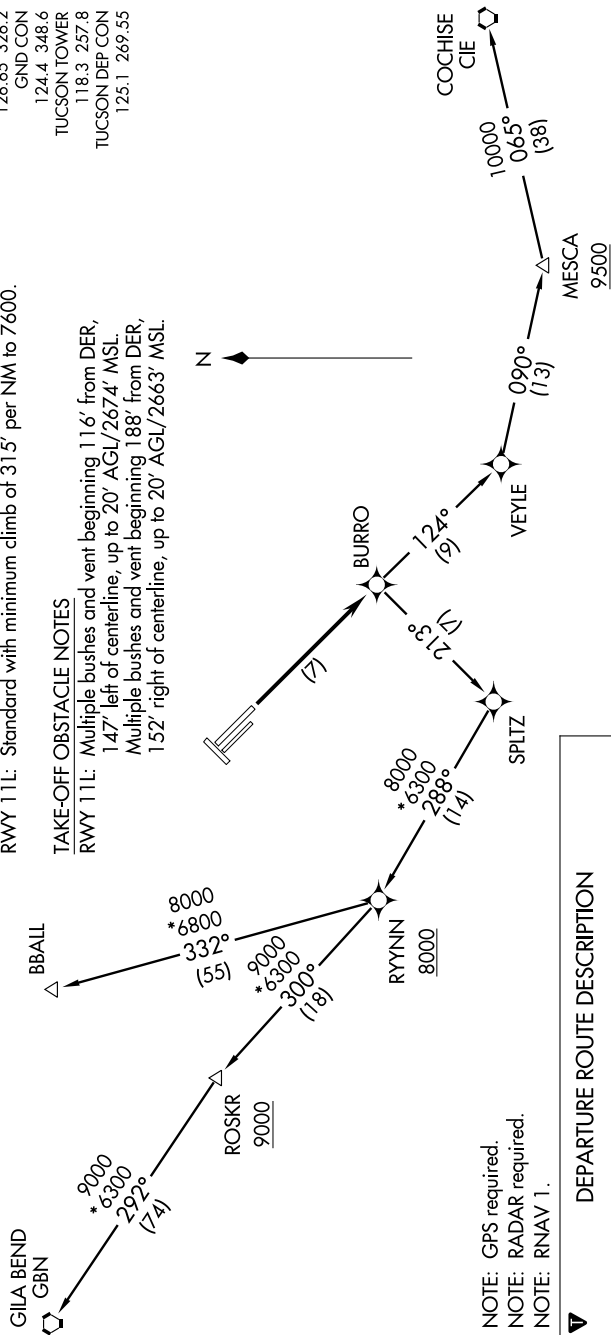
TAKE-OFF MINIMUMS

RWYS 11R, 21, 29L, 29R, 3: NA-(ATC).

RWY 11L: Standard with minimum climb of 31.5' per NM to 7600.

TAKE-OFF OBSTACLE NOTES

RWY 11L: Multiple bushes and vent beginning 116' from DER, 147' left of centerline, up to 20' AGL/2674' MSL.
Multiple bushes and vent beginning 188' from DER, 152' right of centerline, up to 20' AGL/2663' MSL.



NOTE: GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.

▼ DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11L: Climb direct BURRO, thence....

...via (transition) climb and maintain 17000. Expect filed altitude 10 minutes after departure.

BBALL TRANSITION (BURRO2.BBALL)

COCHISE TRANSITION (BURRO2.CIE)

GILA BEND TRANSITION (BURRO2.GBN)

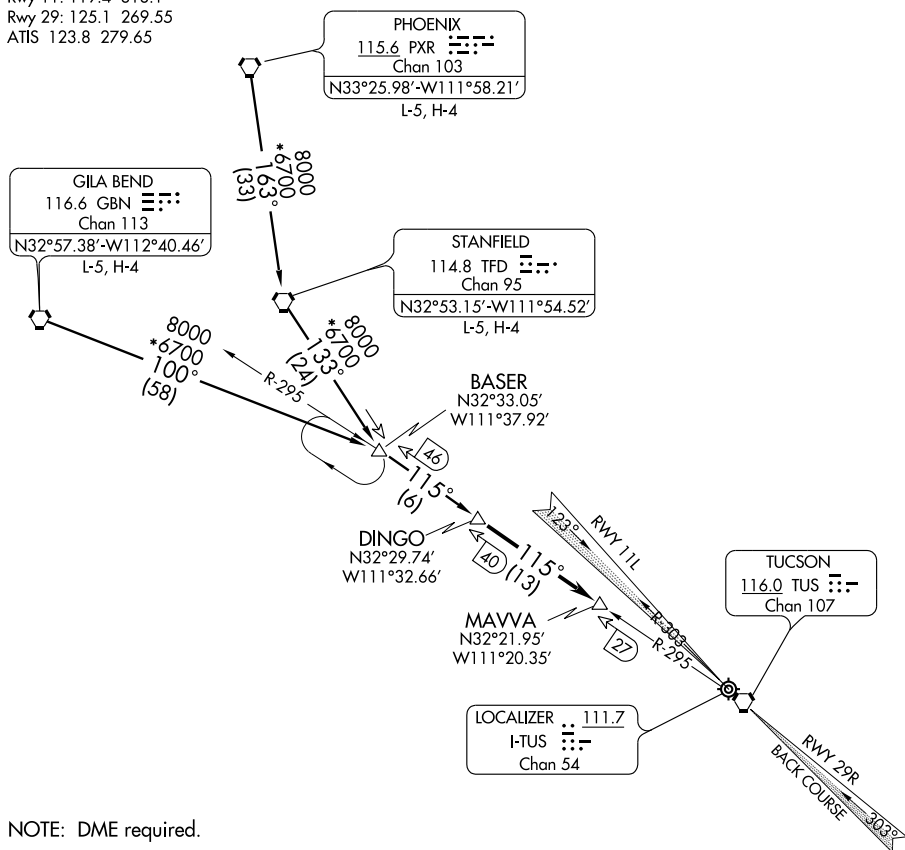
NOTE: Chart not to scale.

TUCSON APP CON

Rwy 11: 119.4 318.1

Rwy 29: 125.1 269.55

ATIS 123.8 279.65



NOTE: DME required.

NOTE: Chart not to scale.

GILA BEND TRANSITION (GBN.DINGO5): From over GBN VORTAC via GBN R-100 to BASER INT, then via TUS R-295 to DINGO INT. Thence....

PHOENIX TRANSITION (PXR.DINGO5): From over PXR VORTAC via PXR R-163 to TFD VORTAC. Then via TFD R-133 to BASER INT. Then via TUS R-295 to DINGO INT. Thence....

STANFIELD TRANSITION (TFD.DINGO5): From over TFD VORTAC via TFD R-133 to BASER INT. Then via TUS R-295 to DINGO INT. Thence....

....From over DINGO INT via TUS R-295 to MAVVA INT. Thence, for Runway 11L via heading 075° to intercept I-TUS localizer or TUS VORTAC R-303, and expect approach clearance for Rwy 11L. For Runway 29R expect radar vectors to final approach course Runway 29R.

MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 via heading 300° and TUS R-270 to RYN NDB/TUS 12.8 DME and hold.

ELEV 2643	D
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[illegible]

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

LOC/DME I-TUS 111.7 Chan 54	APP CRS 303°	Rwy Idg TDZE Apt Elev 10996 2643
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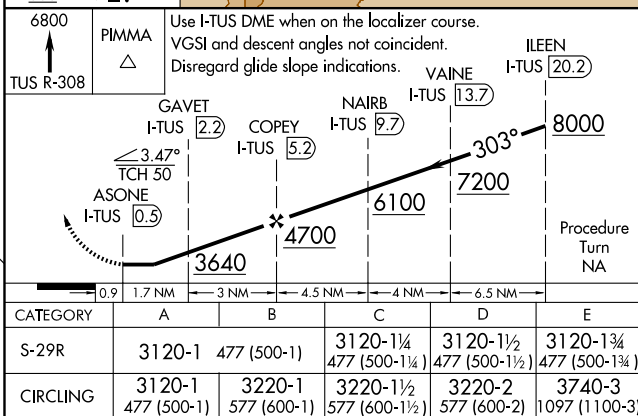
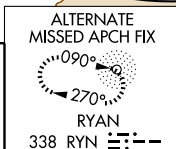
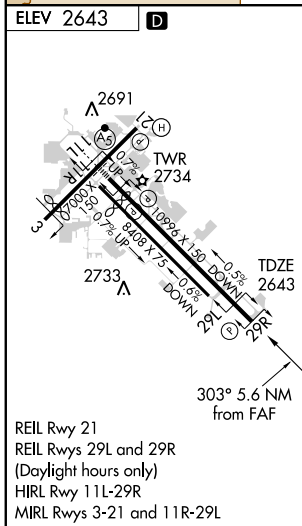
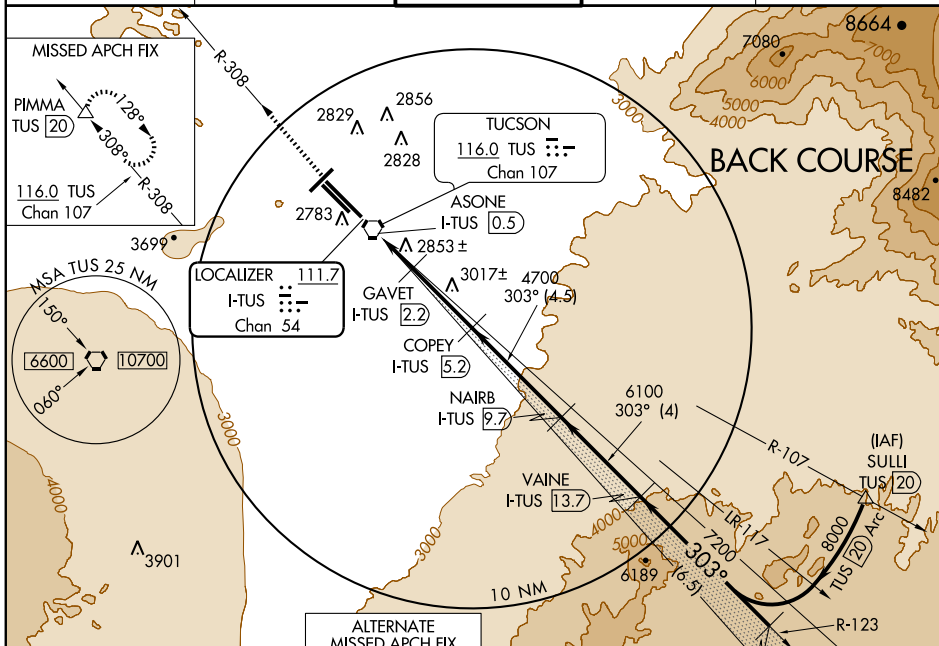
LOC/DME BC RWY 29R

TUCSON INTL (TUS)

▼
▲
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6800 via TUS VORTAC
R-308 to PIMMA/TUS VORTAC 20 DME and hold.

ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
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APP CRS	Rwy Idg	6998
123°	TDZE	2605
	Apt Elev	2643

RNAV (GPS) RWY 11R
TUCSON INTL (TUS)

TUCSON INTL (TUS)

T For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -20°C (-4°F) or above 43°C (111°F).
A NA DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 via 123° course to RUVIE WP then climbing right turn direct RYN NDB and hold.

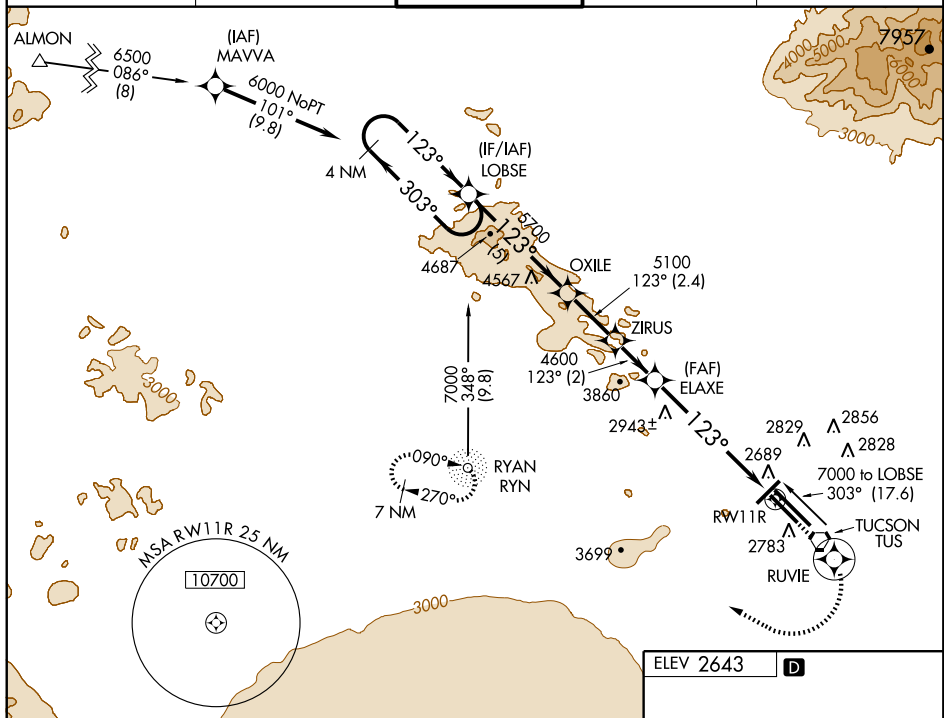
ATIS
123.8 279.65

TUCSON APP CON
119.4 318.1

TUCSON TOWER
118.3 257.8

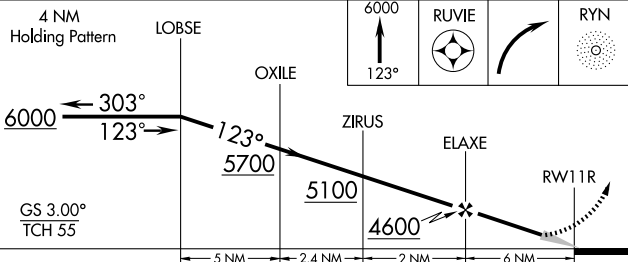
GND CON
124.4 348.6

CLNC DEL
126.65 326.2

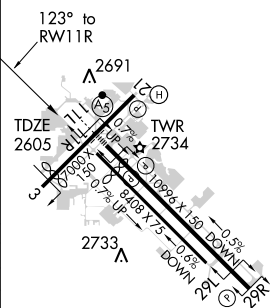


SW-4. 14 JAN 2010 to 11 FEB 2010

ELEV 2643	D
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CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/ VNAV DA	2965-1¼ 360 (400-1¼)			
LNAV MDA	3200-1	595 (600-1)	3200-1½ 595 (600-1½)	3200-1¾ 595 (600-1¾)
CIRCLING	3200-1 557 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)



REIL Rwy 21
REIL Rwys 29L and 29R
(Daylight hours only)
HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L

APP CRS	Rwy Idg	6000
213°	TDZE	2573
	Apt Elev	2643

RNAV (GPS) RWY 21

TUCSON INTL (TUS)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -20°C (-4°F) or above 43°C (111°F).
▲ NA DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 via 213° course to WADSO WP, then via 203° course to LIKLE WP, then climbing right turn direct RYN NDB and hold.

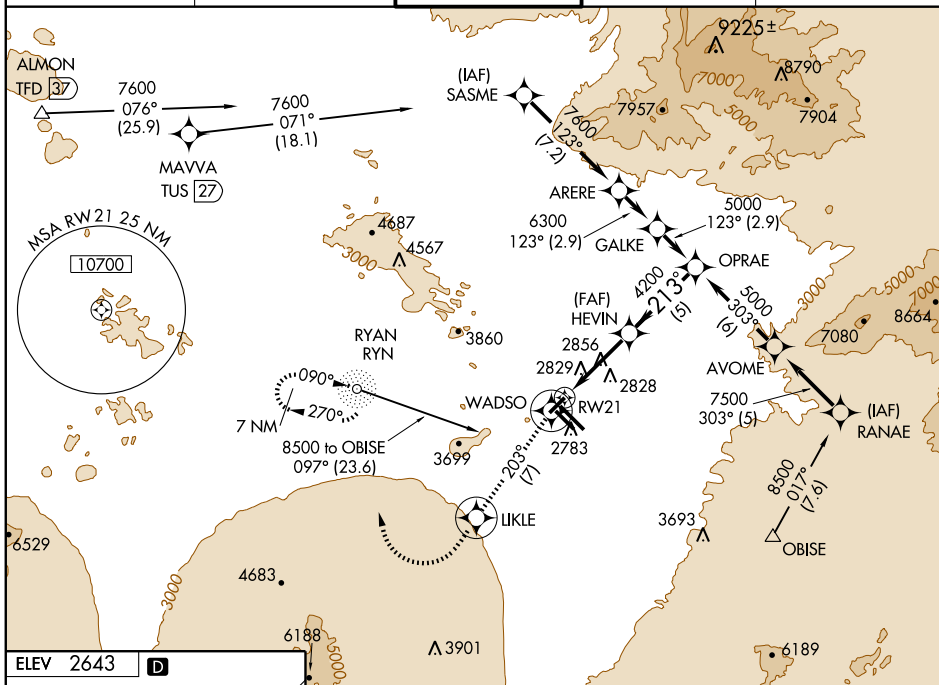
ATIS
123.8 279.65

TUCSON APP CON
119.4 318.1

TUCSON TOWER
118.3 257.8

GND CON
124.4 348.6

CLNC DEL
126.65 326.2

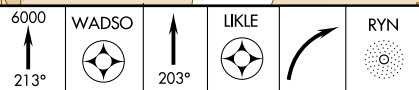


SW-4. 14 JAN 2010 to 11 FEB 2010

ELEV 2643

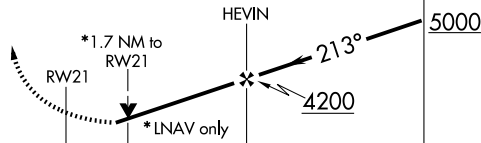
D

213° to
RWY21



Procedure
Turn NA

VGSI and RNAV glidepath not coincident.

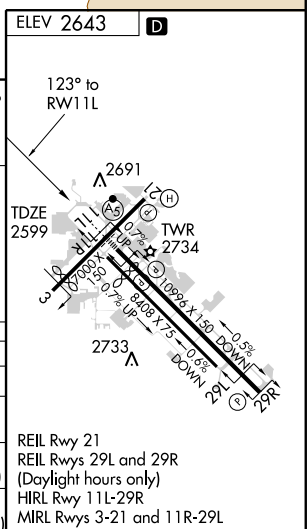
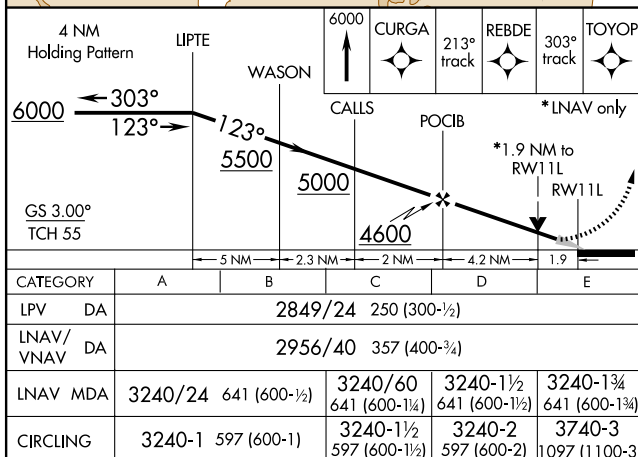
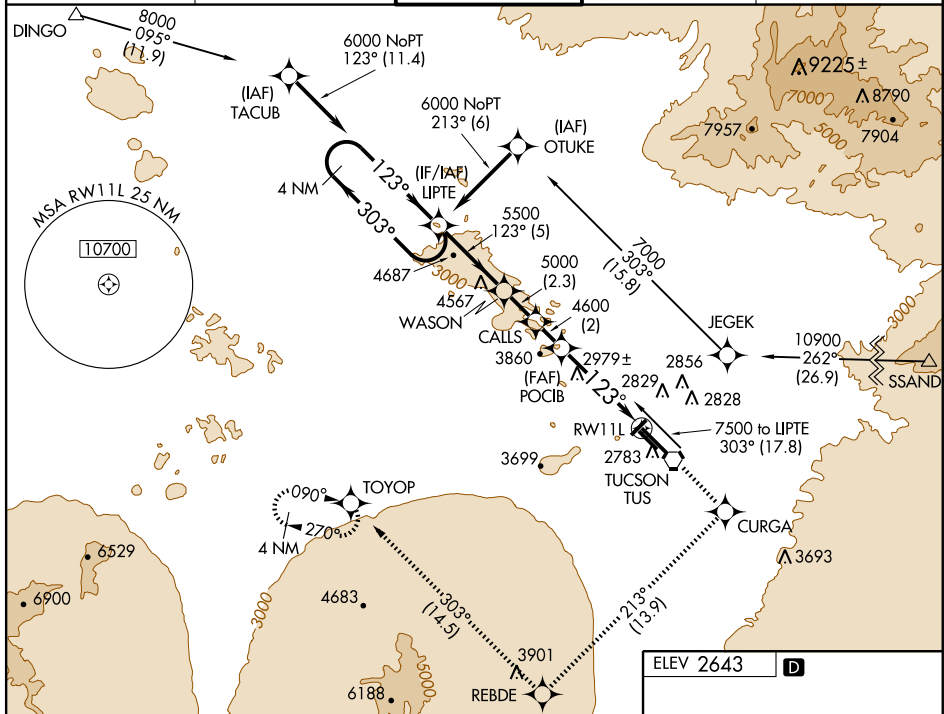


GS 3.00°
TCH 50

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	3141-2 568 (600-2)			
LNAV MDA	3160-1 587 (600-1)	3160-1½ 587 (600-1½)	3160-1¾ 587 (600-1¾)	
CIRCLING	3160-1 517 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)

REIL Rwy 21
REIL Rwy 29L and 29R
(Daylight hours only)
HIRL Rwy 11L-29R
MIRL Rwy 3-21 and 11R-29L

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



WAAS CH 86899 W29A	APP CRS 303°	Rwy Idg 10996 TDZE 2643 Apt Elev 2643
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RNAV (GPS) Z RWY 29R

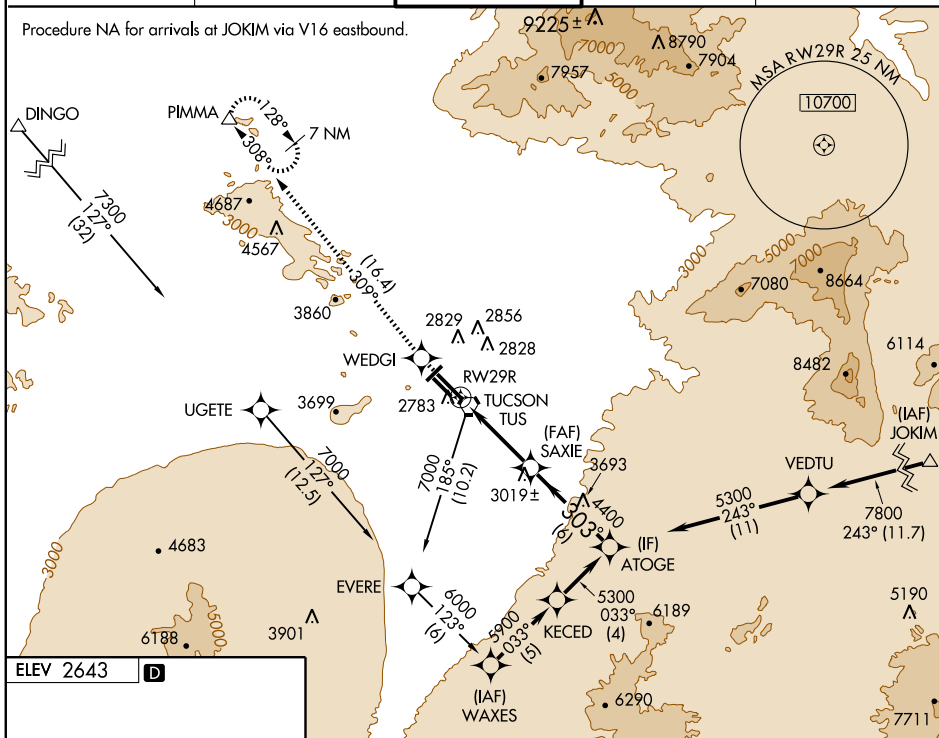
TUCSON INTL (TUS)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
A -20°C (-4°F) or above 43°C (111°F). DME/DME RNP-0.3 NA.
 When VGSI inoperative, procedure NA at night.

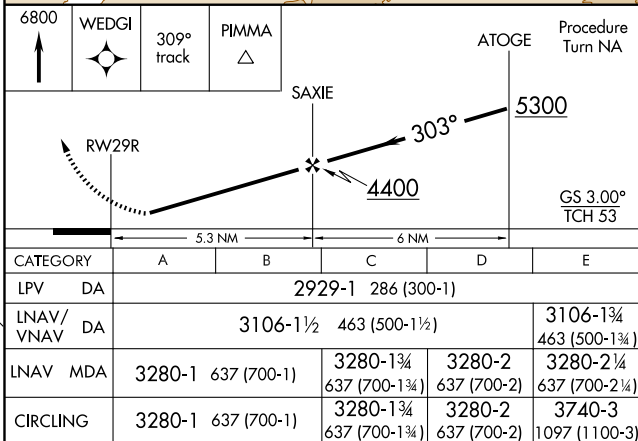
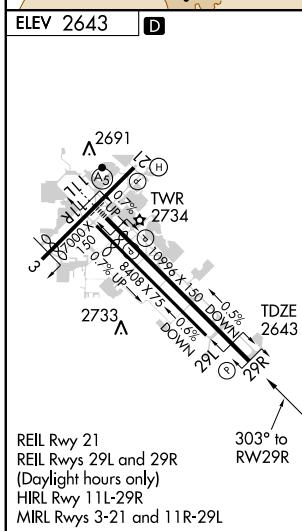
MISSED APPROACH: Climb to 6800 direct WEDGI and 309° track to PIMMA and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2

Procedure NA for arrivals at JOKIM via V16 eastbound.



SW-4. 14 JAN 2010 to 11 FEB 2010



RNAV (RNP) Y RWY 11L

TUCSON INTL (TUS)

APP CRS	Rwy Idg	10996
123°	TDZE	2599
	Apt Elev	2643

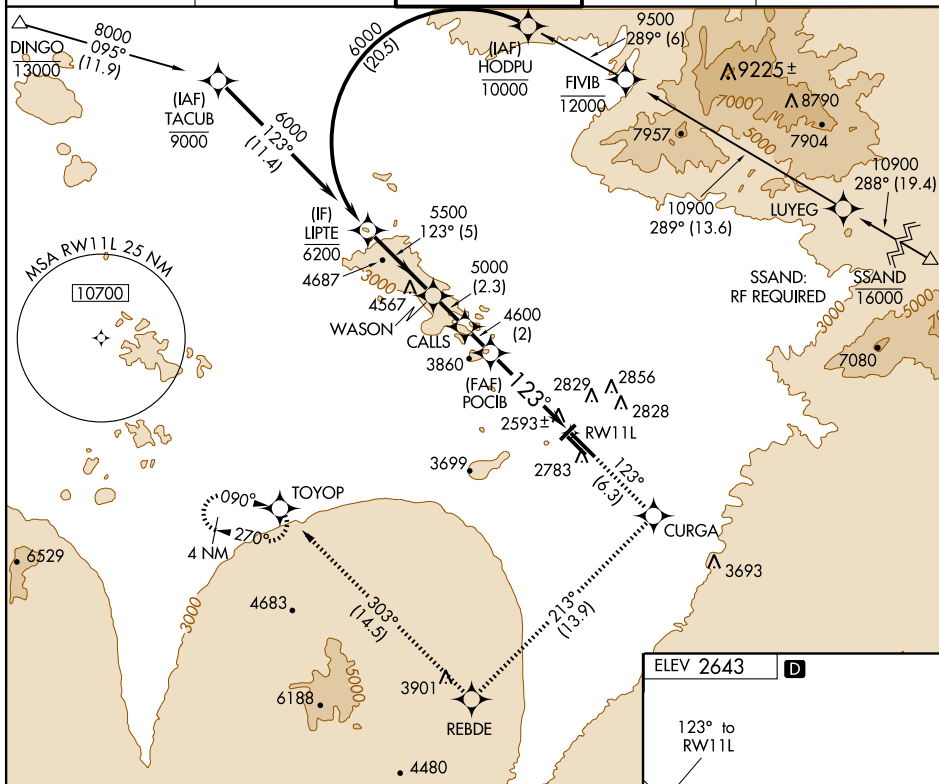
NA
For uncompensated Baro-VNAV systems, procedure NA below -5°C (23°F) or above 43°C (111°F).
For inoperative MALS, increase RNP 0.30 visibility to RVR 6000 all Cats. GPS required.

MALS

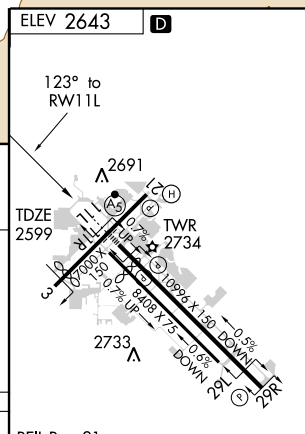


MISSED APPROACH: Climb to 6000 via 123° track to CURGA, 213° track to REBDE, 303° track to TOYOP and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



LIPTE	WASON	CALLS	POCIB	RWY 11L
6000	5500	5000	4600	
Procedure Turn NA				
GP 3.00°				
TCH 55				
5 NM	2.3 NM	2 NM	6.1 NM	
CATEGORY	A	B	C	D
RNP 0.30 DA		2947/40	348 (400-¾)	



REIL Rwy 21
REIL Rws 29L and 29R
(Daylight hours only)
HIRL Rwy 11L-29R
MIRL Rws 3-21 and 11R-29L

APP CRS 303°	Rwy Idg 10996 TDZE 2643 Apt Elev 2643
------------------------	--

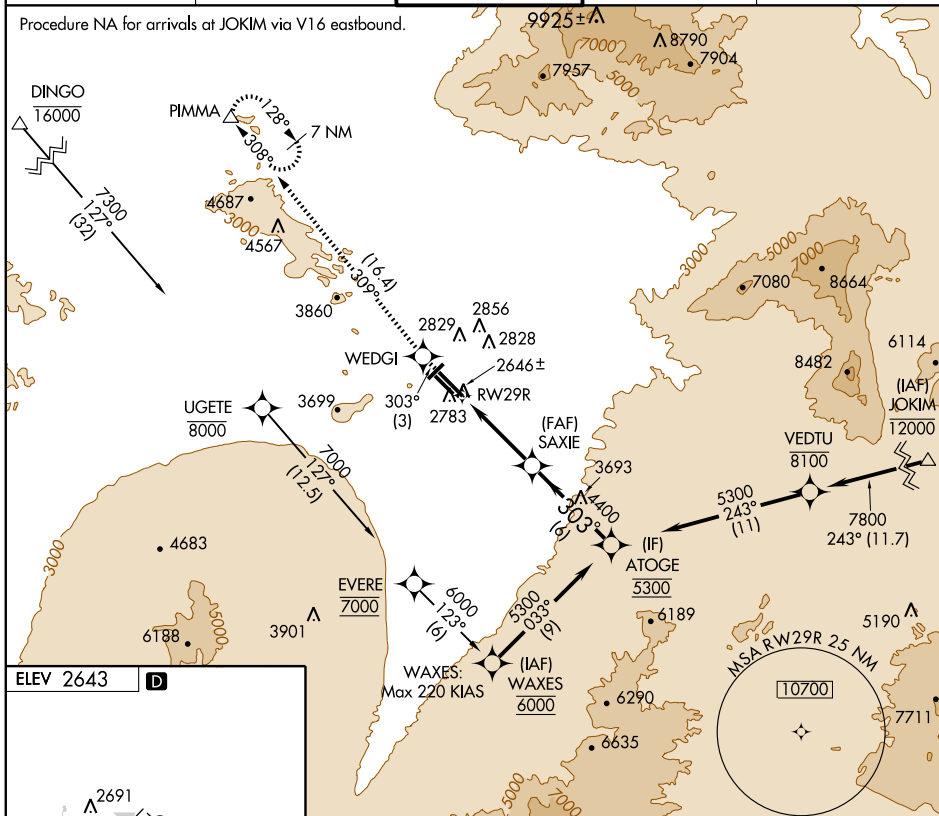
RNAV (RNP) Y RWY 29R
TUCSON INTL (TUS)

T When VGSI inoperative, procedure NA at night. GPS required.
A NA For uncompensated Baro-VNAV systems, procedure NA below -5°C (23°F) or above 43°C (110°F).

MISSED APPROACH: Climb to 6500 via 303° track to WEDGI, 309° track to PIMMA and hold.

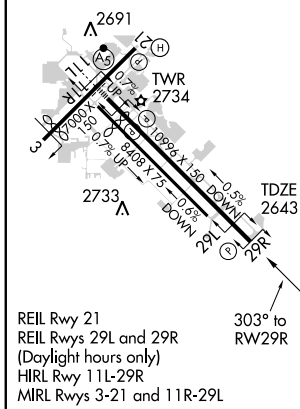
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2

Procedure NA for arrivals at JOKIM via V16 eastbound.



ELEV 2643

D



6500 ↑ 303° track	WEDGI ✦	309° track	PIMMA △	SAXIE 4400 303° 4400 ATOGE 5300 GP 3.00° TCH 53	
RW29R		5.3 NM		6 NM	
CATEGORY	A	B	C	D	
RNP 0.30 DA	2989-1¼ 346 (400-1¼)				
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED					

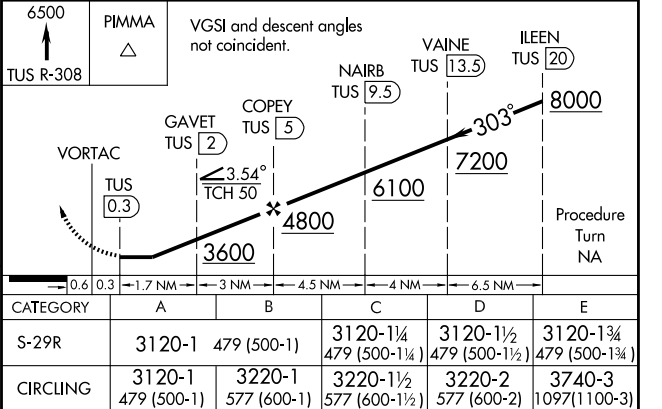
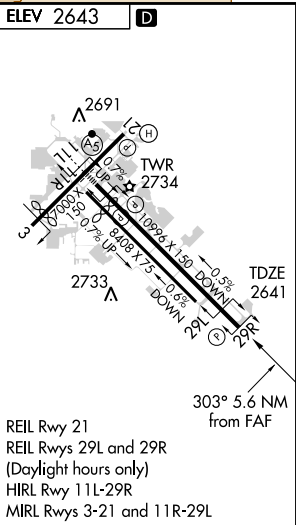
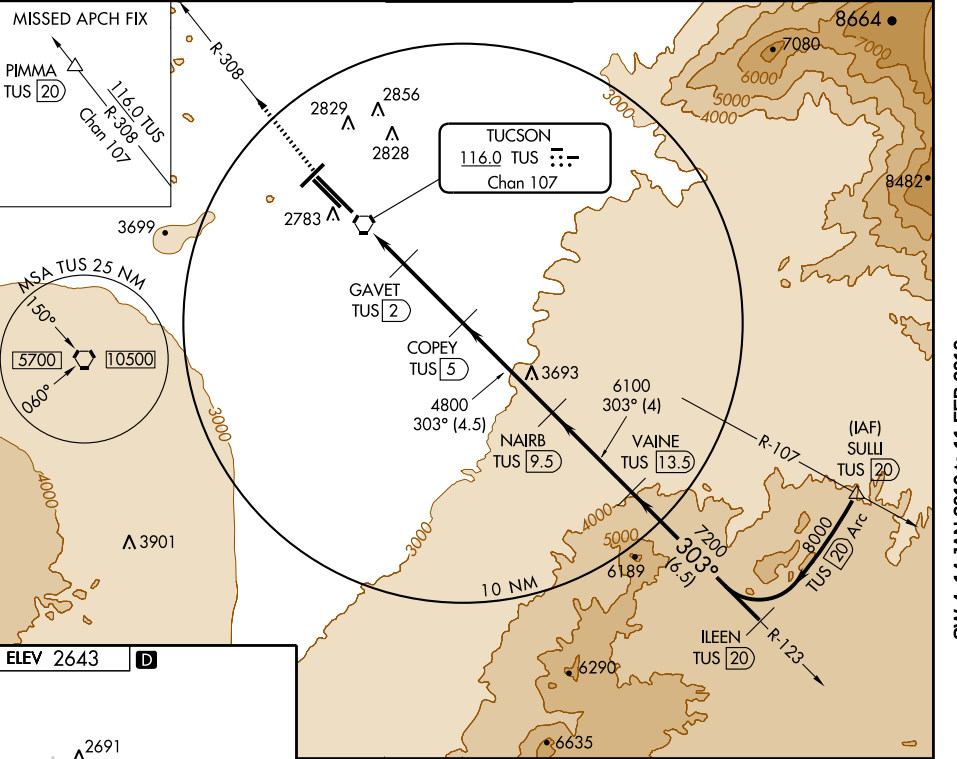
SW-4. 14 JAN 2010 to 11 FEB 2010

VORTAC TUS	APP CRS	Rwy Idg	10996
116.0	303°	TDZE	2641
Chan 107		Apt Elev	2643

▼
▲

MISSED APPROACH: Climb to 6500 to PIMMA/TUS 20 DME via TUS R-308.

ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
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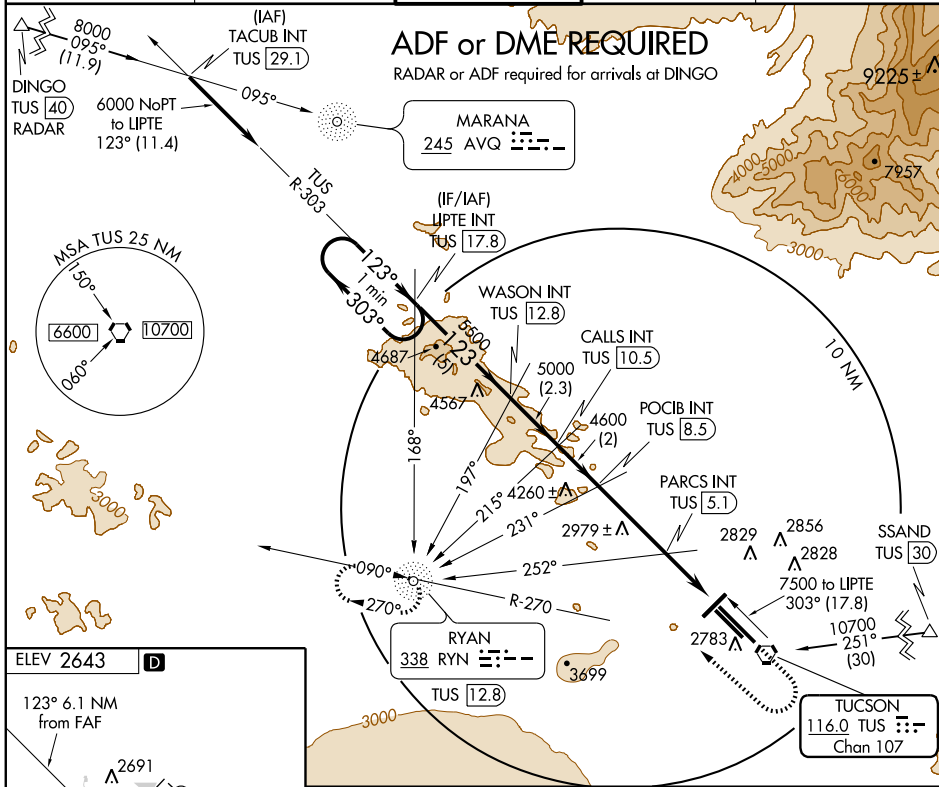
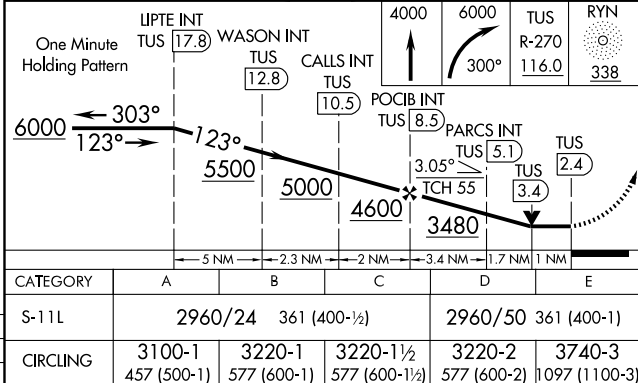


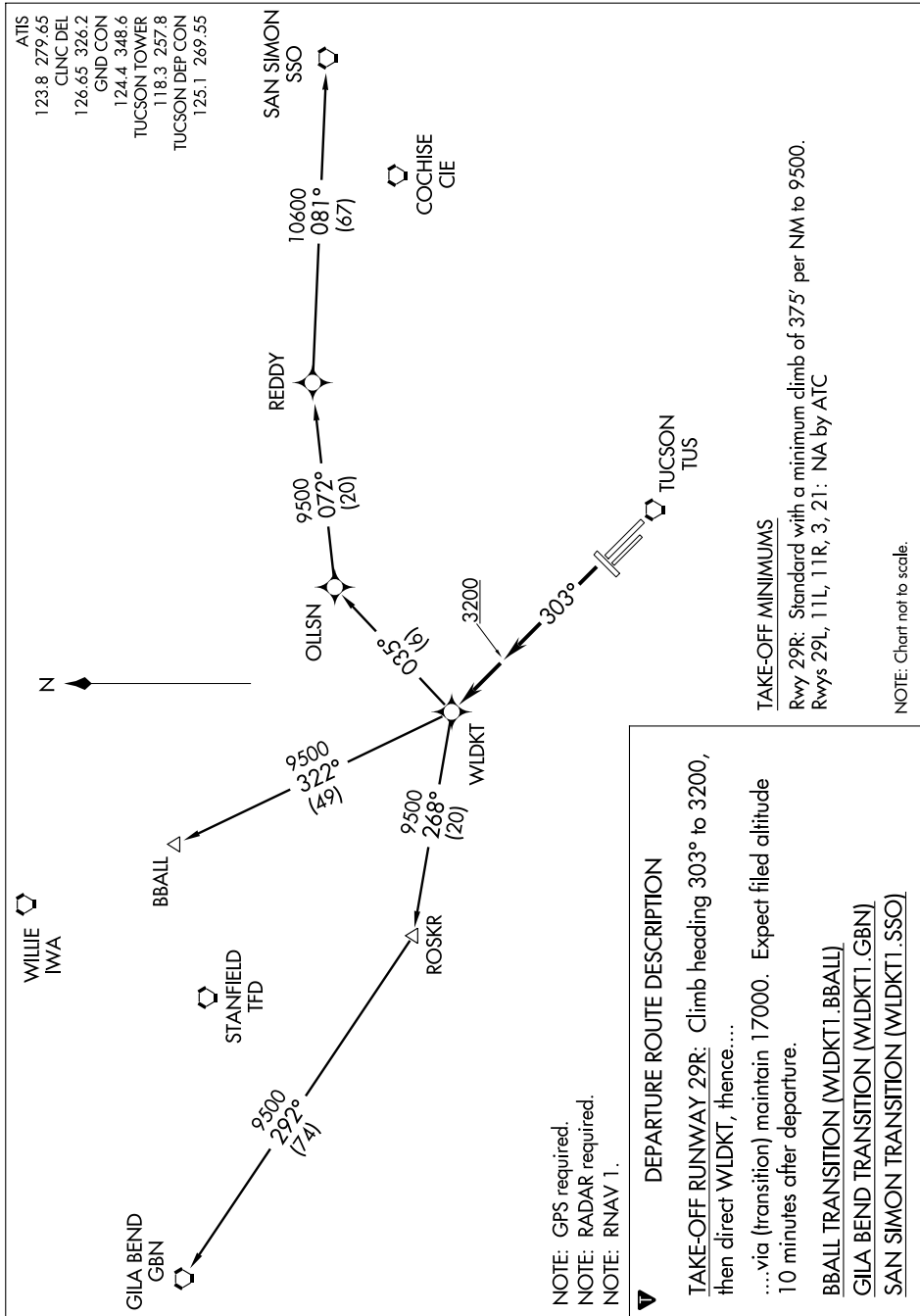
VORTAC TUS 116.0 Chan 107	APP CRS 123°	Rwy Idg 10996 TDZE 2599 Apt Elev 2643
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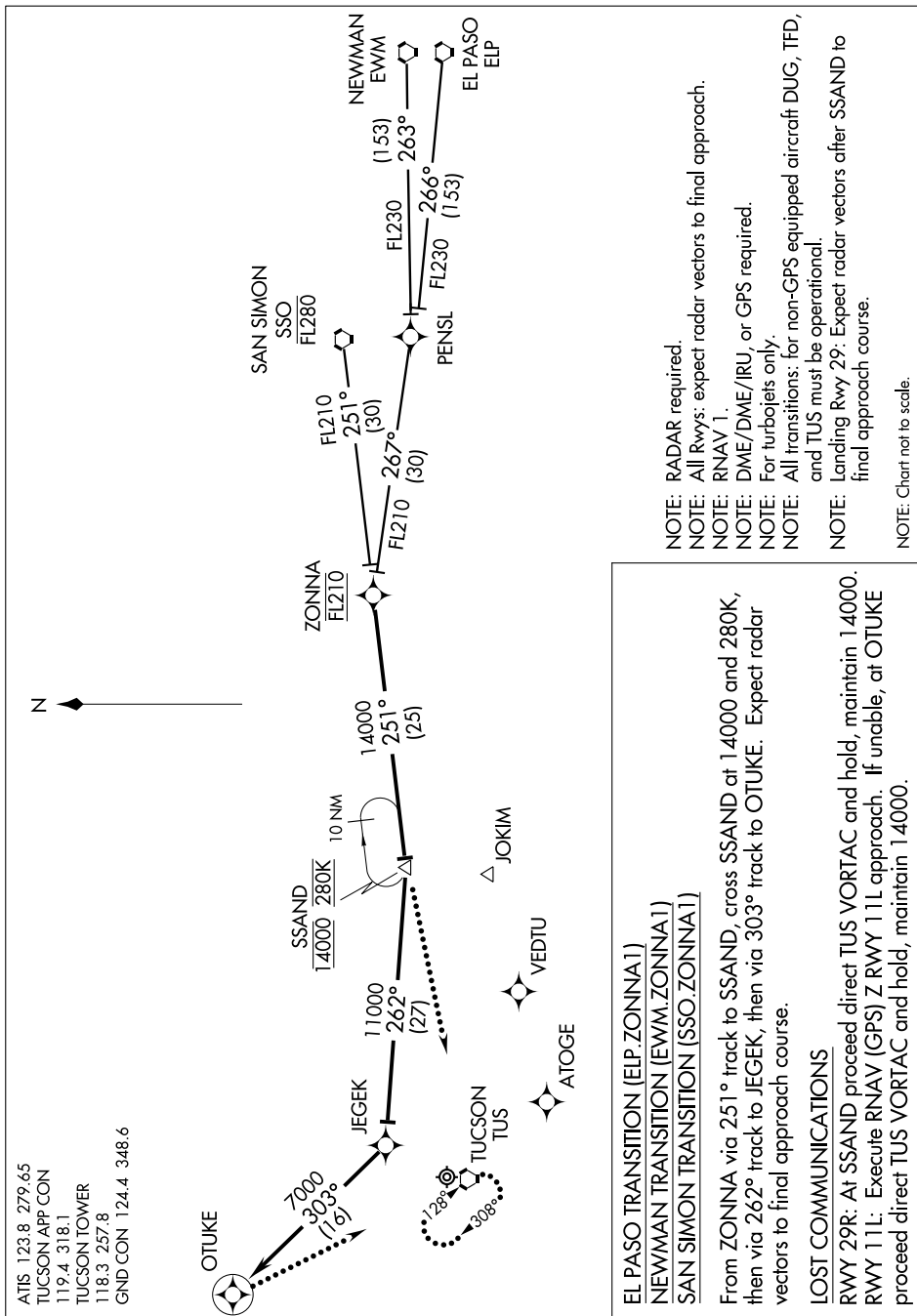
VOR or TACAN RWY 11L

TUCSON INTL (TUS)

	For inoperative MALS/R, increase S-111 Cats. D and E visibility to RVR 6000. ADF or DME required.	MALS/R	MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 (Cat. E 8000) via heading 300° and TUS R-270 to RYN NDB/TUS 12.8 DME and hold.		
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL	
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2	

[illegible]

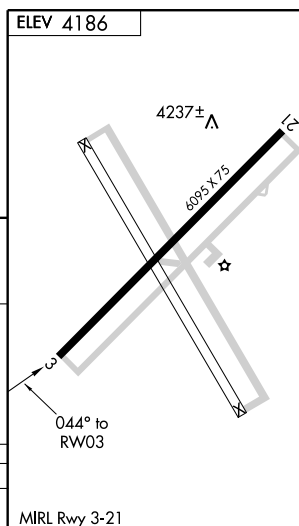
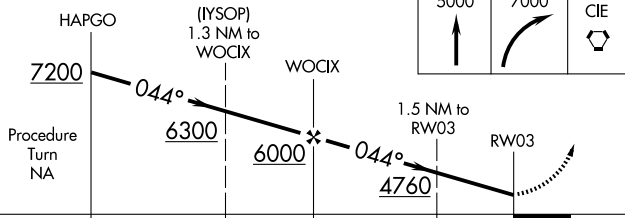
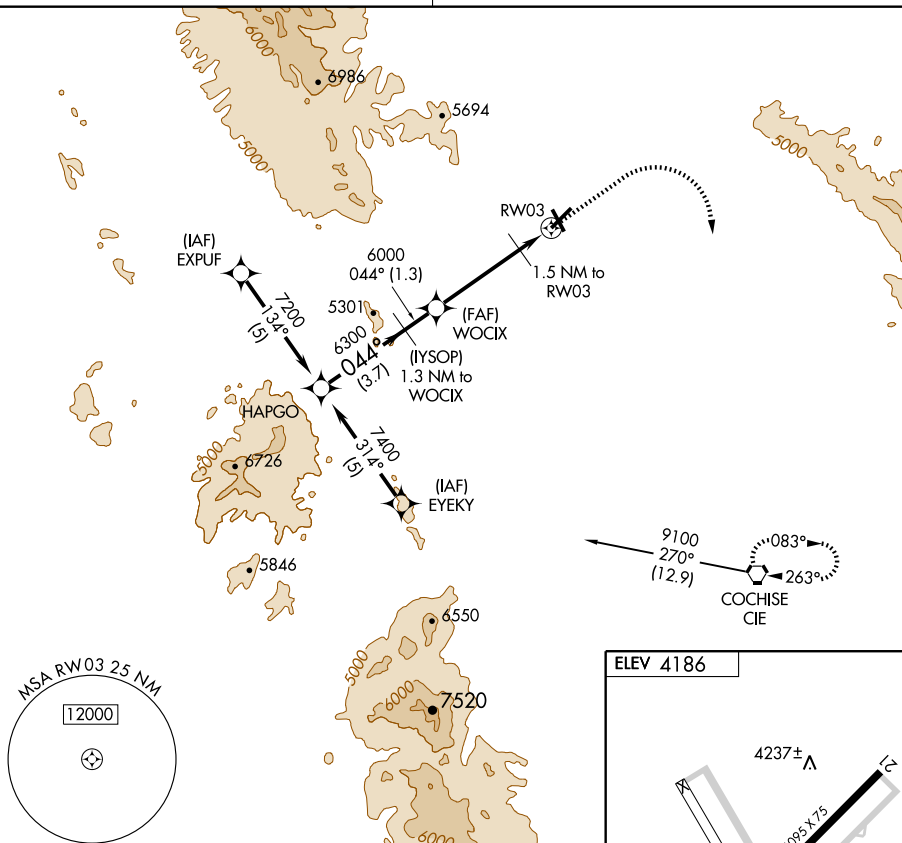




APP CRS
044°Rwy Idg
TDZE
Apt Elev**N/A**
N/A
4186

GPS-A

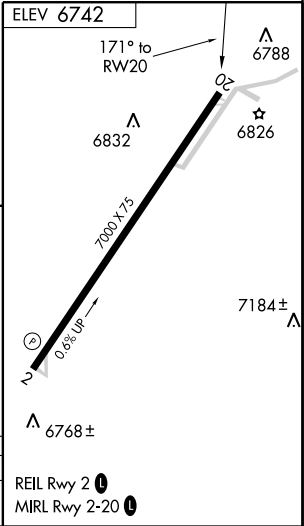
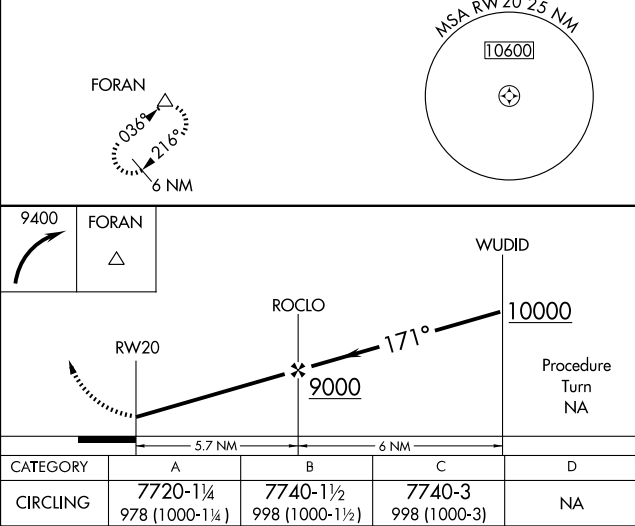
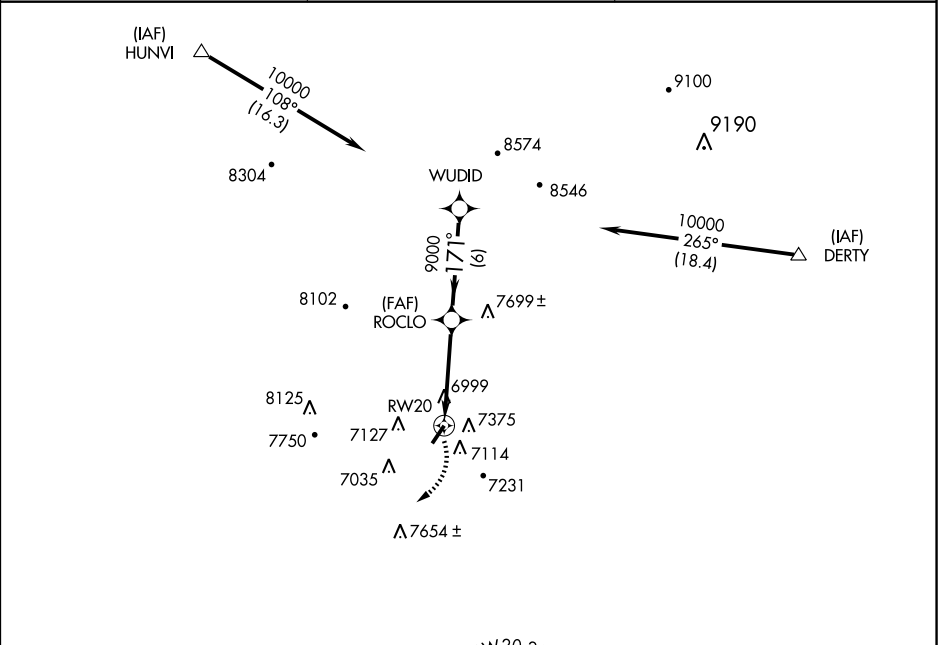
WILLCOX/COCHISE COUNTY (P33)

Obtain local altimeter on CTAF, when not available
procedure not authorized.MISSED APPROACH: Climb to 5000 then climbing right turn to
7000 direct CIE VORTAC and hold.ALBUQUERQUE CENTER
134.45 327.15UNICOM
122.8 (CTAF)

APP CRS	Rwy Idg	N/A
171°	TDZE	N/A
	Apt Elev	6742

 GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing right turn to 9400 direct FORAN WP and hold.
 NA	Procedure not authorized at night.

ASOS 118.325	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 
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APP CRS
021°

Rwy Idg
TDZE
Apt Elev

7000
6719
6742

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

Procedure not authorized at night.

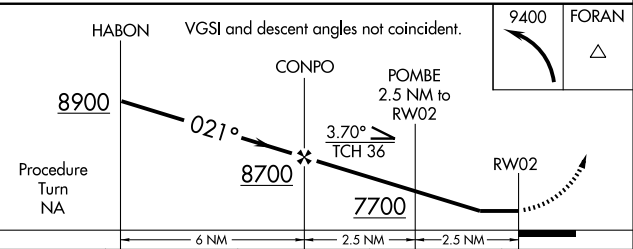
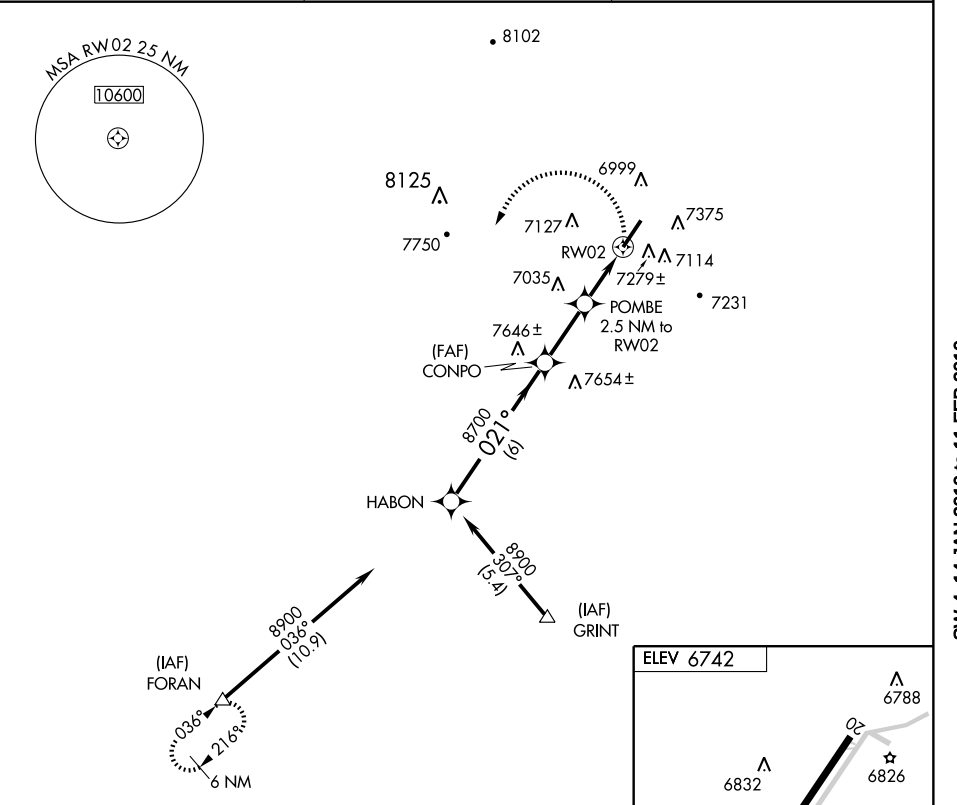
Circling not authorized east of rwy 2-20.

MISSED APPROACH: Climbing left turn to 9400 direct FORAN WP and hold.

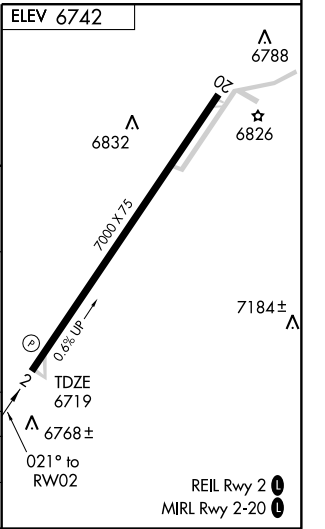
ASOS
118.325

ALBUQUERQUE CENTER
124.325 288.25

UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
LNAV MDA	7480-1 761 (800-1)	7480-1¼ 761 (800-1¼)	7480-2¼ 761 (800-2¼)	NA
CIRCLING	7480-1 738 (800-1)	7480-1¼ 738 (800-1¼)	7540-2¼ 798 (800-2¼)	NA



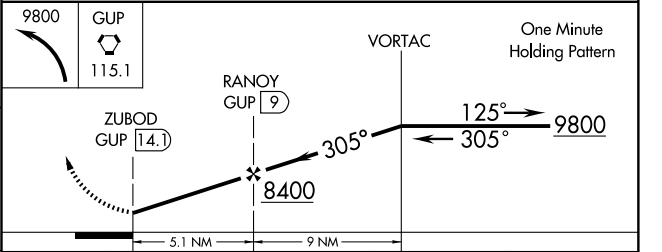
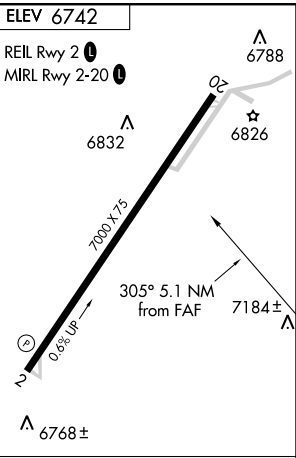
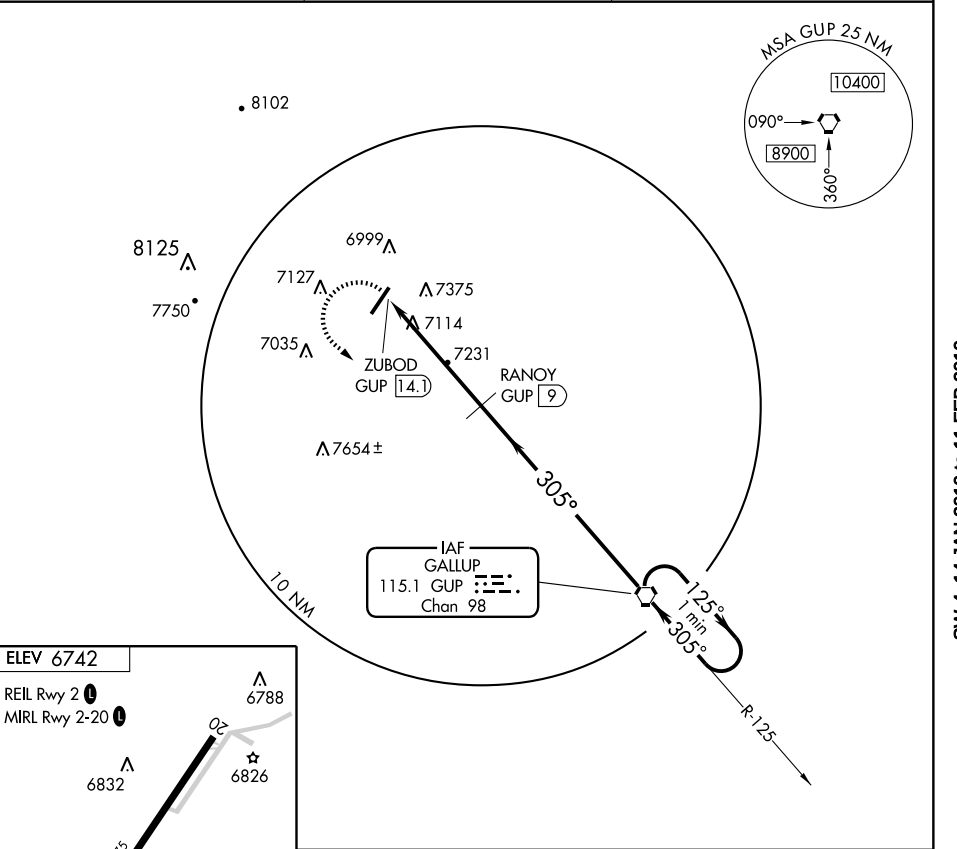
SW-4, 14 JAN 2010 to 11 FEB 2010

▼

▲

MISSED APPROACH: Climbing left turn to 9800 direct GUP VORTAC and hold.

ASOS 118.325	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 0
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CATEGORY						A	B	C	D
CIRCLING						7760-1¼ 1018 (1100-1¼)	7760-1½ 1018 (1100-1½)	7760-3	1018 (1100-3)

Knots	60	90	120	150	180
Min:Sec					

SW-4, 14 JAN 2010 to 11 FEB 2010

VORTAC INW 112.6 Chan 73	APP CRS 106°	Rwy Idg 7100 TDZE 4899 Apt Elev 4941
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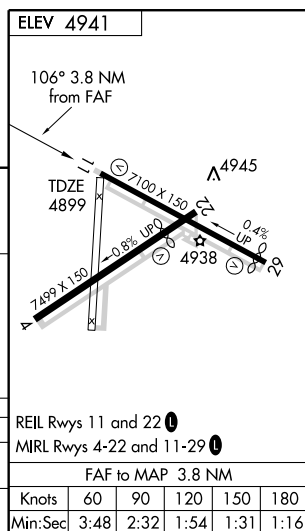
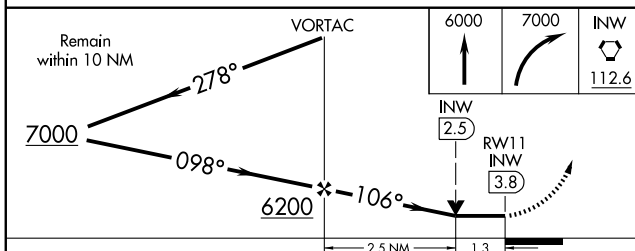
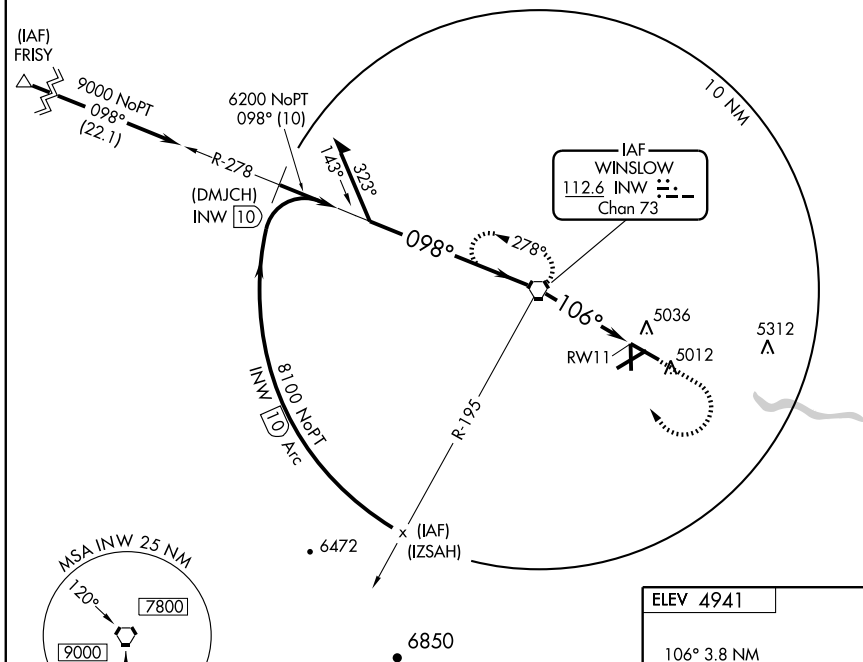
VOR or GPS RWY 11
WINSLOW-LINDBERGH RGNL (INW)

MISSED APPROACH: Climb to 6000, then climbing right turn to 7000 direct INW VORTAC and hold.

ASOS
118.875

ALBUQUERQUE CENTER
124.5 306.2

UNICOM
122.8 (CTAF) **L**



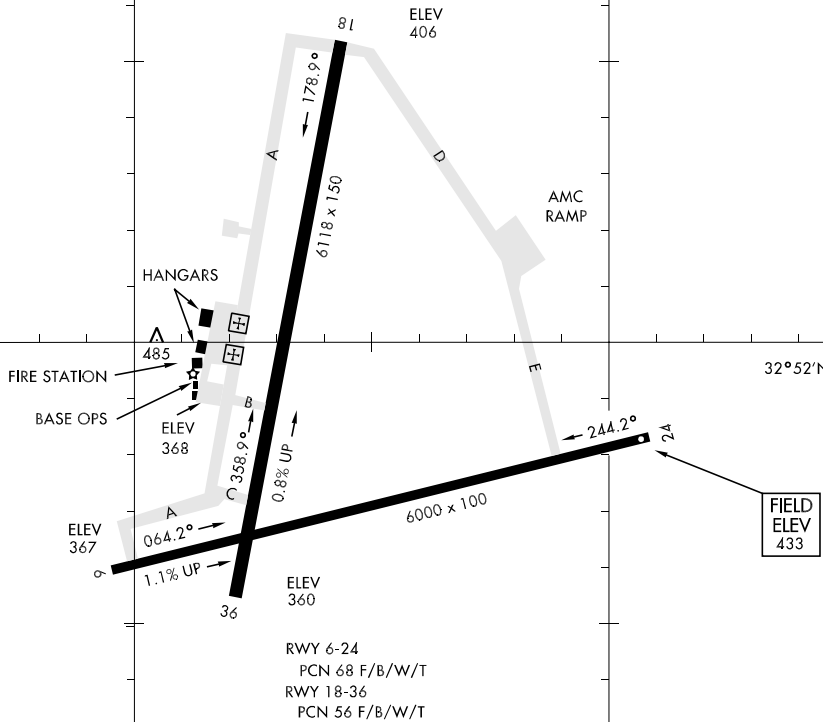
CTAF
126.20 242.175
GND CON
121.8 229.4

32°53'N

JANUARY 2009
ANNUAL RATE OF CHANGE
0.2° W



SW-4, 14 JAN 2010 to 11 FEB 2010



APCH CRS
063°

Rwy Idg
TDZE
Arpt Elev

6000
387
433

AL-6341 [USA]

LAGUNA AAF (KLGF)

- ▼** * When local altimeter setting not received, use YUMA MCAS/YUMA Inl altimeter setting and increase all MDAs 80 feet, increase CAT CD vis ½ mile.
- ▲** NA Procedure NA when airfield closed.

MISSED APPROACH: Climbing right turn to 3600 direct BZA VORTAC and hold.

YUMA APP CON

124.7 374.8

CTAF

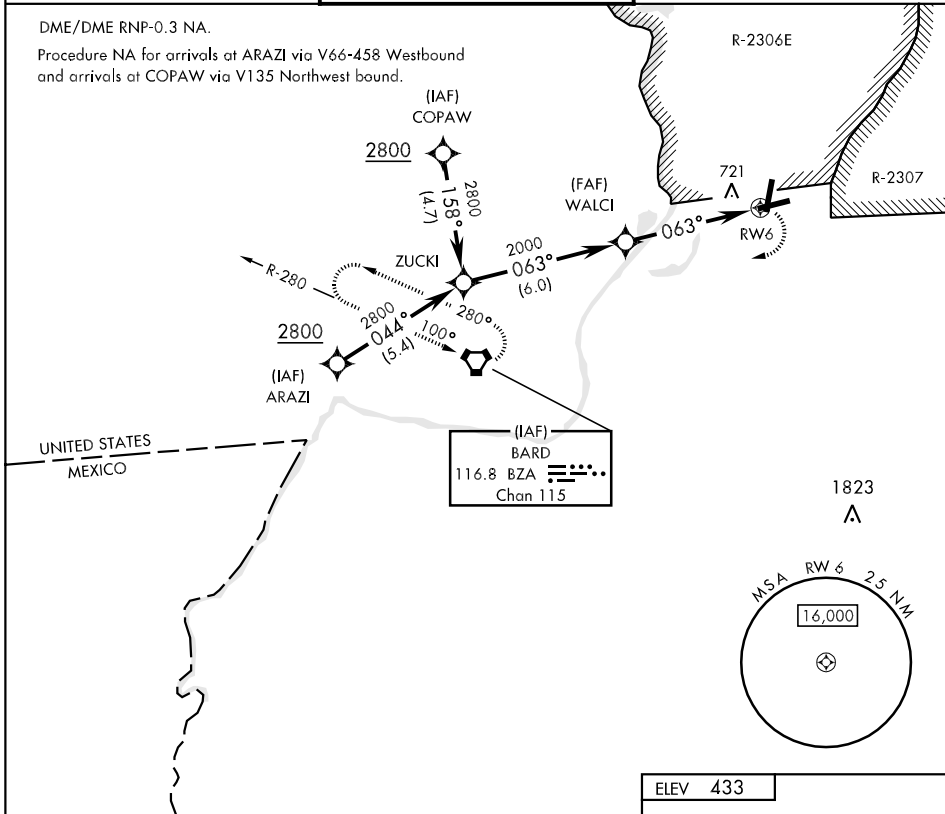
126.20 242.175

GND CON

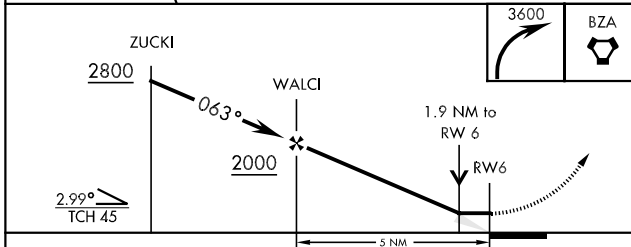
121.8 0 229.4

DME/DME RNP-0.3 NA.

Procedure NA for arrivals at ARAZI via V66-458 Westbound and arrivals at COPAW via V135 Northwest bound.

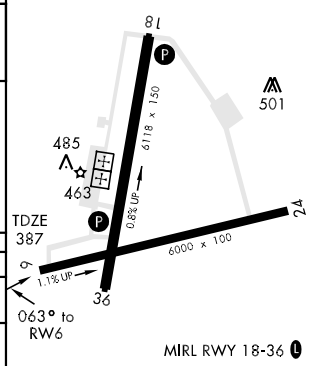


SW-4, 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
LNNAV MDA *	1020-1 633 (600-1)	1020-1 633 (600-1)	1020-2 633 (600-2)	1020-2 633 (600-2)
CIRCLING *	1080-1 647 (700-1)	1080-1 647 (700-1)	1080-2 647 (700-2)	1080-2 647 (700-2)

ELEV 433



APCH CRS **163°** Rwy Idg **6118**
 TDZE **410**
 Arpt Elev **433**

AL-6341 [USA]

LAGUNA AAF (KLGf)

▼ * When local altimeter setting not received, use YUMA MCAS/
 YUMA Intl altimeter setting and increase all MDAs 80 feet and
▲ NA LNAV CAT D and circling CAT CD vis $\frac{1}{4}$ mile.

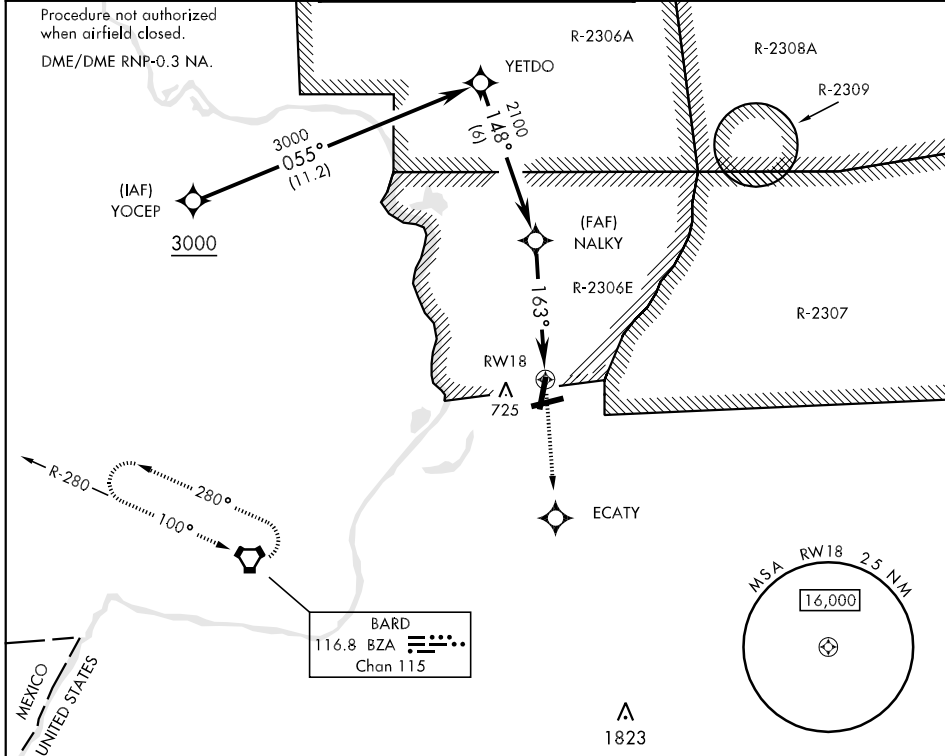
MISSED APPROACH: Climb to 3600 direct
 ECATY, via 250° track to BZA VORTAC
 and hold, continue climb in hold to 3600.

YUMA APP CON
124.7 374.8

CTAF
126.20 242.175

GND CON
121.8 0 229.4

Procedure not authorized
 when airfield closed.
 DME/DME RNP-0.3 NA.



SW-4, 14 JAN 2010 to 11 FEB 2010

VDP NA when using YUMA MCAS
 /YUMA INTL altimeter setting.

3600

ECATY

tr
 250°

3000
 YETDO

NALKY

1.2 NM to
 RW18

RW18

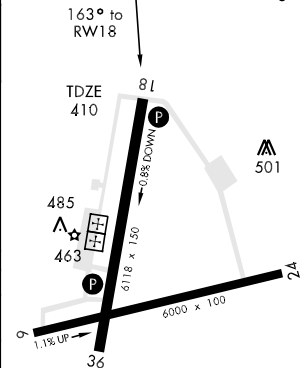
3.12°
 TCH 37

5 NM

CATEGORY	A	B	C	D
LNAV MDA *	820-1 410 (400-1)	820-1 410 (400-1)	820-1 410 (400-1)	820-2 647 (700-2)
CIRCLING *	1080-1 647 (700-1)	1080-1 647 (700-1)	1080-2 647 (700-2)	1080-2 647 (700-2)

ELEV 433

MIRL RWY 18-36



VORTAC BZA 116.8 Chan 115	APCH CRS 048°	Rwy Idg 6000 TDZE 379 Arprt Elev 433
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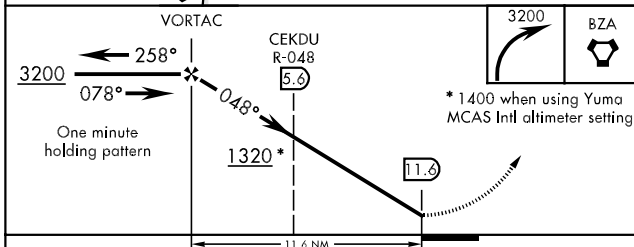
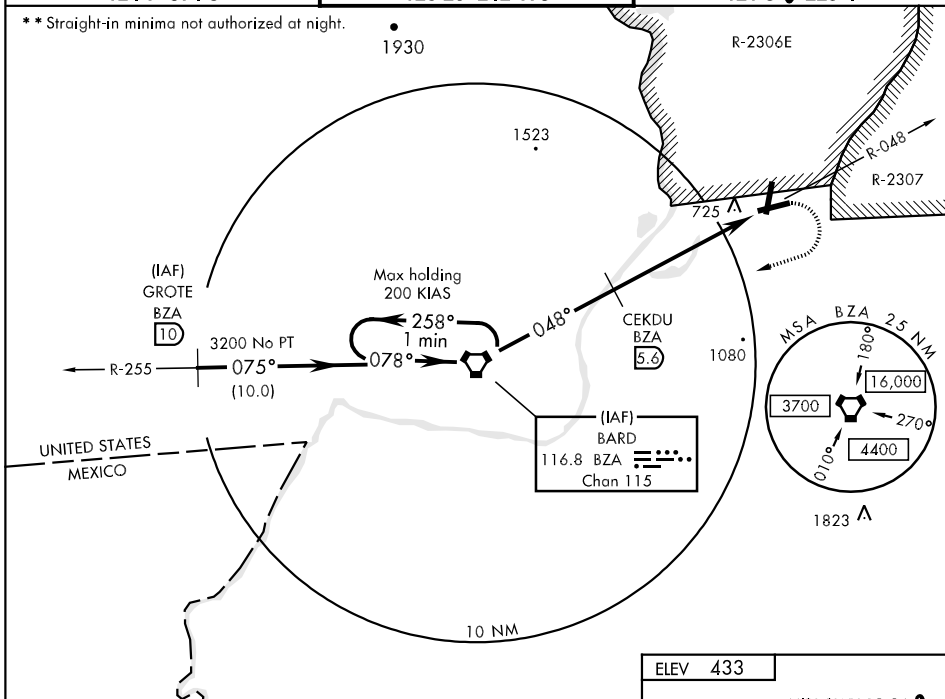
AL-6341 [USA]

LAGUNA AAF (KLGf)

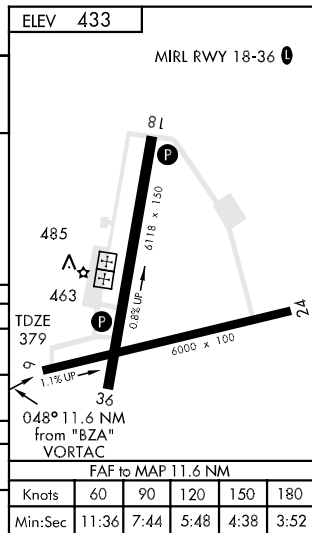
▼ Procedure not authorized when airfield closed. ▲ NA Obtain local altimeter setting on CTAF. When not received, use Yuma MCAS Intl altimeter setting and increase all MDAs 80 feet, increase visibilities CAT BC $\frac{1}{4}$ mile, and circling CAT BC $\frac{1}{4}$ mile; DME minimums: increase CAT B $\frac{1}{4}$ mile, CAT CD $\frac{1}{2}$ mile and circling CAT CD $\frac{1}{4}$ mile.	MISSED APPROACH: Climbing right turn to 3200 direct BZA VORTAC and hold.
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YUMA APP CON 124.7 374.8	CTAF 126.20 242.175	GND CON 121.8 0 229.4
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** Straight-in minima not authorized at night.



CATEGORY	A	B	C	D
S-6 **	1320-1 $\frac{1}{4}$ 941 (1000-1 $\frac{1}{4}$)	1320-2 $\frac{3}{4}$ 941 (1000-2 $\frac{3}{4}$)	1320-3 941 (1000-3)	1320-3 941 (1000-3)
CIRCLING	1320-1 $\frac{1}{4}$ 898 (900-1 $\frac{1}{4}$)	1320-2 $\frac{3}{4}$ 898 (900-2 $\frac{3}{4}$)	1320-3 898 (900-3)	1320-3 898 (900-3)
DME MINIMA				
S-6 **	1040-1 661 (700-1)	1040-1 $\frac{1}{4}$ 661 (700-1 $\frac{1}{4}$)	1040-2 661 (700-2)	1040-2 661 (700-2)
CIRCLING	1080-1 658 (700-1)	1080-1 $\frac{1}{4}$ 658 (700-1 $\frac{1}{4}$)	1080-2 658 (700-2)	1080-2 658 (700-2)



AIRPORT DIAGRAM

AFD-511 [USN]

YUMA, ARIZONA

ATIS ★
118.8 273.2
YUMA TOWER ★
119.3 382.8
YUMA GND CON
121.9 315.7
YUMA CLNC DEL
118.0 336.4

114°37'W

OCTOBER 2009
ANNUAL RATE OF CHANGE
0.1° W



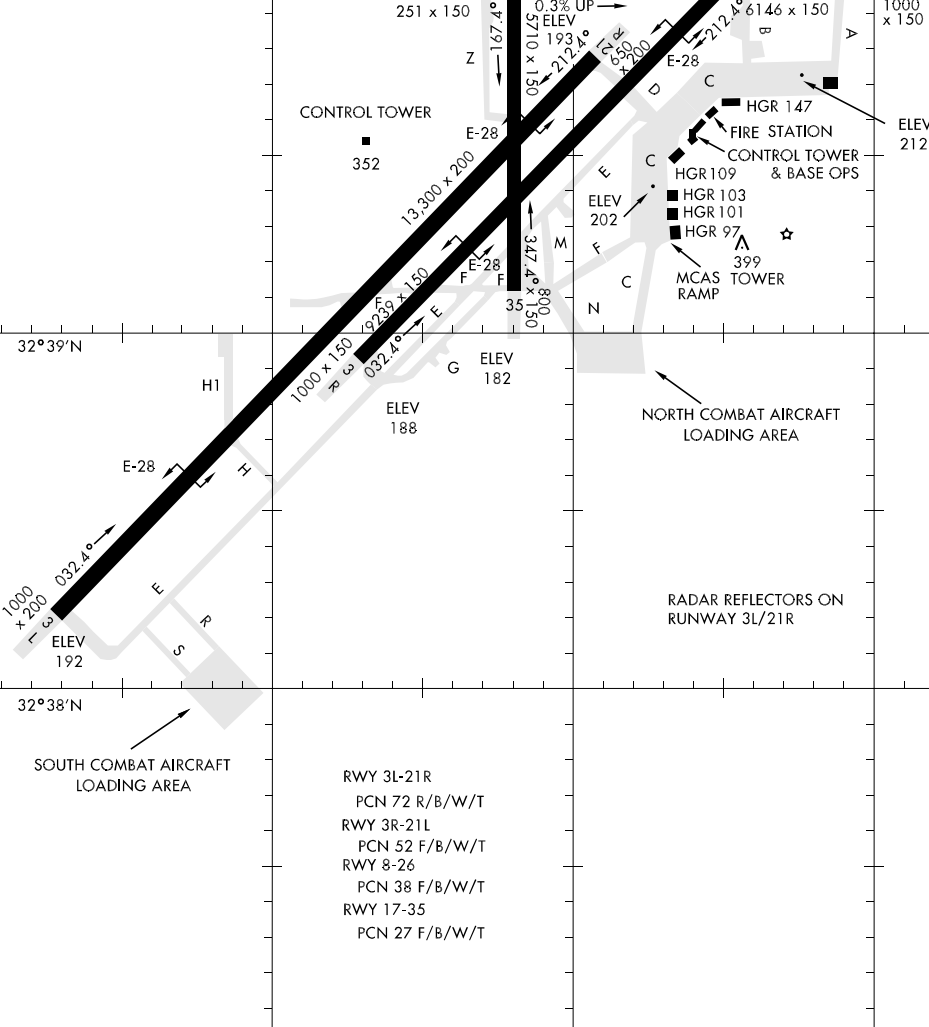
114°36'W

114°35'W

32°40'N

32°39'N

32°38'N



SW-4, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

YUMA, ARIZONA

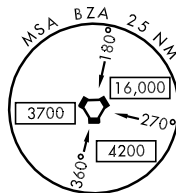
ARGUS-TWO DEPARTURE (ARGUS2•IPL)

YUMA MCAS, YUMA INTL (RWY 17)
YUMA, ARIZONA

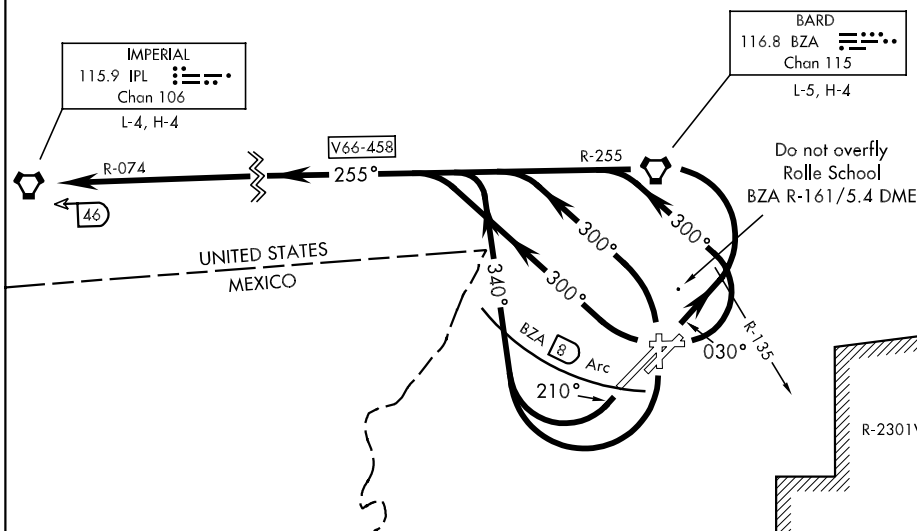
ATIS ★
118.8 273.2
CLNC DEL
118.0 336.4
GND CON
121.9 315.7
YUMA TOWER ★
119.3 (CTAF) 382.8
YUMA DEP CON
125.55 281.0

SHL-511 [USN]

2663



RADAR REQUIRED



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb heading 030° until passing BZA VORTAC R-135, then turn left direct BZA, thence....

TAKE-OFF RWY 8: Climbing left turn heading 300° to intercept BZA R-255, thence....

TAKE-OFF RWY 17: Climbing right turn heading 340° to intercept BZA R-255, thence....

TAKE-OFF RWY 21L/R: Climb heading 210° until passing BZA 8 DME, then climbing right turn heading 340° to intercept BZA R-255, thence....

TAKE-OFF RWY 26: Climbing right turn heading 300° to intercept BZA R-255, thence....

TAKE-OFF RWY 35: Climbing left turn heading 300° to intercept BZA R-255, thence....

...Via BZA R-255 and IPL R-074 to IPL VORTAC, then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

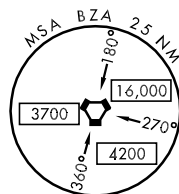
CARGO-SEVEN DEPARTURE (CARGO7•CARGO)

YUMA MCA, YUMA INTL (KTYE)
YUMA, ARIZONA

ATIS★
118.8 273.2
CLNC DEL
118.0 336.4
GND CON
121.9 315.7
YUMA TOWER★
119.3 (CTAF) 382.8
YUMA DEP CON
125.55 281.0

SHL-511 [USN]

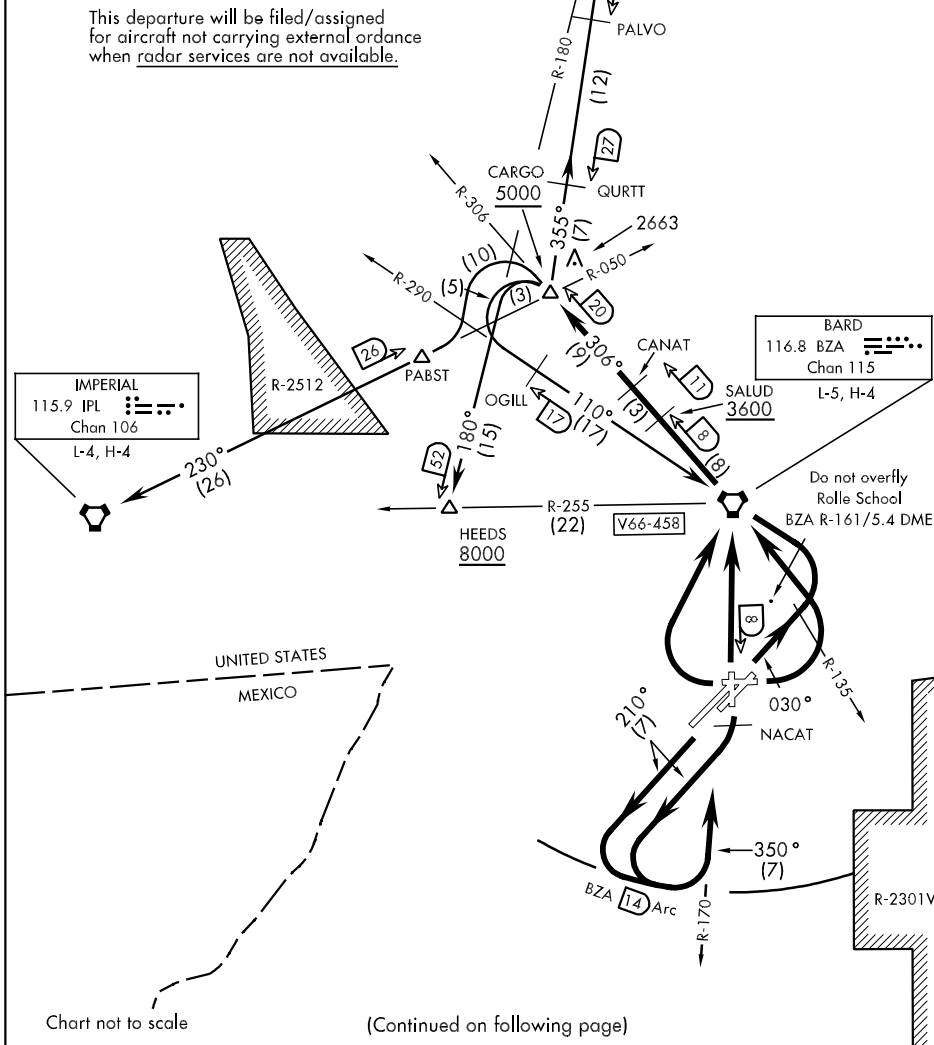
BLTHE
117.4 BLH
Chan 121
L-4-5, H-4



Rwy	Knots	60	120	180	240	300	360
ALL	V/V(fpm)	260	520	780	1040	1300	1560

ATC Climb Rate to 3600

This departure will be filed/assigned for aircraft not carrying external ordnance when radar services are not available.



SW-4, 14 JAN 2010 to 11 FEB 2010

CARGO-SEVEN DEPARTURE (CARGO7•CARGO)

YUMA, ARIZONA

SHL-511 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

TAKE-OFF RWY 3L/R: Climb heading 030 ° until crossing BZA VORTAC R-135, then turn left direct BZA, thence....

TAKE-OFF RWY 8: Climbing left turn direct BZA VORTAC, thence....

TAKE-OFF RWY 17, 21L/R: Climb heading 210° to join and arc S on the BZA 14 mile arc to intercept BZA R-170 to BZA VORTAC, thence....

TAKE-OFF RWY 26: Climbing right turn direct BZA VORTAC, thence....

TAKE-OFF RWY 35: Climb direct BZA VORTAC, thence....

....Via BZA R-306 to CARGO. Cross SALUD at or above 3600. Cross CARGO at or above 5000.

BARD TRANSITION(CARGO7•BZA): At CARGO, turn left to intercept BZA R-290 to BZA VORTAC.

BLYTHE TRANSITION(CARGO7•BLH): At CARGO, turn right to intercept BLH R-175 to BLH VORTAC.

HEEDS TRANSITION(CARGO7•HEEDS): At CARGO, turn left to intercept BLH R-180 to HEEDS. Cross HEEDS at or above 8000.

IMPERIAL TRANSITION(CARGO7•IPL): At CARGO, turn left to intercept IPL R-050 to IPL VORTAC.

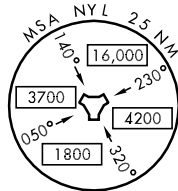
GLAMIS-SEVEN DEPARTURE (GLAMS7•CARGO)

YUMA, ARIZONA

ATIS ★
118.8 273.2
CLNC DEL
118.0 336.4
GND CON
121.9 315.7
YUMA TOWER ★
119.3 (CTAF) 382.8
YUMA DEP CON
125.55 281.0

SHL-511 [USN]

BLT
117.4 BLH
Chan 121
L-4-5, H-4



Rwy	Knots	60	120	180	240	300	360
ALL	V/V(fpm)	305	610	915	1220	1525	1830

ATC Climb Rate to 3600

IMPERIAL
115.9 IPL
Chan 106
L-4, H-4

BARD
116.8 BZA
Chan 115
L-5, H-4

YUMA
Chan 84 NYL

This departure will be filed/assigned for aircraft carrying external ordnance. Prior to crossing BRYGG DME fix, flight path adjustments to avoid overflight of congested areas are authorized.

This departure will be filed/assigned for aircraft as a preferential departure route when radar services are available.

(Continued on following page)

Chart not to scale

GLAMIS-SEVEN DEPARTURE (GLAMS7•CARGO)

YUMA, ARIZONA

SW-4, 14 JAN 2010 to 11 FEB 2010

SHL-511 [USN]
DEPARTURE ROUTE DESCRIPTION
(CONTINUED)

TAKE-OFF RWY 3L/R: Climb heading 030° to NYL TACAN 4 DME, then turn left heading 280°, intercept NYL R-317 to BRYGG then CARGO. Cross BRYGG at or above 3600, cross CARGO at or above 5000.

TAKE-OFF RWY 8, 35: Climbing left turn to intercept NYL R-317 to BRYGG then CARGO. Cross BRYGG at or above 3600, cross CARGO at or above 5000.

TAKE-OFF RWY 17, 21L/R and 26: Climbing right turn to intercept NYL R-317 to PNOBB then CARGO. Cross BRYGG at or above 3600, cross CARGO at or above 5000.

BARD TRANSITION (GLAMS7• BZA): At CARGO turn left to intercept BZA VORTAC R-290 to BZA.

BLYTHE TRANSITION (GLAMS7• BLH): At CARGO turn right to intercept BLH VORTAC R-175 to BLH.

HEEDS TRANSITION (GLAMS7• HEEDS): At CARGO turn left to intercept BLH VORTAC R-180 to HEEDS. Cross HEEDS at or above 8000.

IMPERIAL TRANSITION (GLAMS7• IPL): At CARGO turn left to intercept IPL VORTAC R-050 to IPL.

SW-4, 14 JAN 2010 to 11 FEB 2010

TACAN NYL Chan 84	APCH CRS 035°	Rwy Idg 13,300 TDZE 195 Arpt Elev 213	JAL-511 [USN]	YUMA MCAS/YUMA INTL (KNYL)
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MISSED APPROACH: Climb to 4000 via NYL TACAN R-020 to JIBUN,
R-020/10 DME, then arc N on the NYL 10 mile Arc to PRSON and hold.

ATIS ★ 118.8 273.2	YUMA APP CON 124.7 374.8	YUMA TOWER ★ 119.3 (CTAF) 0 382.8	GND CON 121.9 315.7	CLNC DEL 118.0 336.4	ASR/PAR
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CAUTION:

Prior to IAF verify navigation
NYL TACAN Chan 84

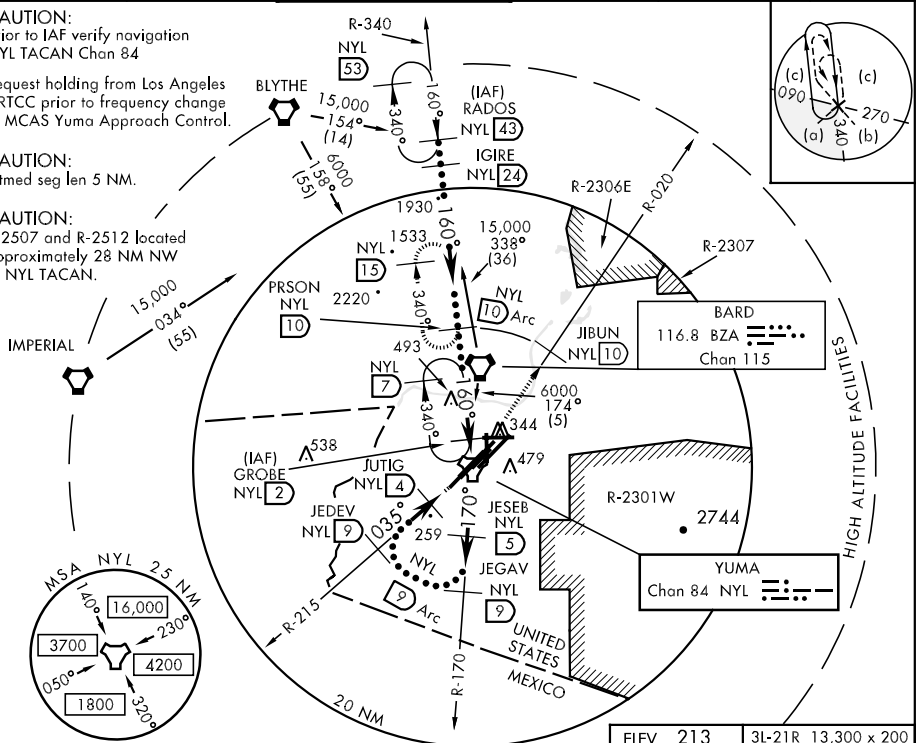
Request holding from Los Angeles
ARTCC prior to frequency change
to MCAS Yuma Approach Control.

CAUTION:

Intmed seg len 5 NM.

CAUTION:

R-2507 and R-2512 located
approximately 28 NM NW
of NYL TACAN.



YUMA MCAS/YUMA INTL (KNYL)

MISSED APPROACH: Climbing right turn to 4000
via NYL TACAN R-340 to PRSON and hold.

CAUTION:

IMPERIAL

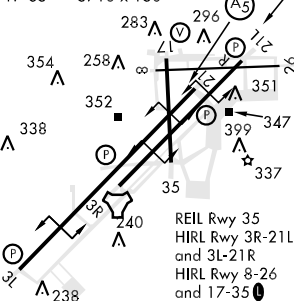
BARD
116.8 BZA 
Chan 115

YUMA
Chan 84 NYL =:

EMERG SAFE ALT 100 NM 17,000



3L-21R	13,300 x 200
3R-21L	9239 x 150
8-26	6146 x 150
17-35	5710 x 150



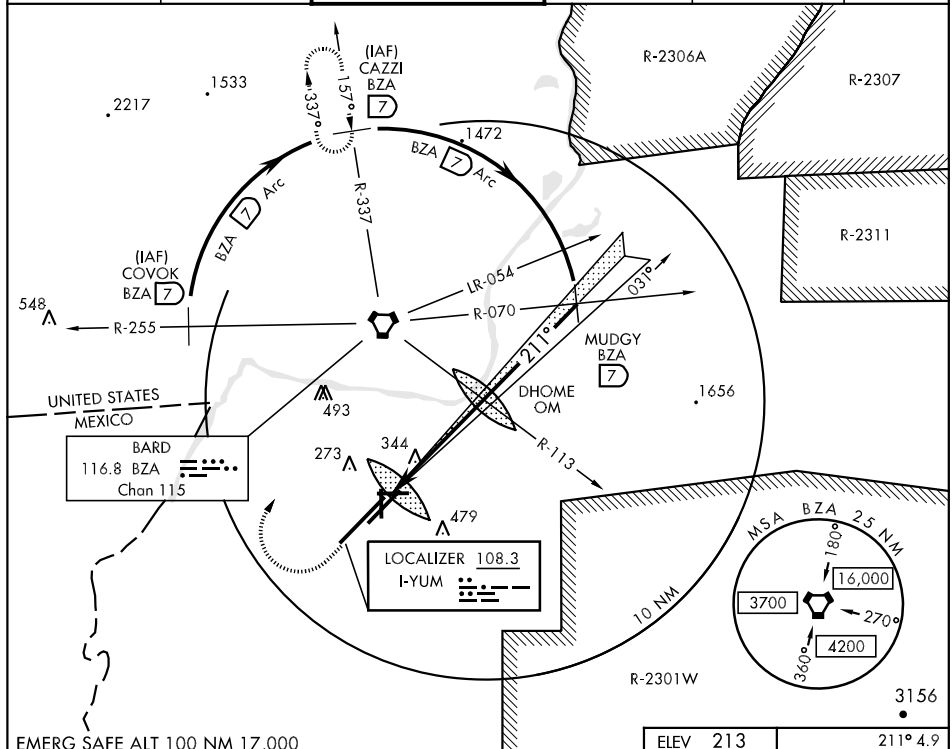
LOC I-YUM 108.3	APCH CRS 211°	Rwy Idg 21L 9239 21R 13,300 TDZE 21L 207 21R 193 Arprt Elev 213
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AL-511 [USN] YUMA MCAS/YUMA INTL (KNYL)

▼ • When ALS inop, increase CAT ABCD vis to $\frac{3}{4}$ mile. •• When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to $1\frac{1}{4}$ miles.	MALSR
--	-----------

MISSED APPROACH: Climb to 900, then
 climbing right turn to 3600 direct BZA
 VORTAC and BZA R-337 to CAZZI and hold.

ATIS ★ 118.8 273.2	YUMA APP CON 124.7 374.8	YUMA TOWER ★ 119.3 (CTAF) 0 382.8	GND CON 121.9 315.7	CLNC DEL 118.0 336.4	ASR/PAR
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EMERG SAFE ALT 100 NM 17,000

900	3600	BZA				
						
VGSI and ILS not coincident						
						
			DHOME OM	MUDGY	CAZZI R-337	COVOK R-255
			1838	3000	3600	3600
			2100	Arc	GS 3.00° TCH 54	
0.4			4.5 NM	4.8 NM		
CATEGORY	A		B	C	D	
S-ILS 21R *	393-½		200	(200-½)		
S-LOC 21R **	600-½	407 (400-½)	600-¾	407 (400-¾)		
SIDESTEP 21L	600-1¾	393 (400-1¾)	600-2¼ 393 (400-2¼)			
CIRCLING	700-1	487 (500-1)	700-1½ 487 (500-1½)	780-2 567 (600-2)		

YUMA, ARIZONA

32°39'N-114°36'W

ELEV 213	211° 4.9°
3L-21R 13,300 x 200	TDZE from FAF
3R-21L 9239 x 150	21L 207
8-26 6146 x 150	21R 193
17-35 5710 x 150	296
283A	211
354 A	258 A
352 A	351 A
338 A	399 A
337 A	347 A
35 A	337 A
240 A	35 A
238 A	240 A
REIL Rwy 35	HIRL Rwy 3R-21L
	and 3L-21R
	HIRL Rwy 8-26
	and 17-35
FAF to MAP 4.5 NM	
Knots	60 90 120 150 180
Min:Sec	4:30 3:00 2:15 1:48 1:30

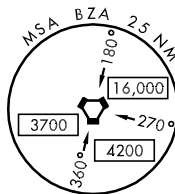
YUMA MCAS/YUMA INTL (KNYL)

MOHAK-TWO DEPARTURE (MOHAK2•MOHAK)

YUMA, ARIZONA

ATIS ★
118.8 273.2
CLNC DEL
118.0 336.4
GND CON
121.9 315.7
YUMA TOWER ★
119.3 (CTAF) 0 382.8
YUMA DEP CON
125.55 281.0

R-2306
R-2307
R-2308
R-2309



CAUTION: Tethered Balloon
up to 15,000

BARD
116.8 BZA
Chan 115

Do not overfly
Rolle School
BZA R-161/5.4 DME

MOHAK
L-5, H-4

R-247

32

GILA BEND
116.6 GBN
Chan 113

R-2301E

R-2301W

RADAR REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb heading 030° to intercept BZA VORTAC R-075, thence....

TAKE-OFF RWY 8: Climbing left turn heading 050° to intercept BZA R-075, thence....

TAKE-OFF RWY 17: Climbing left turn heading 040° to intercept BZA R-075, thence....

TAKE-OFF RWY 21L/R: Climb heading 210° until passing BZA 8 DME, then climbing right turn direct BZA VORTAC, thence....

TAKE-OFF RWY 26: Climbing right turn direct BZA VORTAC, thence....

TAKE-OFF RWY 35: Climb direct BZA VORTAC, thence....

....via BZA R-075 to MOHAK INT. Then via assigned route. Maintain assigned altitude.
Expect clearance to filed altitude/flight level 10 minutes after departure.

MOHAK-TWO DEPARTURE (MOHAK2•MOHAK)

YUMA, ARIZONA

SW-4, 14 JAN 2010 to 11 FEB 2010

PICACHO-TWO DEPARTURE (PICA2 • BLH)

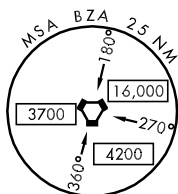
PICACHO-TWO DEPARTURE (PICA2 • BLH)
YUMA, ARIZONA

YUMA, ARIZONA

ATIS ★
118.8 273.2
CLNC DEL
118.0 336.4
GND CON
121.9 315.7
YUMA TOWER ★
119.3 (CTAF) 382.8
YUMA DEP CON
125.55 281.0

Λ 2663

RADAR REQUIRED



BARD
116.8 BZA
Chan 115
L-5, H-4

BLYTHE
117.4 BLH
Chan 121
L-4-5, H-4

Do not overfly
Rolle School
BZA R-161/5.4 DME

UNITED STATES
MEXICO

BZA 8 Arc
210°
340°
053°
030°
R-135
R-337
R-157
V135
(50)
337°
325°

R-2301W

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb heading 030° until passing BZA VORTAC R-135, then turn left heading 325° to intercept BZA R-337, thence....

TAKE-OFF RWY 8: Climbing left turn direct BZA VORTAC, thence....

TAKE-OFF RWY 17: Climbing right turn heading 340° to intercept BZA R-337, thence....

TAKE-OFF RWY 21L/R: Climb heading 210° until passing BZA 8 DME, then climbing right turn heading 350° to intercept BZA R-337, thence....

TAKE-OFF RWY 26: Climbing right turn direct BZA VORTAC, thence....

TAKE-OFF RWY 35: Climb direct BZA VORTAC, thence....

...via BZA R-337 and BLH VORTAC R-157 to BLH, then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

PICACHO-TWO DEPARTURE (PICA2 • BLH)

YUMA, ARIZONA

SW-4, 14 JAN 2010 to 11 FEB 2010

APCH CRS **031°** Rwy Ldg **13,300**
TDZE **195**
Arpt Elev **213**

AL-511 [USN]

YUMA MCAS/YUMA INTL (KNYL)

▼ DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1000, then climbing left turn to 4000
direct BARD and hold. Continue climb in hold to 4000, 200 KIAS max.

ATIS ★
118.8 273.2

YUMA APP CON
124.7 374.8

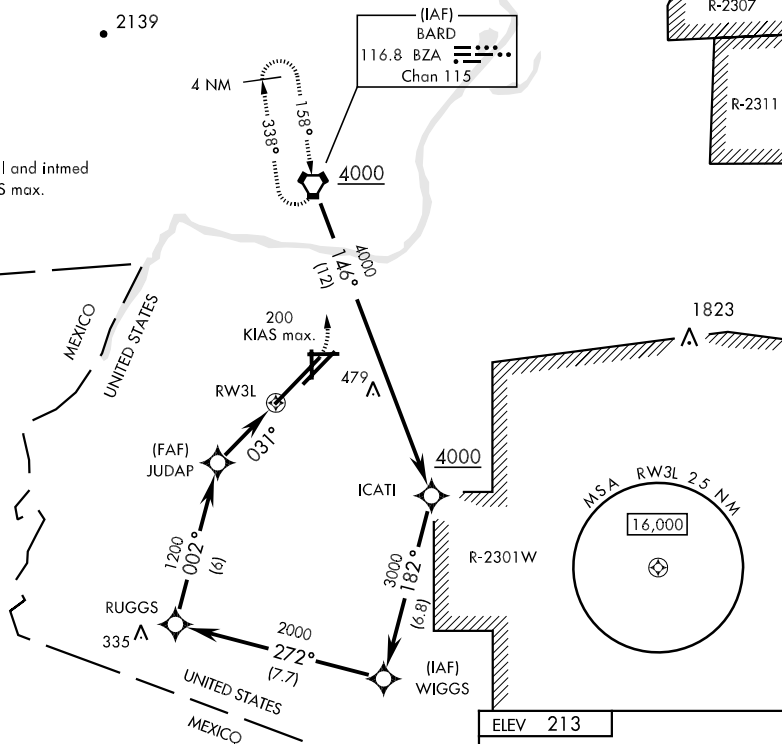
YUMA TOWER ★
119.3 (CTAF) 0 382.8

GND CON
121.9 315.7

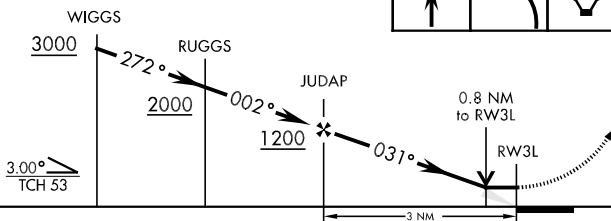
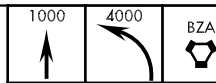
CLNC DEL
118.0 336.4

ASR/PAR

CAUTION: Initial and intmed
segments 180 KIAS max.

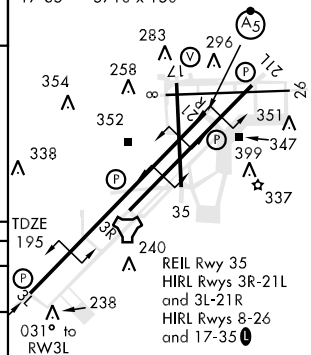


EMERG SAFE ALT 100 NM 17,000



CATEGORY	A	B	C	D
LNNAV MDA	500-1	305	(300-1)	
CIRCLING	700-1	487 (500-1)	700-1½ 487 (500-1½)	780-2 567 (600-2)

ELEV 213	
3L-21R	13,300 x 200
3R-21L	9239 x 150
8-26	6146 x 150
17-35	5710 x 150



APCH CRS 168°	Rwy Idg TDZE Arpt Elev	5710 197 213
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AL-511 [USN]

YUMA MCAS/YUMA INTL (KNYL)



DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 4000 direct CAZZI
and hold. Continue climb in hold to 4000. 200 KIAS max.

ATIS ★
118.8 273.2

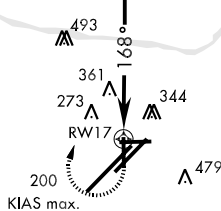
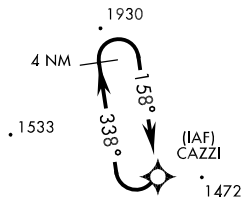
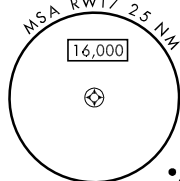
YUMA APP CON
124.7 374.8

YUMA TOWER ★
119.3 (CTAF) 0 382.8

GND CON
121.9 315.7

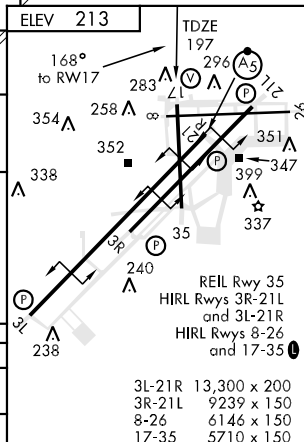
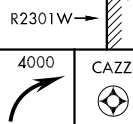
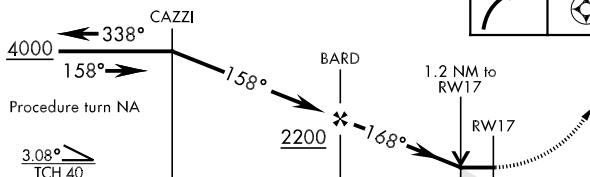
CLNC DEL
118.0 336.4

ASR/PAR



UNITED STATES
MEXICO

EMERG SAFE ALT 100 NM 17,000



CATEGORY	A	B	C	D
LNAV MDA	620-1	423 (500-1)	620-1 ¼ 423 (500-1 ¼)	
CIRCLING	700-1	487 (500-1)	700-1 ½ 487 (500-1 ½)	780-2 567 (600-2)

YUMA, ARIZONA

Amdt 1 09323

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

RNAV (GPS) RWY 17

APCH CRS **211°**
Rwy Idg **13,300**
TDZE **193**
Arpt Elev **213**

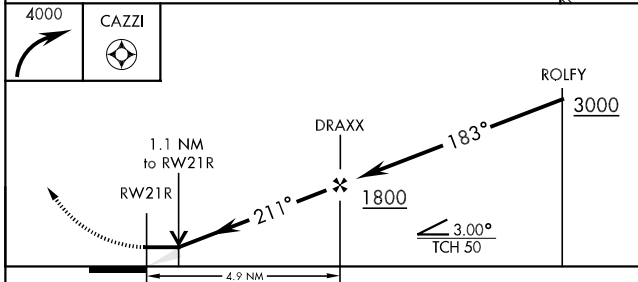
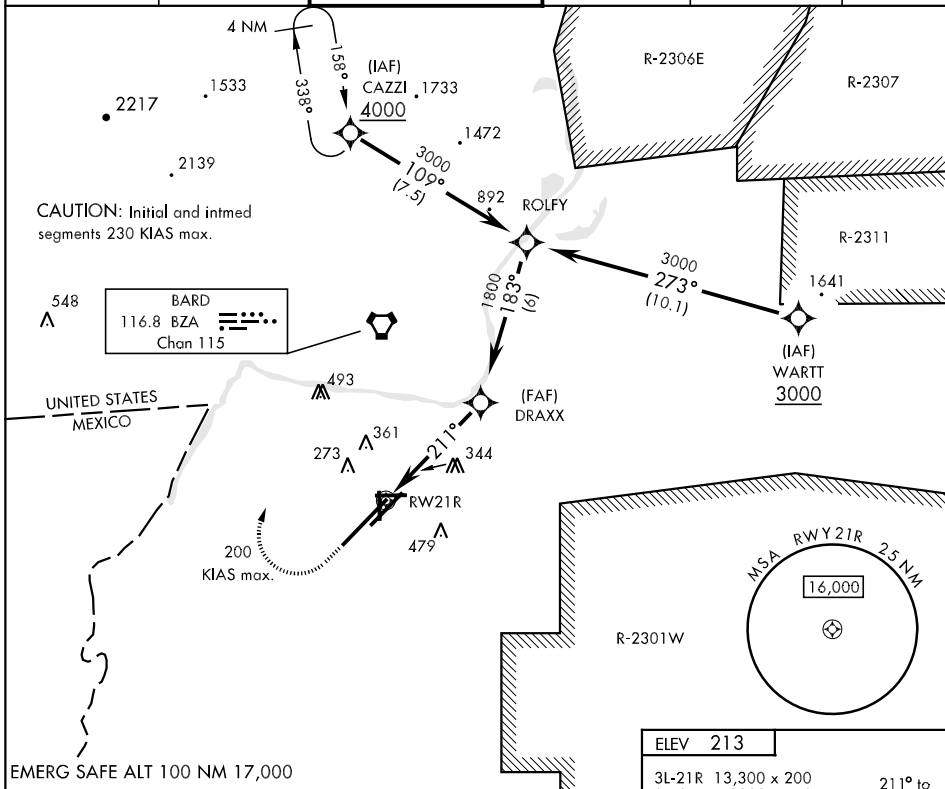
AL-511 [USN]

▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1¼ miles.
DME/DME RNP-0.3 NA.

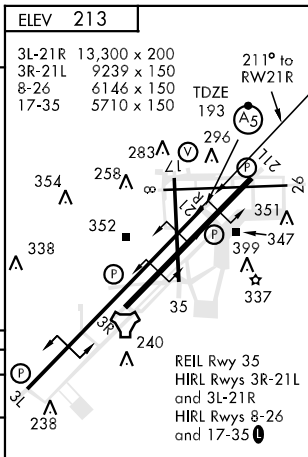


MISSED APPROACH: Climbing right turn to 4000 direct CAZZI and hold. Continue climb in hold to 4000. 200 KIAS max.

ATIS ★	YUMA APP CON	YUMA TOWER ★	GND CON	CLNC DEL	ASR/PAR
118.8 273.2	124.7 374.8	119.3 (CTAF) 0 382.8	121.9 315.7	118.0 336.4	



CATEGORY	A	B	C	D
RNAV MDA*	600-½ 407 (400-½)	600-¾ 407 (400-¾)	600-1 407 (400-1)	600-1½ 407 (400-1½)
CIRCLING	700-1 487 (500-1)	700-1½ 487 (500-1½)	780-2 567 (600-2)	780-2 567 (600-2)



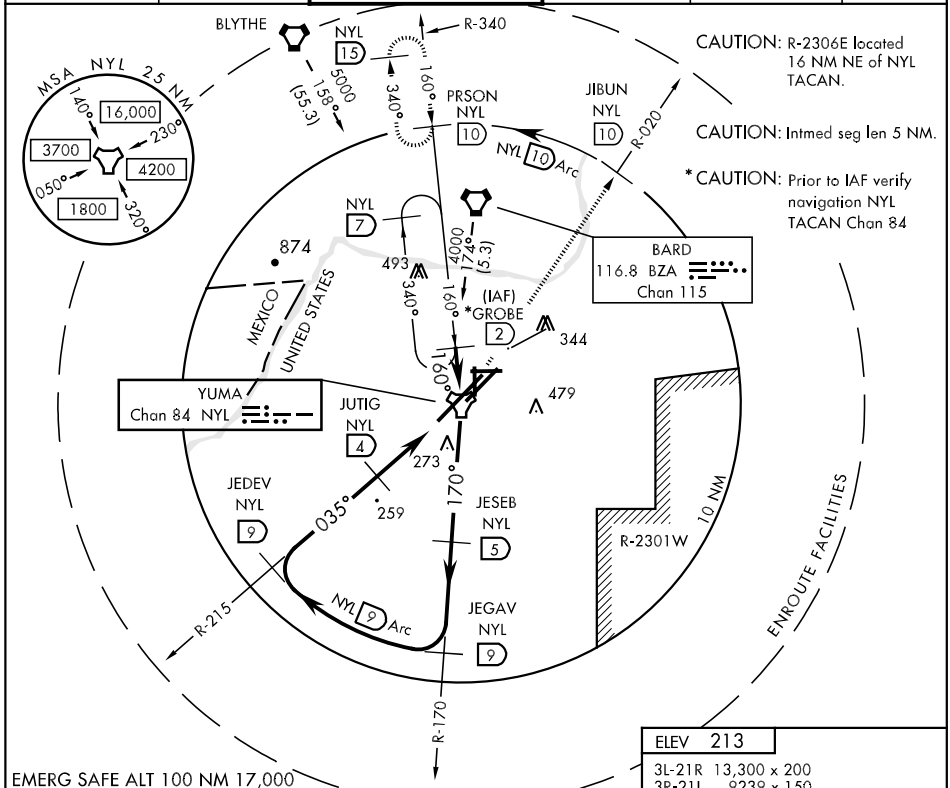
TACAN NYL
Chan **84**APCH CRS
035°Rwy Idg **13,300**
TDZE **195**
Arprt Elev **213**

AL-511 [USN]

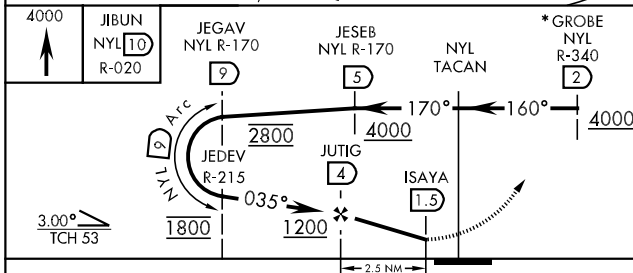
YUMA MCAS/YUMA INTL (KNYL)

MISSED APPROACH: Climb to 4000 via NYL TACAN R-020 to JIBUN,
R-020/10 DME, then arc N on the NYL 10 mile arc to PRSON and hold.ATIS ★
118.8 273.2YUMA APP CON
124.7 374.8YUMA TOWER ★
119.3 (CTAF) 0 382.8GND CON
121.9 315.7CLNC DEL
118.0 336.4

ASR/PAR



EMERG SAFE ALT 100 NM 17,000

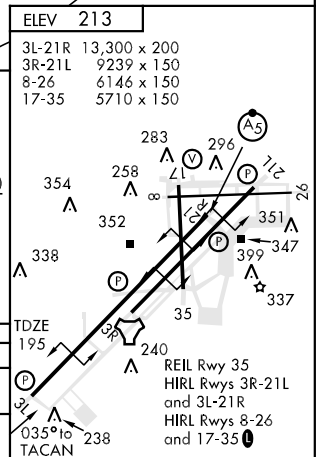


CATEGORY	A	B	C	D
S-3L	540-1	345	(400-1)	540-1½ 345 (400-1½)
CIRCLING	700-1	487 (500-1)	700-1½ 487 (500-1½)	780-2 567 (600-2)

YUMA, ARIZONA

32°39'N-114°36'W

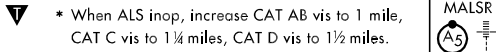
YUMA MCAS/YUMA INTL (KNYL)



TACAN NYL Chan 84	APCH CRS 205°	Rwy Idg 13,300 TDZE 193 Arpt Elev 213
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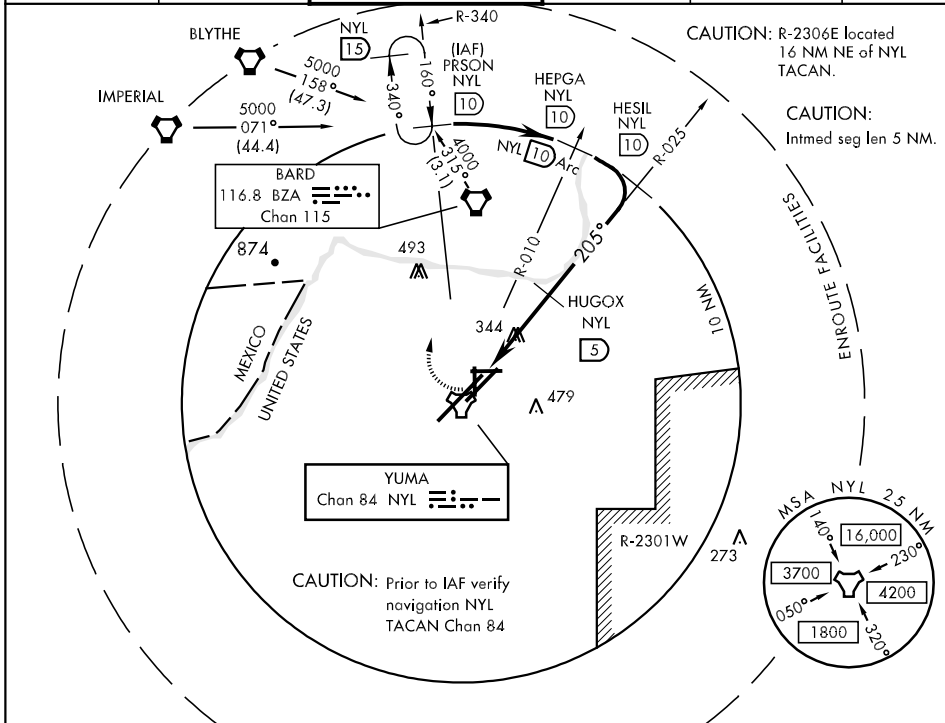
AL-511 [USN]

YUMA MCAS/YUMA INTL (KNYL)

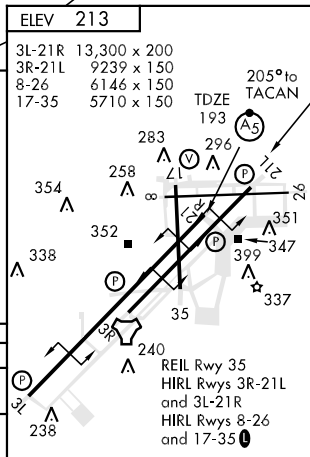
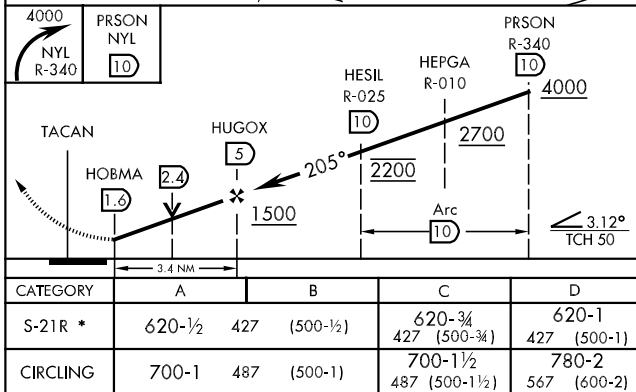


MISSED APPROACH: Climbing right turn to 4000 via NYL TACAN R-340 to PRSON and hold.

ATIS★ 118.8 273.2	YUMA APP CON 124.7 374.8	YUMA TOWER★ 119.3 (CTAF) 0 382.8	GND CON 121.9 315.7	CLNC DEL 118.0 336.4	ASR/PAR
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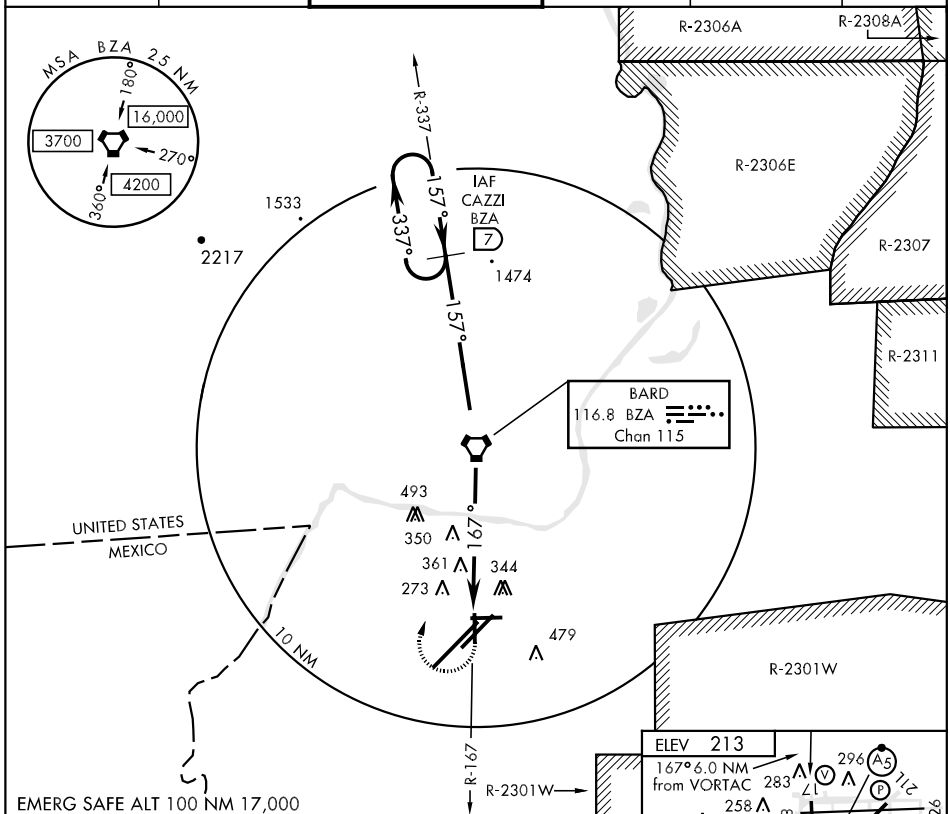
EMERG SAFE ALT 100 NM 17,000



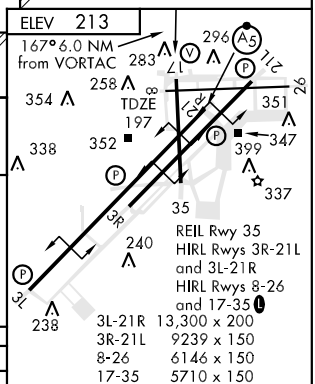
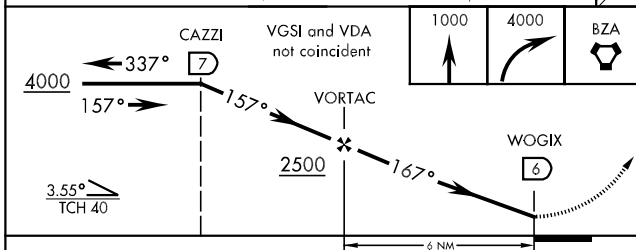
VORTAC BZA 116.8 Chan 115	APCH CRS 167°	Rwy Idg 5710 TDZE 197 Arpt Elev 213	AL-511 [USN]	YUMA MCAS/YUMA INTL (KNYL)
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MISSED APPROACH: Climb to 1000, then climbing right turn to 4000 direct BZA VORTAC and BZA R-337 to CAZZI and hold.

ATIS ★ 118.8 273.2	YUMA APP CON 124.7 374.8	YUMA TOWER ★ 119.3 (CTAF) 0 382.8	GND CON 121.9 315.7	CLNC DEL 118.0 336.4	ASR/PAR
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EMERG SAFE ALT 100 NM 17,000



CATEGORY	A		B		C	D
S-17	680-1	483	(500-1)		680-1¼ 483 (500-1¼)	680-1½ 483 (500-1½)
CIRCLING	700-1	487	(500-1)		700-1½ 487 (500-1½)	780-2 567 (600-2)

FAF to MAP 6.0 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

VORTAC BZA 116.8 Chan 115	APCH CRS 210°	Rwy Idg 13,300 TDZE 193 Arpt Elev 213
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AL-511 [USN]

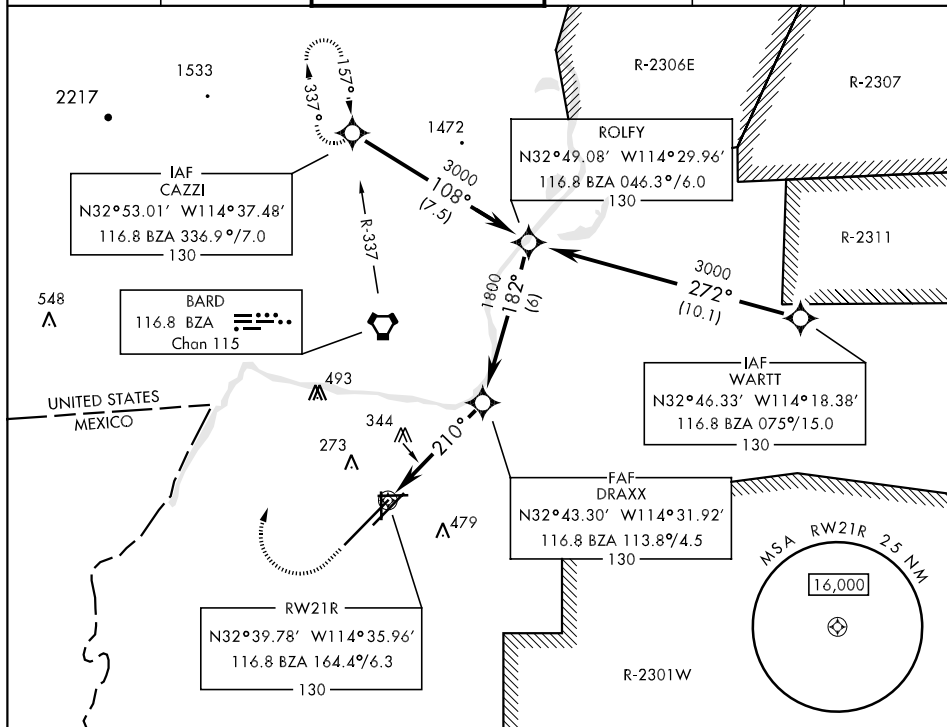
YUMA MCAS/YUMA INTL (KNYL)

▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT C vis to 1 ¼ miles, CAT D vis to 1 ½ miles. DME/DME RNP-0.3 NA.	MALSR A5
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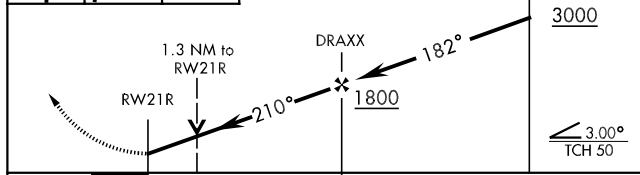
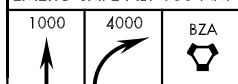
MISSED APPROACH: Climb to 1000, then climbing right turn to 4000 direct BZA VORTAC and track 337° to CAZZI WP and hold.

ATIS ★ 118.8 273.2	YUMA APP CON 124.7 374.8	YUMA TOWER ★ 119.3 (CTAF) 0 382.8	GND CON 121.9 315.7	CLNC DEL 118.0 336.4	ASR/PAR
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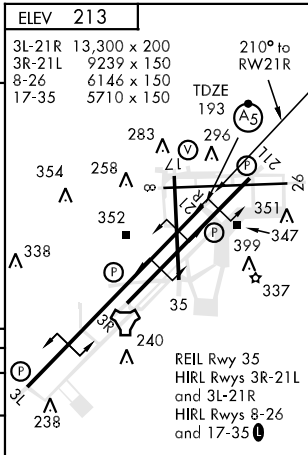
SW-4, 14 JAN 2010 to 11 FEB 2010



EMERG SAFE ALT 100 NM 17,000



CATEGORY	A	B	C	D
S-21R *	660-½ 467 (500-½)	660-¾ 467 (500-¾)	660-1 467 (500-1)	660-1 467 (500-1)
CIRCLING	700-1 487 (500-1)	700-1½ 487 (500-1½)	780-2 567 (600-2)	780-2 567 (600-2)



YUMA, ARIZONA

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

Amdt 2, 09323

VOR/DME RNAV RWY 21R

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ARCATA-EUREKA, CA

ARCATA ILS Rwy 32¹³
 ILS or LOC/DME Rwy 32²³
 RNAV (GPS) Rwy 1³⁴
 RNAV (GPS) Rwy 14³⁵
 RNAV (GPS) Rwy 32³⁵
 VOR/DME Rwy 14³

¹LOC, NA.²ILS, 700-2.³NA when local weather not available.⁴Categories A, B, 1000-2½; Category C, 1000-2¾; Category D, 1000-3.⁵Category D, 800-2¼.

BISHOP, CA

EASTERN SIERRA RGNL LDA/DME Rwy 16¹
 RNAV (GPS) Y Rwy 12²³
 RNAV (GPS) Z Rwy 12²⁴
 VOR or GPS-A, 3300-3⁵
 VOR/DME or GPS-B⁶

¹Categories A,B, 2300-2; Categories C,D, 2300-3.²NA when local weather not available.³Categories A, B 2500-2; Category C, 2500-3.⁴Categories A, B, 2300-2; Category C, 2300-3.⁵NA when Bishop altimeter setting not available.⁶Categories A,B, 3200-2; Categories C,D, 3200-3.

CHICO, CA

CHICO MUNI VOR/DME Rwy 13L
 VOR/DME Rwy 31R

NA when control tower closed except for operators with approved weather reporting service.

CONCORD, CA

BUCHANAN FIELD LDA Rwy 19R
 RNAV (GPS) Rwy 19R¹

NA when control tower closed.

¹Categories A, B, 1000-2; Categories C,D, 1000-3.

NAME ALTERNATE MINIMUMS

CRESCENT CITY, CA

JACK MC NAMARA
 FIELD RNAV (GPS) Rwy 11
 NA when local weather not available.

DAVIS WOODLAND WINTERS, CA

YOLO COUNTY RNAV (GPS) Rwy 16
 RNAV (GPS) Rwy 34
 NA when local weather not available.

FRESNO, CA

FRESNO YOSEMITE
 INTL ILS or LOC/DME Rwy 29R
 LOC Rwy 11L
 VOR/DME or TACAN Rwy 11L
 VOR/DME or TACAN Rwy 29R
 Category E, 900-2¾.

HANFORD, CA

HANFORD MUNI RNAV (GPS) Rwy 32
 VOR-A
 NA when local weather not available.

HAYWARD, CA

HAYWARD
 EXECUTIVE LOC/DME Rwy 28L¹
 RNAV (GPS) Y Rwy 28L²
 RNAV (GPS) Z Rwy 28L²
 VOR or GPS-A³

¹NA when control tower closed.²NA when local weather not available.³Category C, 800-2¼; Category D, 800-2½.

HOLLISTER, CA

HOLLISTER MUNI RNAV (GPS) Rwy 31
 NA when local weather not available.

LIVERMORE, CA

LIVERMORE MUNI ILS Rwy 25R¹
 RNAV (GPS) Rwy 25R

Category D, 800-2¼.

¹NA when control tower closed.

NAME ALTERNATE MINIMUMS
MADERA, CA
MADERA MUNI RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30
NA when local weather not available.

MARYSVILLE, CA
YUBA COUNTY RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
NA when local weather not available.

MERCED, CA
CASTLE ILS or LOC/DME Rwy 31
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
VOR/DME Rwy 31
NA when local weather not available.

MERCED RGNL/MACREADY
FIELD ILS or LOC Rwy 30¹
LOC BC Rwy 12¹
RNAV (GPS) Rwy 30²
VOR Rwy 30²
¹NA when class E airspace not in effect.
²NA when local weather not available.

MODESTO, CA
MODESTO CITY-COUNTY-HARRY
SHAM FIELD ILS or LOC/DME Rwy 28R¹
RNAV (GPS) Rwy 28R
NA when local weather not available.
¹NA when control tower closed.

MONTEREY, CA
MONTEREY
PENINSULA ILS or LOC Rwy 10R¹²
LOC/DME Rwy 28L¹³
RNAV (GPS) Rwy 10L⁴
RNAV (GPS) Y Rwy 10R⁵
RNAV (GPS) Y Rwy 28L⁶
¹NA when control tower closed.
²ILS, Categories A,B,C, 800-2; Category D, 900-2½. LOC, Category D, 900-2½.
³Categories A,B, 1500-2, Categories C,D, 1500-3.
⁴Categories A,B, 1100-2.
⁵Category D 900-2½.
⁶Categories A, B, 1400-2; Category C, 1400-3.

NAME ALTERNATE MINIMUMS
NAPA, CA
NAPA COUNTY LOC Rwy 36L¹
RNAV (GPS) Y Rwy 36L²³
RNAV (GPS) Z Rwy 36L³⁴
VOR Rwy 6⁵

¹NA when control tower closed; Category D, 1200-3.
²Categories A, B, 1600-2; Categories C, D, 1600-3.
³NA when local weather not available.
⁴Category C, 900-2½; Category D, 1200-3.
⁵Category D, 1300-3.

PALO ALTO, CA
PALO ALTO AIRPORT OF
SANTA CLARA COUNTY VOR/DME Rwy 31
NA when control tower closed.

RED BLUFF, CA
RED BLUFF MUNI RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33
VOR Rwy 33
VOR/DME Rwy 15
NA when local weather not available.

REDDING, CA
REDDING MUNI ILS or LOC/DME Rwy 34¹³
LOC/DME BC Rwy 16²³
RNAV (GPS) Rwy 34³
VOR Rwy 34⁴
¹ILS, Categories A, B, C, 700-2; Category E, 900-3. LOC, Category E, 900-3.
²NA when control tower closed.
³NA when local weather not available.
⁴Category C, 800-2½; Category D, 800-2½.

SACRAMENTO, CA
SACRAMENTO
EXECUTIVE ILS or LOC Rwy 2
RNAV (GPS) Rwy 2
VOR Rwy 2
NA when local weather not available.

SACRAMENTO INTL ILS or LOC Rwy 34L
RNAV (GPS) Rwy 16L
RNAV (GPS) Rwy 16R
RNAV (GPS) Rwy 34L
RNAV (GPS) Rwy 34R¹
NA when local weather not available.
¹Category D, 800-2½.

SACRAMENTO MATHER . ILS or LOC Rwy 22L
NA when control tower closed.
Category E, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS
 IFR ALTERNATE AIRPORT MINIMUMS

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NAME ALTERNATE MINIMUMS
BAKERSFIELD, CA

MEADOWS FIELD . ILS or LOC/DME Rwy 30R
VOR/DME Rwy 30R

NA when control tower closed.

NA when local weather not available.

BLYTHE, CA

BLYTHE RNAV (GPS) Rwy 26
VOR/DME-A
VOR/DME Rwy 26

Category D, 900-2½.

BURBANK, CA

BOB HOPE ILS or LOC Z Rwy 8¹
LOC Y Rwy 8²
RNAV (GPS) Y Rwy 8²
VOR Rwy 8³

¹Category D, 700-2.

²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

³Category D, 900-3.

CAMARILLO, CA

CAMARILLO RNAV (GPS) Rwy 8¹
RNAV (GPS) Y Rwy 26¹
RNAV (GPS) Z Rwy 26¹
VOR Rwy 26²

¹NA when local weather not available.

²Categories A, B, 1100-2; Category C, 1100-3.

CARLSBAD, CA

MC CLELLAN-
PALOMAR ILS or LOC Rwy 24¹²
RNAV (GPS) Rwy 24³
VOR-A⁴

¹NA when control tower closed.

²ILS, Categories A,B,700-2; Category C,
800-2¾. LOC, Category C 800-2¾.

³Category D, 800-2¾.

⁴Categories A,B, 1000-2; Category C, 1000-3.

CHINO, CA

CHINO ILS or LOC Rwy 26R
NA when control tower closed.

NAME ALTERNATE MINIMUMS
DAGGETT, CA

BARSTOW-DAGGETT RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 26

NA when local weather not available.

Category B, 900-2; Category C, 1000-2¾;

Category D, 1000-3.

EL MONTE, CA

EL MONTE NDB or GPS-C¹
VOR or GPS-A¹
VOR/DME or GPS-B²

NA when control tower closed.

¹Categories A,B, 1000-2.

²Categories A,B, 1100-2.

FULLERTON, CA

FULLERTON MUNI LOC/DME Rwy 24¹
VOR-A²

¹NA when control tower closed.

²Categories A,B, 1500-2.

HAWTHORNE, CA

HAWTHORNE MUNI LOC Rwy 25
NA when control tower closed.

LA VERNE, CA

BRACKETT FIELD ILS Rwy 26L
LOC Rwy 26L
VOR or GPS-A¹

NA when control tower closed.

¹Category C, 800-2¾.

LANCASTER, CA

GENERAL WILLIAM J. FOX
AIRFIELD VOR-B¹
RNAV (GPS) Rwy 6²

¹Categories A,B, 1000-2; Categories C,D,
1000-3.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

LOMPOC, CA

LOMPOC **RNAV (GPS) Rwy 25¹**
VOR/DME-A²

¹NA when local weather not available.

²Categories A,B, 900-2.

LONG BEACH, CA

LONG BEACH(DAUGHERTY
FIELD) **ILS or LOC Rwy 30¹²**
RNAV (GPS) Z Rwy 30³
VOR or TACAN Rwy 30¹⁴

¹NA when control tower closed.

²ILS, Categories A,B, 900-2; Category C,
900-2½; Category D, 900-2¾. LOC,
Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

³Categories A,B, 900-2¼; Category C, 900-2½;
Category D, 900-2¾.

⁴Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

LOS ANGELES, CA

WHITEMAN **VOR-A**
Categories A,B, 900-2; Category C, 900-2½.
NA when control tower closed.

NEEDLES, CA

NEEDLES **VOR-A**
Category D, 800-2½.

OCEANSIDE, CA

OCEANSIDE MUNI **VOR-A**
Categories A,B, 1200-2.

ONTARIO, CA

ONTARIO INTL **RNAV (GPS) Y Rwy 8L**
RNAV (GPS) Y Rwy 26L
RNAV (GPS) Y Rwy 26R
NA when local weather not available.

OXNARD, CA

ONTARIO INTL **ILS Rwy 25¹**
LOC Rwy 25¹
RNAV (GPS) Rwy 25
NA when local weather not available.
¹NA when control tower closed.

PALM SPRINGS, CA

JACQUELINE COCHRAN
RGNL **VOR-A**
NA when control tower closed.
Categories A,B, 1300-2; Categories C,D,
1300-3.

PALM SPRINGS

INTL **VOR or GPS-B**
Categories A,B, 1900-2; Categories C,D,
1900-3.

NAME ALTERNATE MINIMUMS

PASO ROBLES, CA

PASO ROBLES MUNI **VOR or GPS-A**
Categories A,B, 1300-2; Categories C,D,
1300-3.

RAMONA, CA

RAMONA **RNAV (GPS)-B¹**
RNAV (GPS) Rwy 9²
VOR/DME-A³

NA when local weather not available.

¹Categories A,B, 1400-2; Category C, 1400-3.

²Categories A, B, 900-2; Category C, 900-2½.

³Categories A,B, 1200-2; Category C, 1200-3.

RIVERSIDE, CA

RIVERSIDE MUNI **ILS or LOC Rwy 9¹²**
RNAV (GPS) Rwy 9³⁴
RNAV (GPS) Rwy 27⁵
VOR-A³⁶
VOR-B³⁷
VOR Rwy 9³⁵

¹NA when control tower closed.

²ILS, LOC, Category C, 900-2¾; Category D,
900-2½.

³NA when local weather not available.

⁴Categories A, B, 1000-2; Categories C, D,
1000-3.

⁵Categories A, B, 1300-2; Categories C, D,
1300-3.

⁶Categories A, B, 1500-2; Categories C, D,
1500-3.

⁷Categories A, B, 1200-2; Categories C, D,
1200-3.

SAN DIEGO, CA

BROWN FIELD MUNI ... **RNAV (GPS) Rwy 8L¹**
VOR or GPS-A, 800-2¾²
¹NA when local weather not available.
²NA when control tower closed.

MONTGOMERY

FIELD **ILS or LOC/DME Rwy 28R**
NA when control tower closed.

SAN DIEGO INTL **ILS or LOC Rwy 9**
LOC Rwy 27
RNAV (GPS) Rwy 9

Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2½.

NAME ALTERNATE MINIMUMS

SAN DIEGO(EL CAJON), CA

GILLESPIE FIELD **LOC-D¹²**
RNAV (GPS) Rwy 17³⁴

¹NA when control tower closed.

²Categories A, B, 2400-2; Categories C, D, 2400-3.

³Categories A, B, 1100-2; Category C, 1100-3; Category D, 1200-3.

⁴NA when local weather not available.

SAN LUIS OBISPO, CA

SAN LUIS COUNTY **ILS Rwy 11¹**
VOR or TACAN A²

¹NA when control tower closed.

Categories A,B, 900-2; Category C, 1000-2½; Category D, 1100-3.

²Categories A,B, 1500-2; Categories C,D, 1500-3.

SANTA ANA, CA

JOHN WAYNE AIRPORT-
ORANGE COUNTY **ILS or LOC Rwy 19R¹²**
LDA Rwy 19R³⁴
LOC BC Rwy 1L²
NDB Rwy 19R⁴

¹ILS, Categories A,B,C, 800-2; Category D, 800-2½. LOC, Category D, 800-2½.

²NA when control zone not in effect.

³Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2½.

⁴NA when control tower closed.

SANTA BARBARA, CA

SANTA BARBARA MUNI . **ILS or LOC Rwy 7¹²**
RNAV (GPS) Rwy 7¹³
VOR or GPS Rwy 25⁴

¹NA when local weather not available.

²ILS, Categories A,B, 800-2; Category C,800-2½; Category D, 1000-3. LOC, Category C, 800-2½; Category D, 1000-3.

³Category C, 800-2½; Category D, 1000-3.

⁴Categories A,B, 1000-2; Categories C,D, 1000-3.

NAME ALTERNATE MINIMUMS

SANTA MARIA, CA

SANTA MARIA PUBLIC/CAPTAIN G. ALLEN
HANCOCK FIELD **ILS or LOC Rwy 12¹⁴**
LOC/DME BC-A²⁴
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 30⁶⁷
VOR Rwy 12³⁵

¹ILS, Category C, 700-2; Category D, 1100-3. LOC, Category D, 1100-3.

²Category A,B, 900-2; Category C, 900-2½; Category D, 1100-3.

³Category D, 1100-3.

⁴NA when control tower closed.

⁵NA when control tower closed except for operators with approved weather reporting service.

⁶NA when local weather not available.

⁷Categories A, B, 1400-2; Category C, 1400-3.

SANTA MONICA, CA

SANTA MONICA MUNI **VOR or GPS-A**
Category A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

SANTA YNEZ, CA

SANTA YNEZ **VOR or GPS-B**
Categories A,B, 1300-2.
NA except for operators with approved weather reporting service.

TORRANCE, CA

ZAMPERINI FIELD **ILS or LOC Rwy 29R¹**
VOR or GPS Rwy 11L,900-2²

¹NA when control tower closed.

²NA when control tower closed except for operators with approved weather reporting service.

VAN NUYS, CA

VAN NUYS **ILS Rwy 16R¹**
LDA-C²
VOR-A³⁴

¹NA when control tower closed.

²Categories A, B, 1900-2; Categories C,D, 1900-3.

³Category D, 800-2½.

⁴NA when local weather not available.

VICTORVILLE, CA

SOUTHERN CALIFORNIA
LOGISTICS **ILS or LOC Rwy 17¹**
RNAV (GPS) Rwy 17²
VOR/DME Rwy 17²

NA when local weather not available.

¹LS, Category D, 700-2½; LOC, Category D, 800-2½.

²Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

LEMOORE NAS (KNLC), (REEVES FIELD), CA (Amdt 1, 08045 USN) ELEV **232**

RADAR - (E) 125.95 264.5x 270.8x 301.2x 309.9x 314.0x 336.4x 344.4x 348.75x 363.7x 383.6x 383.9x 

				DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>			
	32L ²	3.0°/40/758	ABCDE	330/16	100	(100-¼)
	14L	3.0°/54/1015	ABCDE	322-½	100	(100-½)
	32R	3.0°/45/853	ABCDE	325/24	100	(100-½)
	14R	3.0°/51/984	ABCDE	331-½	100	(100-½)
PAR W/O GS	14L		ABCDE	500-1¼	278	(300-1¼)
	14R		ABCDE	520-1¼	289	(300-1¼)
	32L ³		ABCDE	540/40	310	(400-¾)
	32R		ABCDE	540/60	315	(400-1¼)
ASR	32L ⁴		AB	540/24	310	(400-½)
			CDE	540/40	310	(400-¾)
	14L		ABCDE	520-1	298	(300-1)
	14R		ABCDE	520-1	289	(300-1)
	32R		ABC	620/50	395	(400-1)
			DE	620/60	395	(400-1¼)
CIR	All Rwys ⁵		A	680-1	448	(500-1)
			B	700-1	468	(500-1)
			C	700-1½	468	(500-1½)
			DE	800-2	568	(600-2)

¹No-NOTAM MP: PAR-Rwy 14R-32L 1600-2400Z++ Mon, Rwy 14L-32R 1600-2400Z++ Wed.

²When ALS inop, increase CAT ABCDE RVR to 24 and vis to ½ mile. ³When ALS inop, increase CAT ABCDE RVR to 60 and vis to 1¼ miles. ⁴When ALS inop, increase CAT ABCDE RVR to 50 and vis to 1 mile. ⁵CIR from PAR W/O GS Rwy 14L, 14R and 32R, increase vis CAT AB to 1¼ miles.

CAMP PENDLETON MCAS (MUNN FLD)(KNFG), CA (Oceanside)

(07158 USN)

ELEV 78

RADAR - (E) 281.7 338.1   **NA**

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR	21 ¹²⁵	3.5°/49/843	ABCD	438-¾	360	(400-¾)
W/O GS	21 ⁵⁶		ABC D	520-1 520-1¼	442 442	(500-1) (500-1¼)
ASR	21 ³		A B C D	900-¾ 900-1 900-2¼ 900-2½	822 822 822 822	(900-¾) (900-1) (900-2¼) (900-2½)
CIR	All Rwy ⁴		A B C D	960-1¼ 1080-1½ 1180-3 1200-3	882 1002 1102 1122	(900-1¼) (1100-1½) (1200-3) (1200-3)

¹CAUTION: Trees penetrate obstacle surfaces within the visual portion of the procedure approximately 900' from threshold. Pilots must have trees in sight prior to descending from decision height. ²When ALS inop, increase vis CAT ABCD to 1 mile. ³When ALS inop, increase vis CAT A to 1 mile, CAT B to 1¼ miles, CAT C to 2½ miles and CAT D to 2¾ miles. ⁴Circling auth fr ASR and PAR W/O GS only. Circling Rwy 3 not auth at night. ⁵No-NOTAM prevent main sked: PAR 2100-0100Z++Mon. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT D to 1½ miles.

LOS ALAMITOS AAF (KSLI), CA (1-Amdt 5, 2-Amdt 2, 3-Orig 08101 USA) ELEV 32

RADAR¹² - (E) 124.75 127.95 279.5 285.55 290.9   **NA**

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
RADAR 1						
PAR	22L ³	3.0°/40/745	ABCD	282-¾	250	(300-¾)
PAR W/O GS	22L ⁴⁵		ABC D	420-¾ 420-1	388 388	(400-¾) (400-1)
RADAR 2						
PAR	22L	4.0°/40/572	COPTER	235-¼	200	(200-¼)
RADAR 3						
ASR	22L ⁴⁵		AB CD	440-¾ 440-1	408 408	(500-¾) (500-1)
CIR	22L ⁴		A B C D	440-1 500-1 500-1½ 600-2	408 468 468 568	(500-1) (500-1) (500-1½) (600-2)

¹PAR opr 1600-0000Z++ Mon, 1500-0600Z++ Tue-Thu, 2200-0600Z++ Fri. ²Multiple PAR apch avbl during VFR ctc twr for freq assn. ³When ALS inop, increase CAT CD vis to 1 mile. ⁴Circling NA N of Rwy 4L-22R. ⁵When ALS inop, increase vis all CATs ¼ mile.

MIRAMAR MCAS (MITSCHER FLD) (KNKX), CA (09351 USN) ELEV 477
RADAR¹ - (E) 133.625 266.8x 270.35 307.9x 328.4x 348.75 350.275 373.575 379.125 380.3x

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR	24R ²	3.0°/53/1133	ABCDE	575-¼	100	(100-¼)
	24L	3.0°/46/1032	ABCDE	577-½	100	(100-½)
PAR w/o GS ⁵						
	24R ³		AB	820-½	345	(400-½)
			CDE	820-¾	345	(400-¾)
	24L		ABC	820-1	343	(400-1)
			DE	820-1¼	343	(400-1¼)
ASR	24R ⁴		AB	880-½	405	(500-½)
			CD	880-¾	405	(500-¾)
			E	880-1	405	(500-1)
	6L		ABC	800-1	368	(400-1)
			DE	800-1¼	368	(400-1¼)
	24L		AB	880-1	403	(500-1)
			CD	880-1¼	403	(500-1¼)
			E	880-1½	403	(500-1½)
CIR ⁶	All Rwy		A	920-1	443	(500-1)
			B	940-1	463	(500-1)
			C	940-1½	463	(500-1½)
			D	1160-2¼	683	(700-2¼)
			E	1360-3	883	(900-3)

¹Other APP CON freq as asgn.

²When ALS inop, increase vis CAT ABCDE to ½ mile.

³When ALS inop, increase vis CAT ABC to 1 mile, CAT DE to 1¼ miles.

⁴When ALS inop, increase vis CAT AB to 1 mile, CAT CD to 1¼ miles, CAT E to 1½ miles.

⁵No NOTAM MP: PAR 1700-2200Z++ Tue.

⁶Circling not authorized to Rwy 10-28. CAT E circling not authorized S of Rwy 6R-24L.

NORTH ISLAND NAS (KNZY), (HALSEY FIELD), CA (San Diego) (09127USN) ELEV 26

RADAR - (E) 127.7x 133.175x 319.9x 350.8x 353.5x 382.0x 385.5x 

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR ¹	29 ³	3.0°/36/730	ABCDE	276-¾	250	(300-¾)
	36 ⁶	3.0°/46/850	ABCDE	119-¼	100	(100-¼)
(OFFSET)	29 ⁸	3.0°/36/730	ABCDE	620-2	594	(600-2)
PAR W/O GS ¹	29 ²⁴		AB	460-½	434	(500-½)
			CD	460-¾	434	(500-¾)
			E	460-1	434	(500-1)
PAR W/O GS ¹	36		ABC	380-1	361	(400-1)
			DE	380-1¼	361	(400-1¼)
PAR W/O GS ¹ (OFFSET)	29 ²		ABCDE	620-2	594	(600-2)
ASR	29 ²⁵		AB	540-½	514	(600-½)
			C	540-1	514	(600-1)
			DE	540-1¼	514	(600-1¼)
	36 ⁷		A	800-¾	781	(800-¾)
			B	800-1	781	(800-1)
			C	800-2	781	(800-2)
			D	800-2¼	781	(800-2¼)
			E	800-2½	781	(800-2½)
(OFFSET)	29 ²		ABCDE	620-2	594	(600-2)
CIR	29 ²		AB	620-2	594	(600-2)
			CDE	NOT AUTHORIZED		
	36		ABCDE	NOT AUTHORIZED		

¹No-NOTAM MP sked 2000-2400Z++ Mon. ²Cir auth to Rwy 18 only. Cir not auth W Rwy 18-36.

³When ALS inop, increase vis CAT ABCDE to 1 mile. ⁴When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁵When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1½ miles, CAT DE to 1¾ miles. ⁶When ALS inop, increase vis CAT ABCDE to ½ mile. ⁷When ALS inop, increase vis CAT A to 1 mile, CAT B to 1¼ mile, CAT C to 2¼ mile, CAT D to 2½ mile, CAT E 2¾ mile. ⁸Minima applicable for rotorcraft short offset approaches.

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD), CA

(Oxnard) (09267 USN)

ELEV 12

RADAR⁷ - (E) 123.75x 133.25 233.7x 269.225 350.25 353.925 ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR	3 ²	3.0°/47/901	ABCDE	111-¼	100	(100-¼)
	21	3.0°/47/891	ABCDE	113-½	100	(100-½)
PAR	21(altn MAP) ⁴	3.0°/47/891	ABCDE	650-1¼	637	(700-1¼)
PAR W/O GS	3 ⁵		ABCDE	300-1	289	(300-1)
	21 ⁶		ABCDE	360-¾	347	(400-¾)
	21(altn MAP) ⁴		ABCDE	440-1¼	427	(500-1¼)
ASR	3 ³		ABC	380-¾	369	(400-¾)
			DE	380-1	369	(400-1)
	21 ³		AB	380-½	367	(400-½)
			CDE	380-¾	367	(400-¾)
ASR	21(altn MAP) ⁶		ABCDE	440-1½	427	(500-1½)
CIR ¹	3,21		A	420-1	407	(500-1)
			B	480-1	467	(500-1)
			C	480-1½	467	(500-1½)
			D	580-2	567	(600-2)
			E	NOT AUTHORIZED		

ATC Missed apch climb rate to 1500

	Knots	60	120	180	240	300	360
PAR 3	FPM	330	660	990	1320	1650	1980

Expanded RADAR svc-All flt conducted under positive ctl. Inbd acft not opr under ATC or PLEAD ctc APP CON 25 NM out on 307.275 or 128.65.

¹Circling not authorized E of Rwy 3-21, with PAR approach, or when Alternate MAP Rwy 21 in use.

²When ALS inop, increase vis CAT ABCDE to ½ mile. ³When ALS inop, increase vis CAT ABC to 1 mile, CAT DE to 1¼ miles. ⁴When ALS inop, increase vis CAT ABCDE to 2¼ miles. ⁵When ALS inop, increase vis CAT ABCDE to 1¼ miles. ⁶When ALS inop, increase vis CAT ABCDE to 2 miles.

⁷No-NOTAM preventive maint 1400-1800Z++ Mon.

SAN CLEMENTE ISLAND NALF (KNUC), (FREDERICK SHERMAN FIELD), CA

RADAR - (E) 127.05x 305.3x ▽

(09071 USN)

ELEV 184

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	23	3.0°/40/939	ABCDE	434-1	250	(300-1)
PAR ¹	W/O GS 23		ABCDE	520-1¼	336	(400-1¼)
ASR ²	23		AB	780-1	596	(600-1)
			C	780-1½	596	(600-1½)
			D	780-1¾	596	(600-1¾)
			E	780-2	596	(600-2)
CIR ³	W/O GS All Rwy		A	540-1¼	356	(400-1¼)
			B	640-1¼	456	(500-1¼)
			C	640-1½	456	(500-1½)
			DE	740-2	556	(600-2)
CIR ³	All Rwy		AB	780-1	596	(600-1)
			C	780-1½	596	(600-1½)
			DE	780-2	596	(600-2)

¹No-NOTAM MP PAR 1800-2000Z++ Tue. ²No-NOTAM MP ASR 2000-2200Z++ Tue.

³Circling not authorized S of Rwy 5-23

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

ALTURAS, CA

ALTURAS MUNI (AAT)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use BACHS DEPARTURE.

AMEDEE AAF (KAHC),

HERLONG, CA. AMDT 1, 09239

Rwy 8, 26: 4000-3 for climb in visual conditions.

Rwy 8, 26: Cross Amedee AAF at or above 7900 before proceeding on course.

NAME TAKE-OFF MINIMUMS

ARCATA-EUREKA, CA

ARCATA

TAKE-OFF MINIMUMS: **Rwy 1**, std. w/ a min. climb of 429' per NM to 1900. **Rwy 14**, 600-2¼ or std. w/ a min. climb of 486' per NM to 1000'.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn thence..., or for climb in visual conditions: cross Arcata Airport westbound at or above 1100, thence... **Rwys 14, 19**, climbing right turn thence... **Rwy 32**, climbing left turn thence...

...via ACV R-250 to HOCUT INT and continue climb to MEA on V27.

NOTE: **Rwy 1**, multiple trees beginning 182' from departure end of runway, 11' right of centerline, up to 161' AGL/370' MSL. Multiple trees beginning 281' from departure end of runway, 86' left of centerline, up to 148' AGL/357' MSL. **Rwy 14**, multiple trees beginning 838' from departure end of runway, 372' left of centerline, up to 200' AGL/759' MSL. Multiple trees beginning 1286' from departure end of runway, 716' right of centerline, up to 65' AGL/286' MSL. **Rwy 19**, multiple trees beginning 57' from departure end of runway, 270' right of centerline, up to 30' AGL/218' MSL. **Rwy 32**, multiple trees beginning 113' from departure end of runway, 211' right of centerline, up to 86' AGL/267' MSL. Multiple trees 1' from departure end of runway, 161' left of centerline, up to 21' AGL/202' MSL. Obstruction light 426' from departure end of runway, 257' right of centerline, 21' AGL/202' MSL.

AUBURN, CA

AUBURN MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, CAT A,B 600-2 or std. with a min. climb of 350' per NM to 2300. CAT C,D NA. **Rwy 25**, CAT A,B 300-1 or std. with a min. climb of 390' per NM to 1700. CAT C,D NA.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn to 3000 heading 305°, intercept MYV R-089 to MYV VOR/DME, then via assigned routing. **Rwy 25**, climb runway heading to 3000, intercept and proceed via MYV R-098 to MYV VOR/DME, then via assigned heading.

BEALE AFB (KBAB)

MARYSVILLE, CA.ORIG, 09155

DEPARTURE PROCEDURE: **Rwy 15**, Climb on a heading between 100° CW to 325° from DER. **Rwy 33**, Climb on a heading between 146° CW to 344° from DER.

TAKE-OFF OBSTACLES: **Rwy 33**, Terrain 118' MSL, 62' from DER, 500' right of centerline. Terrain 119' MSL, 190' from DER, 551' right of centerline.

BECKWOURTH, CA

NERVINO

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 7, 25**, for climb in visual conditions: cross Nervino Airport at or above 8300 before proceeding on course.

NOTE: **Rwy 7**, road 58' from departure end of runway, 469' right of centerline, 15' AGL/4920' MSL. Pole 310' from departure end of runway, 522' right of centerline, 49' AGL/4925' MSL. Pole 528' from departure end of runway, 522' right of centerline, 39' AGL/4924' MSL. Tree 1.47 NM from departure end of runway, 727' right of centerline, 100' AGL/5193' MSL. Tree 1.9 NM from departure end of runway, 2534' right of centerline, 100' AGL/5499' MSL. Bush 2.03 NM from departure end of runway, 2126' right of centerline, 4' AGL/5406' MSL. **Rwy 25**, tree 5856' from departure end of runway, 1984' right of centerline, 100' AGL/5339' MSL. Tree 1.25 NM from departure end of runway, 2439' right of centerline, 100' AGL/5420' MSL. Tree 2.07 NM from departure end of runway, 3302' left of centerline, 100' AGL/5570' MSL.

BISHOP, CA

EASTERN SIERRA RGNL

TAKE-OFF MINIMUMS: **Rwys 7, 12, 16**, NA. **Rwys 25, 30, 34**, 4000-2 or std. with a min. climb of 350' per NM to 9000.

DEPARTURE PROCEDURE: **Rwys 25, 30**, turn right.

Rwy 34, turn left, climb northwestbound to 13000 via BIH R-322 to NIKOL Int.

BYRON, CA

BYRON

TAKE-OFF MINIMUMS: **Rwy 23**, NA-obstacles.

Rwy 30, 200-1 or std. with a min. climb of 240' per NM to 300. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via heading 120° and ECA VORTAC before proceeding on course. **Rwy 12**, climbing left turn via heading 050° and ECA VORTAC R-250 to ECA VORTAC before proceeding on course. **Rwy 30**, climbing right turn via heading 130° and ECA VORTAC R-250 to ECA VORTAC before proceeding on course.

NOTE: **Rwy 5**, bush 17' from departure end of runway, 67' right of centerline, 6' AGL/52' MSL. **Rwy 12**, multiple trees and bush beginning 240' from departure end of runway, 286' right of centerline, up to 39' AGL/76' MSL. **Rwy 30**, multiple poles, building, and terrain beginning 66' from departure end of runway, 228' left of centerline, up to 65' AGL/225' MSL. Multiple poles beginning 949' from departure end of runway, 28' right of centerline, up to 42' AGL/103' MSL.

CHICO, CA

CHICO MUNI

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. **All aircraft**, climb via CIC R-205 to JINGO Int. Aircraft departing JINGO Int 020° CW 350° climb on course. All others climb in JINGO Int holding pattern (SE, right turns, 320° inbound) to depart JINGO Int at or above 2800.

CLOVERDALE, CA

CLOVERDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2 or std. with a min. climb of 280' per NM to 1500, then a min. climb of 260' per NM to 3900. **Rwy 32**, NA.

DEPARTURE PROCEDURE: **Rwy 14**, climb direct STS VOR/DME. Continue climb in holding pattern (NW right turns, 140° inbound) to MEA for route of flight.

NOTE: **Rwy 14**, tree 9337' from departure end of runway, 4633' right of centerline, 150' AGL/889' MSL.

COLUMBIA, CA

COLUMBIA

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 with a min. climb rate of 300' per NM to 3000. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use FICHU RNAV DEPARTURE. **Rwy 35**, NA.

NOTE: **Rwy 17**, 51' AGL pole 502' from departure end of runway, 368' right of centerline, 90' AGL tree 483' from departure end of runway, 535' right of centerline; 100' AGL tree 1258' from departure end of runway, 494' left of centerline; 167' AGL tree 1644' from departure end of runway, 924' right of centerline.

COLUSA, CA

COLUSA COUNTY

DEPARTURE PROCEDURE: Climb direct to ILA VORTAC.

CONCORD, CA

BUCHANAN FIELD (CCR)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1L/R**, std. w/ min. climb of 360' per NM to 1100, or 2200-3 for climb in visual conditions. **Rwys 14L/R**, std. w/ min. climb of 420' per NM to 2700, or 2200-3 for climb in visual conditions. **Rwys 19L/R**, std. w/ min. climb of 490' per NM to 4000, or 2200-3 for climb in visual conditions. **Rwys 32L/R**, std. w/ min. climb of 320' per NM to 500, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 1L/R**, climb direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence... **Rwys 14L/R, 19L/R** climbing left turn direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence... **Rwys 32L/R**, climbing right turn direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence...

...aircraft departing CCR VOR/DME R-150 clockwise R-110 climb on course. All others climb in CCR VOR/DME holding pattern (north, left turns, 191° inbound) to cross CCR VOR/DME at or above 2700 before proceeding on course.

NOTE: **Rwy 1L**, multiple trees and bushes beginning 675' from departure end of runway, 9' left of centerline, up to 48' AGL/98' MSL. Multiple poles, light poles and antennas on buildings beginning 639' from departure end of runway, 120' left of centerline, up to 50' AGL/72' MSL. Fence 117' from departure end of runway, 2' right of centerline, 12' AGL/29' MSL. Sign 1996' from departure end of runway, 812' left of centerline, 45' AGL/78' MSL. Flagpole 1520' from departure end of runway, 753' left of centerline, 40' AGL/71' MSL. **Rwy 1R**, multiple trees and poles beginning 1552' from departure end of runway, 98' right of centerline, up to 52' AGL/131' MSL. **Rwy 19R**, multiple trees beginning 604' from departure end of runway, 82' left of centerline, up to 70' AGL/108' MSL. Light pole 1392' from departure end of runway, 749' right of centerline, 51' AGL/71' MSL. Obstruction light on building 2451' from departure end of runway, 911' left of centerline, 73' AGL/97' MSL. Fence 123' from departure end of runway, 503' left of centerline, 6' AGL/30' MSL. **Rwy 19L**, multiple trees beginning 2132' from departure end of runway, 28' left of centerline, up to 70' AGL/106' MSL. **Rwy 32L**, road/vehicle 561' from departure end of runway, on centerline, 15' AGL/49' MSL. Light on tank 6617' from departure end of runway, 1926' right of centerline, 114' AGL/213' MSL. Hangar 259' from departure end of runway, 300' left of centerline, 21' AGL/37' MSL. Transmission tower 6015' from departure end of runway, 1338' left of centerline, 145' AGL/173' MSL. Tree 825' from departure end of runway, 136' left of centerline, 25' AGL/40' MSL, building 633' from departure end of runway, 254' right of centerline, 20' AGL/35' MSL.

BUCHANAN FIELD (CON'T)

Rwy 32R, train 6345' from departure end of runway, 1948' left of centerline, 23' AGL/102' MSL, obstruction light on hopper 2110' from departure end of runway, 601' right of centerline, 79' AGL/99' MSL. Obstacle light on tank 6617' from departure end of runway, 1426' right of centerline, 193' AGL/213' MSL. Flagpole 655' from departure end of runway, 300' right of centerline, 35' AGL/43' MSL. Sign 697' from departure end of runway, 248' right of centerline, 25' AGL/41' MSL. Road/vehicle 561' from departure end of runway, on centerline, 15' AGL/49' MSL. Building 633' from departure end of runway, 246' left of centerline, 20' AGL/35' MSL, tree 825' from departure end of runway, 635' left of centerline, 25' AGL/40' MSL, transmission tower 6015' from departure end of runway, 1839' left of centerline, 145' AGL/173' MSL. **Rwy 14R**, obstacle lights, obstacle lights on buildings, obstacle lights on windsocks, buildings and trees beginning 412' from departure end of runway, 167' right of centerline, up to 104' AGL/136' MSL. **Rwy 14L**, multiple trees beginning 841' from departure end of runway, 61' left of centerline, up to 78' AGL/102' MSL, building 1071' from departure end of runway, 35' left of centerline, 30' AGL/58' MSL. Fence 225' from departure end of runway, 29' left of centerline, 12' AGL/33' MSL.

CRESCENT CITY, CA

JACK MCNAMARA FIELD

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1. **Rwy 17**, 300-1 or std. with a min. climb of 240' per NM to 300.

DEPARTURE PROCEDURE: **Rwys 11, 17**, climbing right turn. **Rwys 29, 35**, climbing left turn. All aircraft, climb direct CEC VORTAC. Aircraft departing CEC R-131 CW R-330 climb on course. All others continue climb in CEC holding pattern (S, left turns, 341° inbound) to cross CEC VORTAC at or above: R-331 CWR-010, 1100; R-011 CWR-050, 2200; R-051 CWR-090, 4100; R-091 CWR-130, 2700.

DAVIS, CA

UNIVERSITY (EDU)

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via heading 200° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course. **Rwy 35**, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

NOTE: **Rwy 17**, trees beginning 1353' from DER, 31' right of centerline, up to 40' AGL/109' MSL. **Rwy 35**, tree 24' from DER, 433' left of centerline, 40' AGL/104' MSL. Vehicle 288' from DER, on centerline, 15' AGL/74' MSL.

DAVIS/WOODLAND/WINTERS, CA

YOLO COUNTY (DWA)
AMDT 1 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 164° to 2100 before turning right. **Rwy 34**, climb heading 344° to 1500 before turning left.

NOTE: **Rwy 16**, multiple trees beginning 595' from DER, 308' right of centerline, up to 120' AGL/206' MSL. Multiple trees beginning 1046' from DER, 257' left of centerline, up to 120' AGL/195' MSL. **Rwy 34**, multiple trees beginning 417' from DER, 361' right of centerline, up to 120' AGL/206' MSL. Trees beginning 683' from DER, 491' left of centerline, up to 120' AGL/206' MSL. Pole 859' from DER, 548' left of centerline, 47' AGL/137' MSL.

EUREKA, CA

MURRAY FIELD (EKA)
AMDT 4 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 465' per NM to 1800 or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12** climbing right turn heading 265° to intercept V27. For climb in visual conditions: cross Eureka airport at or above 3700 before proceeding on course. **Rwy 30**, climbing left turn heading 265° to intercept V27.

NOTE: **Rwy 12**, bush 50' from DER, 82' left of centerline, 6' AGL/16' MSL. Multiple trees beginning 1.5 NM from DER, 2993' left of centerline. Multiple trees beginning 1.6 NM from DER, 2318' right of centerline. **Rwy 30**, multiple trees, beginning 443' from DER, 389' right of centerline, up to 93' AGL/103' MSL. Tree 664' from DER, 587' left of centerline, 46' AGL/56' MSL. Pole 753' from DER, 155' right of centerline 27' AGL/ 37' MSL. Railroad 786' from DER, 4' left of centerline 23' AGL/31' MSL. Road beginning 602' from DER, 4' left of centerline up to 15' AGL/23' MSL. Bush 566' from DER, 69' left of centerline, 8' AGL/18' MSL.

FIREBAUGH, CA

FIREBAUGH

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn. **Rwy 30**, climbing left turn. **All aircraft** climb via heading 150° and PNXN R-061 to MENDO Int. Aircraft departing MENDO Int, heading 230° CW 150° climb on course. All others climb in MENDO holding pattern (NE, right turns, 241° inbound) to cross MENDO Int at or above 2000.

FORTUNA, CA

ROHNERVILLE

TAKE-OFF MINIMUMS: **Rwy 11**, NA.

DEPARTURE PROCEDURE: Climb direct FOT VORTAC. Continue climb in holding pattern (N, right turns, 161° inbound) to cross FOT VORTAC at or above 3000.

FRESNO, CA

FRESNO-CHANDLER EXECUTIVE (FCH)
AMDT 2 09015 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 111° to 2000 then climbing right turn to 6300 via heading 200° and CZQ VORTAC R-167 before proceeding on course. **Rwy 30**, climb heading 291° to 2000 then climbing left turn to 5500 via heading 140° and CZQ VORTAC R-167 before proceeding on course.

NOTE: **Rwy 12**, multiple trees, poles, and terrain beginning 84' from departure end of runway, 16' left of centerline, up to 92' AGL/371' MSL. Multiple trees, poles, road, fence and terrain beginning 53' from departure end of runway, 94' right of centerline, up to 62' AGL/341' MSL. **Rwy 30**, multiple trees, poles, bushes and terrain beginning 125' from departure end of runway, 46' left of centerline, up to 111' AGL/389' MSL. Multiple poles, road, and fence beginning 236' from departure end of runway, 23' right of centerline, up to 42' AGL/320' MSL.

FRESNO YOSEMITE INTL

DEPARTURE PROCEDURE: **Rwys 11L, 11R**, climbing left turn direct CZQ VORTAC. **Rwys 29L, 29R**, climbing right turn direct CZQ VORTAC. All aircraft climb in CZQ VORTAC holding pattern (SE, left turns, 322° inbound) to cross CZQ VORTAC at or above MEA/ MCA for direction of flight before proceeding en route.

NOTE: **Rwy 11L**, pole 647' from departure end of runway, 543' left of centerline, 17' AGL/349' MSL. Sign 1693' from departure end of runway, 863' right of centerline, 53' AGL/383' MSL. **Rwy 11R**, transmissometer 432' from departure end of runway, 281' left of centerline, 19' AGL/ 349' MSL. Light, 1701' from departure end of runway, 293' right of centerline, 53' AGL/386' MSL. **Rwy 29L**, arresting sys, 124' from departure end of runway, 527' right of centerline, 2' AGL/334' MSL. Building 219' from departure end of runway, 296' left of centerline, 7' AGL, 336' MSL. **Rwy 29R**, trees 1076' from departure end of runway, 775' right of centerline, 63' AGL/397' MSL. Arresting sys, 95' from departure end of runway, 149' right of centerline, 3' AGL/336' MSL. Multiple trees beginning 1076' from departure end of runway, 775' right of centerline, up to 75' AGL/397' MSL.

GRASS VALLEY, CA

NEVADA COUNTY AIR PARK

TAKE-OFF MINIMUMS: **Rwy 7**, NA.

DEPARTURE PROCEDURE: **Rwy 25**, climb via MYV R-058 to 6000 then continue climb on course.

GROVELAND, CA

PINE MOUNTAIN LAKE

TAKE-OFF MINIMUMS: **Rwy 9**, 400-2 or std. with a min. climb of 400' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 9**, turn right.

Rwy 27, turn left. **All aircraft** climb direct LIN VORTAC. Cross LIN VORTAC at or above 5000.

HALF MOON BAY, CA

HALF MOON BAY

TAKE-OFF MINIMUMS: **Rwy 12**, 2600-2 or std. with a min. climb of 300' per NM to 3000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 3000, then climb direct OSI VORTAC, to cross OSI VORTAC at or above 3500 before proceeding on course.

HANFORD, CA**HANFORD MUNI**

DEPARTURE PROCEDURE: **Rwy 14**, climbing left turn heading 050° to intercept V-23. **Rwy 32**, climbing right turn heading 050° to intercept V-23.

HAYWARD, CA**HAYWARD EXECUTIVE**

TAKE-OFF MINIMUMS: **Rwys 10L, 10R**, 300-1.

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, climb straight ahead. **Rwys 10L, 10R**, turn right, climb to 2500 via direct OAK VORTAC and OAK R-288. Aircraft southeastbound and capable of climbing 250' per NM to 4500 may proceed direct to MABRY Int via OAK R-114.

HOLLISTER, CA**HOLLISTER MUNI (CVH)****AMDT 1 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6**, NA-obstacles. **Rwy 24**, NA-ATC. **Rwy 13**, std. w/ min. climb of 391' per NM to 3500, or 3100-3 for climb in visual conditions. **Rwy 31**, std. w/ min climb of 209' per NM to 2300, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn to heading 332° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course. **Rwy 31**, climb heading 307° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.

NOTE: **Rwy 13**, terrain beginning 992' from departure end of runway, 348' left of centerline, up to 289' MSL. Terrain beginning 2467' from departure end of runway, 154' right of centerline, up to 309' MSL, trees beginning 1277' from departure end of runway, 348' left of centerline, up to 309' MSL, trees beginning 2467' from departure end of runway, 153' right of centerline, up to 270' MSL. **Rwy 31**, terrain beginning 76' from departure end of runway, 392' left of centerline, up to 247' MSL. Terrain beginning 14' from departure end of runway, 179' right of centerline, up to 231' MSL.

JACKSON, CA**WESTOVER FIELD AMADOR COUNTY**

DEPARTURE PROCEDURE: **Rwy 1**, turn left. **Rwy 19**, turn right. All aircraft climb direct LIN VORTAC, continue climb on course.

LAKEPORT, CA**LAMPSON FIELD**

TAKE-OFF MINIMUMS: **Rwy 10**, 1700-3 or std. with a min. climb of 610' per NM to 3200. **Rwy 28**, 1500-3 or std. with a min. climb of 620' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn to heading 275°. **Rwy 28**, climbing right turn to heading 035°. Intercept and climb northwestbound via the LOP NDB 336° bearing to 4000, then climbing left turn direct ENI VORTAC. Cross ENI VORTAC at or above 6000.

LEMOORE NAS (REEVES FIELD) (KNLC)**LEMOORE, CA 07270**

Rwy 14L, Cross DER at or above 15' AGL/235' MSL.

Rwy 14R, Cross DER at or above 15' AGL/245' MSL.

Rwy 32L, Cross DER at or above 15' AGL/234' MSL,

Departure headings 142° CW 283°, minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.

Rwy 32R, Cross DER at or above 15' AGL/239' MSL,

Departure headings 142° CW 281° minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.

LINCOLN, CA**LINCOLN RGNL/KARL HARDER FIELD**

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn. **Rwy 33**, climbing left turn. All aircraft climb direct MYV VOR/DME, then climb on course.

LIVERMORE, CA**LIVERMORE MUNI**

TAKE-OFF MINIMUMS: **Rwys 7L, 7R**, 1500-2 or std. with a min. climb of 260' per NM to 2200.

Rwys 25L, 25R, 2300-2 or std. with a min. climb of 375' per NM to 3100.

DEPARTURE PROCEDURE: **Rwys 7L, 7R**, climb direct REIGALOM, then climbing left turn via the 030° bearing from REIGALOM to intercept V109, then proceed on course. **Rwys 25L, 25R**, climb runway heading to 1200, then climbing right turn via heading 020° and OAK R-060 to ALTAM Int, then proceed on course.

LODI, CA**LODI**

DEPARTURE PROCEDURE: Climb direct to LIN VORTAC.

LOS BANOS, CA**LOS BANOS MUNI (LSN)****AMDT 2 09351 (FAA)**

DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 318° CW to 151° from DER, or minimum climb of 320' per NM to 5100 for all other courses. **Rwy 32**, climb on a heading between 260° CW to 137° from DER, or minimum climb of 273' per NM to 5200 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, buildings beginning 3' from DER, 24' left of centerline, up to 73' AGL/194' MSL. Multiple trees, poles, buildings beginning 20' from DER, 21' right of centerline, up to 85' AGL/206' MSL. **Rwy 32**, multiple trees beginning 220' from DER, 453' right of centerline, up to 40' AGL/160' MSL. Multiple poles, beginning 1120' from DER, 173' left of centerline, up to 60' AGL/181' MSL.

MADERA, CA**MADERA MUNI**

DEPARTURE PROCEDURE: **Rwy 30**, climbing right turn via FRA R-243 to BEREN Int/FRA 18.6 DME then via assigned route. **Rwy 12**, turn left, climb heading 095° to 1500, continue climb direct CZQ VORTAC, then via assigned route.

MAMMOTH LAKES, CA**MAMMOTH YOSEMITE**

TAKE-OFF MINIMUMS: **Rwy 9**, 500-2 or std. with a min. climb of 400' per NM to 10700. **Rwy 27**, 5000-5 or std. with a min. climb of 450' per NM to 11800.

DEPARTURE PROCEDURE: **Rwy 9**, climbing left turn heading 050° to intercept BIH R-307. **Rwy 27**, climbing right turn to heading 095° to intercept BIH R-307.

All aircraft proceed via BIH R-307 to BIH VOR/DME, then via BIH R-322 (V381) to NIKOL Int then via assigned route.

MARINA, CA**MARINA MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, std. with a min. climb of 291' PER nm TO 4600, OR 2000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, for climb in visual conditions: cross Marina Municipal Airport at or above 2100, continue climb direct SNS VORTAC, thence...

Rwy 29, climb via heading 288° to 1000', then climbing right turn direct SNS VORTAC, thence... **All aircraft** continue climb in SNS holding pattern (W, left turns, SNS VORTAC 084° inbound) to cross SNS VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

MARIPOSA, CA**MARIPOSA-YOSEMITE**

TAKE-OFF MINIMUMS: **Rwy 8**, N/A-Obstacles

DEPARTURE PROCEDURE: **Rwy 26**, climb via heading 265° to 3000, then climbing left turn to 7000 direct FRA VORTAC before proceeding on course.

NOTE: **Rwy 26**, tree 10' from departure end of runway, 313' left of centerline, 100' AGL/2265' MSL. Tree 1146' from departure end of runway, 303' left of centerline, 100' AGL/2298' MSL.

MARYSVILLE, CA**YUBA COUNTY**

DEPARTURE PROCEDURE: **All runways**, climb direct ILA VORTAC.

MERCED, CA**CASTLE (MER)****AMDT 1 09015 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 250' per NM to 2500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 126° to 2500 before turning left. For climb in visual conditions: Cross Castle Airport at or above 2200 before proceeding on course. **Rwy 31**, climb heading 306° to 1100 before turning right.

NOTE: **Rwy 13**, tree 2539' from departure end of runway, 1005' right of centerline, 89' AGL/261' MSL. **Rwy 31**, Tree 1274' from departure end of runway, 829' left of centerline, 20' AGL/224' MSL. Trees beginning 2909' from departure end of runway, 542' right of centerline, 65' AGL/269' MSL.

MERCED, CA (CON'T)**MERCED RGNL/MACREADY FIELD (MCE)****AMDT 5A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn to 3000 via heading 330° and MOD R-120 to MOD.

Rwy 30, climb to 3000 via heading 300° and MOD R-120 to MOD.

MODESTO, CA**MODESTO CITY-COUNTY HARRY SHAM FIELD (MOD)****AMDT 5 08269 (FAA)**

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, climb on a heading between 256° CW to 109° from departure end of runway, or minimum climb of 230' per NM to 5000 for all other courses.

NOTE: **Rwy 10R**, post 55' from departure end of runway, 204' right of centerline, 15' AGL/85' MSL. Multiple trees beginning 180' from departure end of runway, 295' right of centerline, up to 105' AGL/194' MSL. Multiple trees beginning 839' from departure end of runway, 81' left of centerline, up to 88' AGL/148' MSL. **Rwy 10L**, multiple trees beginning 915' from departure end of runway, 598' right of centerline, up to 87' AGL/167' MSL. **Rwy 28R**, pole 746' from departure end of runway, 700' right of centerline, 40' AGL/133' MSL. Pole 1414' from departure end of runway, 624' right of centerline, 40' AGL/133' MSL. Multiple trees beginning 2069' from departure end of runway, 378' left of centerline, up to 74' AGL/173' MSL. Building 2176' from departure end of runway, 21' left of centerline, 56' AGL/151' MSL. **Rwy 28L**, light pole 142' from departure end of runway, 519' left of centerline, 40' AGL/136' MSL. Hanger 358' from departure end of runway, 306' left of centerline, 15' AGL/109' MSL. Multiple trees beginning 745' from departure end of runway, 375' left of centerline, up to 79' AGL/173' MSL. Multiple trees, building and antenna beginning 1170' from departure end of runway, 322' right of centerline, up to 57' AGL/152' MSL.

MONTAGUE, CA**SISKIYOU COUNTY**

TAKE-OFF MINIMUMS: **Rwy 17**, CAT A, B 2400-2 or std. with a min. climb of 350' per NM to 5500. CAT C, D 4100-2 or std. with a min. climb of 350' per NM to 7400.

Rwy 35, 4000-2 or std. with a min. climb of 300' per NM to 7000.

DEPARTURE PROCEDURE: **Rwy 17**, climb direct MOG NDB. Continue climb to 10000 in MOG holding pattern (N, right turns, 172° inbound). **Rwy 35**, climb to 7000 via runway heading and 352° bearing from MOG NDB, then climbing right turn to 10000 direct MOG NDB. **All aircraft** depart MOG NDB at or above MEA for route of flight.

MONTEREY, CA

MONTEREY PENINSULA (MRY)

AMDT 6 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10L**, std. w/ min. climb of 428' per NM to 1900 or 1700-2½ for climb in visual conditions. **Rwy 10R**, std. w/ min. climb of 451' per NM to 1900 or 1700-2½ for climb in visual conditions.

Rwy 28L, std. w/ min. climb of 218' per NM to 800 or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10L**, climbing left turn heading 020° and SNS VORTAC R-231 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course. **Rwy 10R**, climbing left turn heading 020° and SNS VORTAC R-231 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course.

Rwy 28L, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course. **Rwy 28R**, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC before proceeding on course.

NOTE: **Rwy 10L**, obstruction light on DME 555' from DER, 217' right of centerline, 12' AGL/272' MSL. Tree 1.8 NM from DER, 2817' right of centerline, up to 100' AGL/859' MSL. **Rwy 10R**, obstruction light on DME 64' from DER, 284' left of centerline, 12' AGL/272' MSL. Tree 1.7 NM from DER, 2318' right of centerline, up to 100' AGL/859' MSL. **Rwy 28L**, tree 743' from DER, 619' left of centerline, up to 100' AGL/240' MSL. Tree 2.9 NM from DER, 2298' left of centerline, up to 100' AGL/640' MSL. Tree 2.9 NM from DER, 4578' left of centerline, 114' AGL/853' MSL. **Rwy 28R**, airplane 6' from DER, 179' left of centerline, 64' AGL/263' MSL.

MOUNTAIN VIEW, CA

MOFFETT FEDERAL AFLD

TAKE-OFF MINIMUMS: **Rwy 14L**, std. with a min. climb of 489' per NM to 6100. **Rwy 14R**, std. with a min. climb of 495' per NM to 6100. **Rwy 32L**, std. with a min. climb of 429' per NM to 6100. **Rwy 32R**, std. with a min. climb of 424' per NM to 6100.

NAPA, CA

NAPA COUNTY

TAKE-OFF MINIMUMS: **Rwy 6**, 1800-2½, climb in visual conditions to cross Napa County Airport at or above 1700 MSL before proceeding direct SGD VORTAC or std. with a min. climb of 475' per NM to 1400.

Rwys 36L, 36R, 1800-2½, climb in visual conditions to cross Napa County Airport at or above 1700 MSL before proceeding direct SGD VORTAC or std. with a min. climb of 370' per NM to 1200.

DEPARTURE PROCEDURE: **Rwys 6, 18L, 18R**, turn right. **Rwys 24, 36L, 36R**, turn left. All aircraft climb direct SGD VORTAC. Aircraft departing SGD R-060 CWR-270 climb on course. All others continue climb via SGD R-165 to 2000, then climbing right turn direct SGD VORTAC, climb on course.

NOTE: **Rwy 6**, Flood light 90' from departure end of runway, 500' left of centerline, 30' AGL/64' MSL. Flood light 581' from departure end of runway, 485' left of centerline, 30' AGL/67' MSL. Railroad 1143' to 1236' from departure end of runway, on centerline to 500' left of centerline, 23' AGL/64' to 67' MSL. Pole 1396' from departure end of runway, 741' right of centerline, 33' AGL/77' MSL. Trees 1563' from departure end of runway, 575' left of centerline, 34' AGL/78' MSL. Trees 2331' from departure end of runway, 203' right of centerline, 53' AGL/106' MSL. Trees 3297' from departure end of runway, 476' left of centerline, 52' AGL/131' MSL. Obstruction light hopper 3440' from departure end of runway, 273' right of centerline, 50' AGL/133' MSL. Trees 4895' from departure end of runway, 1067' left of centerline, 108' AGL/198' MSL.

Rwy 18L, tree 4982' from departure end of runway, 237' left of centerline, 58' AGL/92' MSL. **Rwy 24**, bridge 4964' from departure end of runway, 1716' right of centerline, 167' AGL/167' MSL. **Rwy 36R**, floodlight 462' from departure end of runway, 339' right of centerline, 29' AGL/53' MSL. Tree 8701' from departure end of runway, 1286' right of centerline, 70' AGL/289' MSL. Tree 8838' from departure end of runway, 2299' right of centerline, 64' AGL/383' MSL. **Rwy 36L**, terrain 1' from departure end of runway, 491' left of centerline, 34' MSL. Terrain 210' from departure end of runway, 417' left of centerline, 32' MSL. Trees 595' from departure end of runway, 517' right of centerline, 18' AGL/42' MSL. Trees 3182' from departure end of runway, 793' right of centerline, 81' AGL/117' MSL. Trees 4636' from departure end of runway, 345' right of centerline, 114' AGL/153' MSL. Trees 7061' from departure end of runway, 1800' right of centerline, 70' AGL/289' MSL. Pole 12845' from departure end of runway, 1471' right of centerline, 53' AGL/372' MSL. Pole 13005' from departure end of runway, 3483' right of centerline, 39' AGL/558' MSL. Tree 19688' from departure end of runway, 2155' right of centerline, 100' AGL/894' MSL.

NOVATO, CA

GROSS FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, NA. **Rwy 31**, 500-2 or std. with a min. climb of 250' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 31**, climbing right turn direct SGD VORTAC before proceeding on course.

OAKDALE, CA**OAKDALE**

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn via heading 020° and LIN VORTAC R-124 to WRAPS INT/LIN 16.66 DME. Climb in WRAPS holding pattern (Northwest, right turn, 124° inbound) to cross WRAPS INT at or above MEA for direction of flight. **Rwy 28**, climb via heading 276° and LIN VORTAC R-146 to LIN VORTAC cross LIN VORTAC at or above MEA for direction of flight.

NOTE: **Rwy 10**, terrain beginning 388' from departure end of runway, up to 279' MSL. **Rwy 28**, powerline 3447' from departure end of runway, 407' right of centerline, 115' AGL/329' MSL.

OAKLAND, CA**METROPOLITAN OAKLAND INTL**

DEPARTURE PROCEDURE: **Rwys 9L, 9R, 11, 15, 29**, turn right. **Rwys 27L, 27R**, maintain runway heading. **Rwy 33**, turn left. **All aircraft** climb to 4000 or above via V107 to COMMO Int. If not at 4000 at COMMO Int, climb in holding pattern (E, right turns, 288° inbound) before proceeding on course.

ORLAND, CA**HAIGH FIELD**

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn. **Rwy 33**, climbing right turn. **All aircraft** climb via CIC R-238 to GONGS Int. Aircraft departing GONGS Int 070° CW 240° or 290° CW 360° climb on course. All others climb in GONGS holding pattern (NE, right turns, 238° inbound) to depart GONGS Int at or above: 001° CW 069°, 3200; 241° CW 289°, 2300.

OROVILLE, CA**OROVILLE MUNI (OVE)****AMDT 2A 09267 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 1**, 1300-2 or std. w/ min. climb of 260' per NM to 1700. **Rwy 30**, 400-1¾ or std. w/ min. climb of 245' per NM to 600.

DEPARTURE PROCEDURE: **Rwys 1, 30**, climbing left turn heading 170°. **Rwys 12, 19**, climbing right turn heading 290°. **All aircraft** climb via MXWR-052 to TALUM Int/MXW 16.9 DME. Continue climb on course.

NOTE: **Rwy 1**, light poles beginning 1368' from DER, 538' right of centerline, up to 71' AGL/255' MSL. Tree 513' from DER, 603' left of centerline, 52' AGL/236' MSL. Windsock 1143' from DER, 350' right of centerline, 19' AGL/213' MSL. Ground 191' from DER, 489' right of centerline, 190' MSL. **Rwy 12**, light on pole 128' from DER, 293' right of centerline, 27' AGL/203' MSL. **Rwy 19**, pole 902' from DER, 655' right of centerline, 36' AGL/ 217' MSL. Vehicle on road 819' from DER, 376' left of centerline, 15' AGL/203' MSL. **Rwy 30**, obstruction light on transmission tower 1.4 NM from DER, 1825' right of centerline, 250' AGL/442' MSL. Tree 642' from DER, 638' left of centerline, 52' AGL/244' MSL.

PALO ALTO, CA**PALO ALTO AIRPORT OF
SANTA CLARA COUNTY**

DEPARTURE PROCEDURE: **Rwy 13**, turn left.

Rwy 31, turn right. **All aircraft** climb direct SJC VOR/ DME before proceeding on course.

PETALUMA, CA**PETALUMA MUNI**

DEPARTURE PROCEDURE: **Rwy 11**, climb to 2400 or above direct SGD VORTAC. **Rwy 29**, climb runway heading to 1500 then climbing left turn to 3000 direct SGD VORTAC. **All aircraft** continue climb to MEA for route of flight.

PLACERVILLE, CA**PLACERVILLE (PVF)****AMDT 2 08045 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 5**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 23**, climb to 5000 via HNW R-226 then climbing right turn via HNW R-226 to HNW VOR/DME. Aircraft departing HNW VOR/DME R-180 CW R-303 climb on course; all others climb in HNW VOR/DME holding pattern (Hold SW, right turn, 048° inbound) to cross HNW VOR/DME at or above MEA/MCA for direction of flight before proceeding en route.

NOTE: **Rwy 23**, hangar 20' from departure end of runway, 340' right of centerline, 27' AGL/2586' MSL.

PORTERVILLE, CA**PORTERVILLE MUNI**

TAKE-OFF MINIMUMS: **Rwy 12**, 200-1 or std. with a min. climb rate of 220' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn. **Rwy 30**, climbing left turn. **All aircraft** climb direct to TTE VOR/DME. Aircraft departing TTE R-146 CW R-330 climb on course. All others, continue climb in TTE holding pattern (NW, right turns, 143° inbound) to cross: TTE R-331 CW R-060, 8600; R-061 CWR-145, 7000.

NOTE: 559' frost fan 3000' east southeast runway 12.

RED BLUFF, CA**RED BLUFF MUNI**

TAKE-OFF MINIMUMS: **Rwy 33**, CATS C,D 2500-2 or std. with a min. climb of 300' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 15**, climb direct RBL VORTAC. **Rwy 33**, climbing right turn direct RBL VORTAC. **All aircraft** departing RBL R-091 CW R-200 climb on course. All others climb in RBL holding pattern (S, right turns, 341° inbound) to depart RBL VORTAC at or above: R-021 CW R-060, 4500; R-061 CWR-090, 2100; R-201 CWR-270, 4000; R-271 CWR-020, 2400.

REDDING, CA**REDDING MUNI**

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 122° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course. **Rwy 16**, climbing left turn heading 110° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course. **Rwys 30, 34**, climbing right turn heading 110° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

NOTE: **Rwy 12**, multiple trees and bush 86' from departure end of runway, 174' left of centerline up to 87' AGL/576' MSL, fence and equipment 282' from departure end of runway, 330' left of centerline, up to 8' AGL/500' MSL. **Rwy 30**, multiple trees beginning 1936' from departure end of runway, 210' left of centerline, up to 94' AGL/594' MSL, multiple trees beginning 1686' from departure end of runway, 326' right of centerline, 68' AGL/568' MSL. Multiple poles and antenna on hangar beginning 289' from departure end of runway, 385' left of centerline up to 34' AGL/534' MSL. Rod on pole 850' from departure end of runway, 524' right of centerline, 36' AGL/536' MSL. Powerline 2419' from departure end of runway, 1091' left of centerline 84' AGL/584' MSL. Hangar 1126' from departure end of runway, 528' left of centerline, 37' AGL/537' MSL. **Rwy 34**, sign 98' from departure end of runway, 356' left of centerline 5' AGL/510' MSL, tree 588' from departure end of runway, 483' left of centerline 16' AGL/521' MSL.

RIO VISTA, CA**RIO VISTA MUNI**

DEPARTURE PROCEDURE: **Rwy 7**, turn left. **Rwys 14, 25, 32** turn right. **All aircraft** climb direct SAC VORTAC.

SACRAMENTO, CA**MC CLELLAN AIRFIELD (MCC)****AMDT 1 08101 (FAA)**

TAKE-OFF MINIMUMS: STANDARD.

SACRAMENTO, CA (CON'T)**SACRAMENTO EXECUTIVE (SAC)****ORIG 08325 (FAA)**

NOTE: **Rwy 2**, multiple trees 1128' from departure end of runway, 108' left of centerline, up to 76' AGL/96' MSL. Antenna 1376' from departure end of runway, 663' left of centerline, 51' AGL/71' MSL. Trees 1858' from departure end of runway, 137' right of centerline, 73' AGL/93' MSL. **Rwy 12**, multiple trees 518' from departure end of runway, 26' left of centerline, up to 83' AGL/98' MSL. Light pole 507' from departure end of runway, 336' left of centerline, 37' AGL/52' MSL. Transmission pole 3971' from departure end of runway 647' left of centerline, 130' AGL/154' MSL. Multiple trees 475' from departure end of runway, 476' right of centerline up to 97' AGL/112' MSL. Light poles 711' from departure end of runway, 241' right of centerline, 36' AGL/51' MSL. **Rwy 16**, light pole 22' from departure end of runway, 481' left of centerline, 38' AGL/53' MSL. Antenna 540' from departure end of runway, 516' left of centerline, 53' AGL/67' MSL. Multiple trees beginning 1317' from departure end of runway, 36' left of centerline, up to 78' AGL/88' MSL. Multiple trees beginning 588' from departure end of runway, 195' right of centerline, up to 67' AGL/77' MSL. **Rwy 20**, multiple trees beginning 850' from departure end of runway, 626' left of centerline, up to 92' AGL/107' MSL. Multiple trees beginning 714' from departure end of runway, 515' right of centerline, up to 66' AGL/81' MSL. **Rwy 30**, obstruction light on hangers 460' from departure end of runway, 360' right of centerline, 25' AGL/43' MSL. Multiple trees beginning 631' from departure end of runway, 195' right of centerline, up to 56' AGL/74' MSL. Multiple trees beginning 1331' from departure end of runway, 247' left of centerline, up to 90' AGL/110' MSL. Antenna on building 1543' from departure end of runway, 442' left of centerline, 47' AGL/67' MSL. **Rwy 34**, trees 1724' from departure end of runway, 854' left of centerline, 56' AGL/74' MSL. Tree 2233' from departure end of runway, 1062' right of centerline, 79' AGL/99' MSL.

SACRAMENTO INTL

DEPARTURE PROCEDURE: **Rwy 16L**, climb via heading 164° to 800 before turning east.

SACRAMENTO MATHER

DEPARTURE PROCEDURE: **Rwys 4L, 4R**, climbing right turn direct SAC VORTAC. **Rwys 22 L, 22R** climb direct SAC VORTAC.

SALINAS, CA**SALINAS MUNI**

TAKE-OFF MINIMUMS: **Rwys 3, 14, 21, 32**, NA.

Rwy 8, CAT C, D 3600-2 or std. with a min. climb of 420' per NM to 4100. **Rwy 13**, CAT C, D 3600-2 or std. with min. climb of 500' per NM to 4000. **Rwy 31**, RVR/24, FAR 135.

DEPARTURE PROCEDURE: **Rwys 8, 13, 26**, turn right.

Rwy 31, turn left. Climb on SNS R-275 to 2000, then climbing right turn to cross SNS VORTAC at or above 3000.

SAN ANDREAS, CA

CALAVERAS CO-MAURY RASMUSSEN FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 1800-5 or std. with a min. climb of 290' per NM to 3100.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to 3100, then climbing right turn via LIN R-085 to LIN VORTAC. **Rwy 31**, climb via heading 311° to 3000, then climbing left turn via Linden (LIN) VORTAC R-029 to LIN VORTAC.

SAN CARLOS, CA

SAN CARLOS (SQL)

AMDT 1 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwy 12**, climbing left turn via heading 120° and SJC VOR/DME R-281 to SJC VOR/DME before proceeding on course.

NOTE: **Rwy 12**, ground 0' from DER, 148' left of centerline, 0' AGL/11' MSL. Building 2' from DER, 167' right of centerline, 27' AGL/30' MSL. Levee beginning 117' from DER, 90' left of centerline, up to 12' AGL/12' MSL. Pole 715' from DER, 294' right of centerline, 34' AGL/38' MSL. Tower 1674' from DER, 741' right of centerline, 106' AGL/111' MSL.

SAN FRANCISCO, CA

SAN FRANCISCO INTL

TAKE-OFF MINIMUMS: **Rwy 19L**, 2000-2 or std. with a min. climb of 520' per NM to 2300. **Rwy 19R**, 2000-2 or std. with a min. climb of 500' per NM to 2300.

Rwys 28L, 28R, 800-2 or std. with a min. climb of 270' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 1L, 1R, 28L, 28R**, climb runway heading to 2000. **Rwys 10L, 10R, 19L, 19R**, climbing left turn via heading 050° and SFO R-090. **All aircraft** continue climb on course.

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE INTL (SJC)

AMDT 6A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 11, 12R**, 400-2½ or std. with a min. climb of 260' per NM to 500. **Rwy 12L**, 400-1¾ or std. with a min. climb of 278' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 11, 12L, 12R**, climbing right turn via heading 315° to 2000, then via OAK R-135 to OAK VORTAC before proceeding on course. **Rwys 29, 30L, 30R**, Climb via heading 312° to 2000, then via OAK R-132 to OAK VORTAC before proceeding on course.

NOTE: **Rwy 11**, multiple trees beginning 1837' from DER, 230' right of centerline, up to 85' AGL/154' MSL. Crane 2.14 NM from DER, 1144' left of centerline, 305' AGL/389' MSL. **Rwy 12L**, multiple cranes, trees, and bldg beginning 286' from centerline, 69' right of centerline, up to 305' AGL/389' MSL. Multiple antennas, poles, bldg, and trees beginning 191' from DER, 48' left of centerline, up to 275' AGL/366' MSL. **Rwy 12R**, multiple antennas, bldg, cranes, poles, and trees beginning 1402' from DER, 194' left of centerline, up to 305' AGL/389' MSL. Multiple antennas, bldg, cranes, poles, and trees beginning 659' from DER, 150' right of centerline, up to 73' AGL/142' MSL. **Rwy 29**, tree 2252' from DER, 114' left of centerline, 86' AGL/125' MSL. OL on GS 821' from DER, 400' right of centerline, 35' AGL/74' MSL. **Rwy 30L**, multiple antennas, poles, towers, and trees beginning 1014' from DER, 350' left of centerline, up to 59' AGL/94' MSL. Multiple antennas, poles, and trees beginning 1279' from DER, 379' right of centerline, up to 52' AGL/88' MSL. **Rwy 30R**, multiple antennas, fences, and poles beginning 139' from DER, 40' right of centerline, up to 95' AGL/124' MSL. Multiple poles and trees beginning 185' from DER, 38' left of centerline, up to 51' AGL/85' MSL.

REID-HILLVIEW OF SANTA CLARA COUNTY

TAKE-OFF MINIMUMS: **Rwys 13L, 13R**, NA - environmental.

DEPARTURE PROCEDURE: Use DECO T DEPARTURE.

SAN MARTIN, CA

SOUTH COUNTY AIRPORT OF SANTA CLARA COUNTY

TAKE-OFF MINIMUMS: **Rwy 14**, NA. **Rwy 32**, 400-2 or std. with a min. climb of 350' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 32**, **all aircraft** climb runway heading to 2200, aircraft departing northwest via V-485, climbing left turn to 4600, heading 270° to intercept SJC R-121 (V-485) to SJC VOR/DME proceed on course; aircraft departing southeast via V-485, climbing left turn to 4600, heading 170° to intercept SJC R-121 (V485) southeast bound to GILRO Int and proceed on course.

SANTA ROSA, CA

CHARLES M. SCHULZ-SONOMA COUNTY

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 267' per NM to 2400, or 1000-2½ for climb in visual conditions. **Rwy 32**, std. with a min. climb of 314' per NM to 2400, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 1, 32**, climbing left turn heading 164°, thence...or climb in visual conditions to cross the STS VOR/DME southwestbound at or above 1100, thence...**Rwy 14**, climbing right turn heading 250°, thence...**Rwy 19**, climb on heading 190°, thence...

...intercept and climb via STS R-202 to FREES INT, cross FREES at or above MEA for route of flight or continue climb in FREES holding pattern (SE, right turns, PYE VORTAC 334.73 inbound) to MEA for route of flight.

NOTE: **Rwy 1**, tree 739' from departure end of runway, 525' left of centerline, 40' AGL/141' MSL. **Rwy 14**, multiple trees beginning 321' from departure end of runway, 421' left of centerline up to 73' AGL/172' MSL. Tree 2113' from departure end of runway, 721' right of centerline, 77' AGL/176' MSL. **Rwy 19**, posts 39' from departure end of runway, 259' right of centerline, 7' AGL/126' MSL. Multiple trees beginning 1482' from departure end of runway, 461' right of centerline, up to 100' AGL/253' MSL. Multiple trees beginning 1666' from departure end of runway, 58' left of centerline, up to 55' AGL/257' MSL. **Rwy 32**, windsock 39' from departure end of runway, 341' left of centerline, 25' AGL/133' MSL. Multiple trees beginning 810' from departure end of runway, 87' right of centerline up to 50' AGL/205' MSL. Multiple trees beginning 2419' from departure end of runway, 167' left of centerline, up to 50' AGL/216' MSL.

SOUTH LAKE TAHOE, CA

LAKE TAHOE

TAKE-OFF MINIMUMS: **Rwy 18**, 4000-3 or std. with min. climb of 700' per NM to 9800. **Rwy 36**, 2700-3 or std. with a min. climb of 400' per NM to 8300.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 9800, then continue climbing right turn via heading 280° and SWR R-152 to SWR VOR/DME.

Rwy 36, climb runway heading to 8300, then continue climbing left turn via heading 340° and SWR R-102 to SWR VOR/DME. Then **all aircraft** proceed on course.

STOCKTON, CA

STOCKTON METROPOLITAN (SCK)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29R**, 300-1¼ or std. w/ min. climb of 210' per NM to 300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 11L**, truck on road 199' from departure end of runway, 439' left of centerline, 15' AGL/49' MSL. Obstruction light on blast fence and antenna on building beginning 294' from departure end of runway, 39' right of centerline, up to 20' AGL/50' MSL. **Rwy 29L**, antenna on building 2956' from departure end of runway, 1204' left of centerline, 90' AGL/117' MSL. Stack 5562' from departure end of runway, 1721' right of centerline, 143' AGL/171' MSL. **Rwy 29R**, obstruction light on grain elevator, 1.0 NM from departure end of runway, 1882' left of centerline, 161' AGL/191' MSL. Light tower and rod on field light tower beginning 245' from departure end of runway, 1' left of centerline up to 44' AGL/71' MSL. Stacks and light on silo beginning 256' from departure end of runway, 381' right of centerline, up to 144' AGL/171' MSL.

SUSANVILLE, CA

SUSANVILLE MUNI

DEPARTURE PROCEDURE: Use AMEDEE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TRACY, CA

TRACY MUNI (TCY)
AMDT 3 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. w/ a min. climb of 320' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 8**, climb to 3000 via heading 073° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 12**, climbing left turn to 3000 to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 26**, climbing right turn to 3000 via heading 150° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 30**, climbing right turn to 3000 via heading 150° to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

NOTE: **Rwy 8**, tree 472' from DER, 198' left of centerline, 50' AGL/194' MSL. Fence 167' from DER, 8' right of centerline, 25' AGL/176' MSL. Vehicle on road 241' from DER, 412' left of centerline, 15' AGL/183' MSL. Vehicles on roads starting 241' from DER, 7' right of centerline, up to 15' AGL/189' MSL. Poles starting 403' from DER, 204' left of centerline, up to 54' AGL/208' MSL. Poles starting 727' from DER, 49' right of centerline, up to 54' AGL/212' MSL. **Rwy 12**, trees starting 436' from DER, 251' right of centerline, up to 72' AGL/253' MSL. Conveyor 1995' from DER, 504' left of centerline, 66' AGL/270' MSL. Poles starting 832' from DER, 396' right of centerline, up to 56' AGL/240' MSL. Obstruction light on hopper 1934' from DER, 274' right of centerline, 74' AGL/255' MSL. Vehicles on road starting 133' from DER, 272' left of centerline, up to 15' AGL/206' MSL. Fence 32' from DER 405' left of centerline, 25' AGL/194' MSL. **Rwy 26**, tree 1173' from DER, 180' right of centerline, 35' AGL/234' MSL. Trees starting 1067' from DER, 125' left of centerline, up to 35' AGL/794' MSL. Vehicle on road 236' from DER, 150' left of centerline, 15' AGL/214' MSL. Fence 69' from DER, 133' left of centerline, 23' AGL/203' MSL. Rising terrain 11105' from DER, 2814' left of centerline, up to 739' MSL. **Rwy 30**, trees starting 438' from DER, 30' right of centerline, up to 35' AGL/209' MSL. Tree 1079' from DER, 82' left of centerline, 35' AGL/214' MSL. Obstruction light on hopper 985' from DER, 353' right of centerline, 72' AGL/236' MSL. Bush 195' from DER, 364' left of centerline, 25' AGL/189' MSL. Light pole 1149' from DER, 160' left of centerline, 47' AGL/211' MSL. Obstruction light on building 2289' from DER, 65' right of centerline, 74' AGL/238' MSL.

TRAVIS AFB (KSUU)

FAIRFIELD, CA 09295

All Rwy: Comply with assigned SID or ATC radar vectors.

TAKE-OFF OBSTACLES: **Rwy 3L**, 56' MSL, Terrain 10' to 46' from DER, 500' left of centerline. **Rwy 21L**, Light pole 15' AGL/83' MSL, 148' from DER, 546' left of centerline. Light pole 15' AGL/84' MSL, 346' from DER, 547' left of centerline. Light pole 15' AGL/84' MSL, 521' from DER, 548' left of centerline. Light pole 15' AGL/83' MSL, 702' from DER, 549' left of centerline. Light pole 15' AGL/84' MSL, 880' from DER, 549' left of centerline. Light pole 15' AGL/85' MSL, 926' from DER, 661' left of centerline.

DEPARTURE PROCEDURE: **Rwy 3L**, Climb on a heading between 344° CW to 137° from DER. **Rwy 3R**, Climb on a heading between 328° CW to 140° from DER.

TRUCKEE, CA

TRUCKEE-TAHOE (TRK)
AMDT 4 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10, 19**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwys 1, 28**, use TRUCK DEPARTURE.

TULARE, CA

MEFFORD FIELD

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn. **Rwy 31**, climbing left turn. **All aircraft** climb direct to VIS VOR/DME. Aircraft departing VIS R-001 CW R-140 continue climb in VIS holding pattern (E, right turns, 287° inbound) to cross VIS VOR/DME at or above 4000. All other aircraft climb on course.

UKIAH, CA

UKIAH MUNI

TAKE-OFF MINIMUMS: **Rwy 15**, NA. **Rwy 33**, 300-1 and min. climb of 350' per NM to 4000.

DEPARTURE PROCEDURE: Climb to 4000 via heading 350° then climbing left turn to 6000 direct ENI.

VACAVILLE, CA

NUT TREE (VCB)

AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, std. w/ min. climb of 424' per NM to 1600, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn to intercept SAC R-242 to SAC VORTAC, to 2000 before proceeding on course. **Rwy 20**, climbing left turn to intercept SAC R-242 to SAC VORTAC, to 2000 before proceeding on course, or, for climb in visual conditions: cross Nut Tree Airport eastbound at or above 1300, then climb to 2000 via SAC R-242 to SAC VORTAC, proceed on course.

NOTE: **Rwy 2**, trees beginning 222' from DER, 514' left of centerline up to 106' AGL/225' MSL. Light pole 337' from DER, 534' left of centerline, 28' AGL/147' MSL.

Rwy 20, pole 161' from DER, 500' left of centerline, 120' AGL/239' MSL. Trees beginning 269' from DER, 335' left of centerline, up to 117' AGL/236' MSL. Pole 777' from DER, 436' left of centerline, 119' AGL/238' MSL. Windsock 6' from DER, 166' right of centerline, 8' AGL/127' MSL. Fence 193' from DER, 202' right of centerline, 3' AGL/122' MSL.

VISALIA, CA

VISALIA MUNI (VIS)

AMDT 3 09239 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 230° to 2000 to intercept V23. **Rwy 30**, climbing left turn via heading 230° to 2000 to intercept V23.

NOTE: **Rwy 12**, tree 774' from DER, 618' right of centerline, 46' AGL/340' MSL. Tree 1327' from DER, 823' left of centerline, 55' AGL/349' MSL. **Rwy 30**, multiple trees beginning 179' from DER, 260' left of centerline, up to 54' AGL/343' MSL. Antenna on building 285' from DER, 250' right of centerline, 16' AGL/305' MSL. Truck on road 522' from DER, on centerline, 17' AGL/342' MSL. Railroad 690' from DER, 549' left of centerline, 23' AGL/317' MSL. Multiple trees beginning 876' to 3029' from DER, 341' to 461' left of centerline, up to 90' AGL/379' MSL. Multiple trees beginning 1886' from DER, 103' right of centerline, up to 58' AGL/347' MSL.

WATSONVILLE, CA

WATSONVILLE MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1100-2 CAT A,B, 1900-2 CAT C,D or std. with a min. climb of: CAT A,B 330' per NM to 2200; CAT C,D 460' per NM to 2400. **Rwy 8**, std. with a min. climb of 290' per NM to 2200. **Rwy 20**, std. with a min. climb of 330' per NM to 2200. **Rwy 26**, std. with a min. climb of 330' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 2** climbing right turn.

Rwy 20, climb runway heading. **Rwy 26**, climbing left turn. **All aircraft** intercept 212° bearing from PAJAR NDB and climb to cross MOVER Int at or above 2200. Climb in MOVER INT holding pattern (NE, right turns, 212° inbound) until reaching MEA or assigned altitude.

NOTE: **Rwy 2**, 40' AGL pole 17' from departure end of runway, 340' left of centerline. **Rwy 8**, 189' AGL tower 4696' from departure end of runway, 1200' right of centerline. **Rwy 20**, 106' AGL tree 954' from departure end of runway, 550' left of centerline. **Rwy 26**, 174' AGL tree 625' from departure end of runway, 580' left of centerline.

WILLITS, CA

ELLS FIELD-WILLITS MUNI

DEPARTURE PROCEDURE: **Rwy 16**, use

MENDOCINO RNAV DEPARTURE. **Rwy 34**, use

FLUEN RNAV DEPARTURE.

WILLOWS, CA

WILLOWS-GLENN COUNTY

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn. **Rwy 16**, climb runway heading. **Rwy 31, 34**, climbing left turn. **All aircraft** climb direct to MXW VORTAC. Aircraft departing MXW Vortac R-330 CW R-220, climb on course. All others continue climb in MXW holding pattern (S, 350° inbound, left turns) to depart MXW Vortac 220° CW 290°, 6500, 291° CW 330°, 5500.

NOTE: **Rwy 34**, 55' AGL pole 530' from departure end of runway, 430' right of centerline.

WOODLAND, CA

WATTS-WOODLAND (O41)

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 185° and ILAR-151 to EMBER INT/ILA 48 DME before proceeding on course. **Rwy 36**, climbing left turn via heading 320° and ILAR-145 to ILA VORTAC before proceeding on course.

NOTE: **Rwy 18**, tree 2478' from DER, 283' right of centerline, 100' AGL/249' MSL. Vehicle on road 192' from DER, on centerline, 15' AGL/144' MSL. **Rwy 36**, tree 453' from DER, 69' left of centerline, 100' AGL/224' MSL. Vehicle on road 350' from DER, on centerline, 15' AGL/134' MSL. Tree 4489' from DER, 1688' left of centerline, 100' AGL/234' MSL.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS
APPLE VALLEY, CA
 APPLE VALLEY
 TAKE-OFF MINIMUMS: **Rwy 36**, 300-1 or std. with a min. climb gradient of 340' per NM until 5800.
Rwy 8,18,26, NA.
 DEPARTURE PROCEDURE: Use EXCON ONE RNAV DEPARTURE. **Rwy 8,18,26**, NA.

AVALON, CA
 CATALINA
 DEPARTURE PROCEDURE: **Rwys 4,22**, climb straight ahead to 2300 then proceed on course.

BAKERSFIELD, CA
 BAKERSFIELD MUNI
 TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 230' per NM to 500. **Rwy 34**, 400-2 or std. with a min. climb of 400' per NM to 800.
 DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. **All aircraft** climb direct EHF VORTAC. Aircraft departing EHF R-120 CW R-360, climb on course, all others continue climb in EHF VORTAC holding pattern (NW, right turns, 144° inbound) to cross EHF at or above 4000, before proceeding on course.
 NOTE: 120' powerlines on centerline, 2551' from departure end of runway 16.

NAME TAKE-OFF MINIMUMS
BAKERSFIELD, CA (CON'T)
 MEADOWS FIELD
 DEPARTURE PROCEDURE: **All aircraft** climbing right turn direct EHF VORTAC. Aircraft departing EHF R-180 CWR-350 climb on course. All others continue climb northwestbound via EHF R-324, then climbing left turn to cross EHF VORTAC at or above: EHF R-110 CWR-179 3000; EHF R-351 CW R-109 4000.

BIG BEAR CITY, CA
 BIG BEAR CITY
 TAKE-OFF MINIMUMS: **Rwy 8**, 1200-2 or std. with a min. climb of 282' per NM to 8000. **Rwy 26**, NA.
 DEPARTURE PROCEDURE: Use OKACO RNAV DEPARTURE. **Rwy 26**, NA.

BLYTHE, CA
 BLYTHE
 TAKE-OFF MINIMUMS: **Rwy 26**, 700-2 or std. with a min. climb of 330' per NM to 1100.
 DEPARTURE PROCEDURE: **Rwys 8,17,35**, turn right. **Rwy 26**, turn left, climb to 1500 via heading 180° and BLH R-120, then climbing left turn direct BLH VORTAC, MCA 2000.

BORREGO SPRINGS, CA

BORREGO VALLEY (L08)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use ZUNGU

DEPARTURE (RNAV).

BRAWLEY, CA

BRAWLEY MUNI

TAKE-OFF MINIMUMS: **Rwy 26**, NA.

DEPARTURE PROCEDURE: **Rwy 8**, turn right. Climb to 3000 via IPL R-009 to IPL VORTAC, then climb on course.

BURBANK, CA

BOB HOPE

TAKE-OFF MINIMUMS: **Rwy 8**, Cats A,B 1500-2 or std. with 480' per NM to 2400. Cats C,D 2300-2 or std. with 650' per NM to 3200. **Rwy 15**, 1300-2 or std. with 290' per NM to 2100. **Rwy 33**, 1100-2 or std. with 390' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 26**, climb direct VNY VOR/DME. **Rwys 8,15**, climbing right turn. **Rwy 33**, climbing left turn direct to VNY VOR/DME. **All aircraft** continue climb to MEA. North/westbound via V326 to GINNA Int, south/eastbound via V186 to DARTS Int.

CALIFORNIA CITY, CA

CALIFORNIA CITY MUNI

DEPARTURE PROCEDURE: Use CALIFORNIA CITY (RNAV) DEPARTURE.

CALIPATRIA, CA

CLIFF HATFIELD MEMORIAL

DEPARTURE PROCEDURE: **Rwy 8**, climb runway heading to 400', then climbing right turn to 3000 via heading 200° and IPL R-336 to IPL VORTAC. **Rwy 26**, climb runway heading to 400', then climbing left turn to 3000 via IPL R-336 to IPL VORTAC.

CAMARILLO, CA

CAMARILLO

TAKE-OFF MINIMUMS: **Rwy 8**, 1100-2 or std. with a min. climb of 250' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 8**, climb to 2500 via CMA R-061. **Rwy 26**, climbing right turn to 2500 via CMA R-265. **All aircraft** climbing left turn direct CMA VOR/DME. Continue climb on course to assigned altitude.

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

OCEANSIDE, CA09015

Rwy 3: Diverse departures not authorized.

Rwy 21: Cross DER 35' AGL/96' MSL or above.

Diverse departure authorized between 199° to 226° CW – Civil standard with minimum obstacle climb of 500 ft/ NM to 1000'; Military standard with minimum obstacle climb of 430 ft/NM to 800'. 800-2 ceiling and vis authorized in lieu of minimum climb rate.

TAKE-OFF OBSTACLES: **Rwy 3**: Multiple trees up to 101' AGL/165' MSL, beginning 2180' from DER, 490' to 700' right of centerline. Tree 66' AGL/141' MSL, 2209' from DER, 207' left of centerline. Tree 101' AGL/164' MSL, 2286' from DER, 506' right of centerline. Antenna 276' MSL, 4525' from DER, 1233' left of centerline. Terrain 739' MSL, 4.02 NM from DER, 3721' left of centerline. **Rwy 21**: Terrain 219' MSL, 3790' from DER, 815' left of centerline. Terrain 399' MSL, 5598' from DER, 1853' left of centerline. Terrain 530' MSL, 1.5 NM from DER, 943' right of centerline. Antennas and Tower up to 50' AGL/623' MSL, beginning 1.5 NM from DER, 2390' to 2745' right of centerline. Multiple Pylons and Terrain up to 50' AGL/606' MSL, beginning 1.6 NM from DER, 1022' to 1605' right of centerline. TACAN 70' AGL/560' MSL, 1.75 NM from DER, 90' right of centerline. Trees 43' AGL/104' MSL, 552' from DER, 182' right of centerline. Trees 63' AGL/ 124' MSL, 836' from DER, 714' left of centerline. Trees 40' AGL/101' MSL, 502' from DER, 273' left of centerline.

CARLSBAD, CA

MC CLELLAN-PALOMAR

TAKE-OFF MINIMUMS: **Rwy 6**, 1400-2 or std. with a min. climb of 260' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 6**, climbing left turn to 3100 heading 245°. **Rwy 24**, climb runway heading to 2800. **All aircraft** climb on course.

CHINA LAKE NAWS (ARMITAGE FLD)(KNID)

RIDGECREST, CA 07130

Rwy 3, 8, Diverse departure not authorized.

Rwy 14, Diverse departures authorized 071° to 141° CW with minimum civil climb of 450'/NM to 6900, minimum military climb of 390'/NM to 6300. 141° to 211° CW with minimum civil climb of 310'/NM to 5400, minimum military climb of 290'/NM to 5100.

Rwy 21, Diverse departures authorized 143° to 208° CW with minimum civil climb of 310'/NM to 5900, minimum military climb of 280'/NM to 5600.

Rwy 26, Diverse departures authorized 143° to 200° CW with minimum civil climb of 300'/NM to 5900, minimum military climb of 280'/NM to 5600. Turn left on departure to assigned heading. Maximum departure speed 250 KIAS until established on assigned heading. **Rwy 32**, Diverse departures authorized 126° to 175° CW with minimum civil climb of 350'/NM to 6300, minimum military climb of 310'/NM to 5900. Turn left on departure to assigned heading. Maximum departure speed 250 KIAS until established on assigned heading.

TAKE-OFF OBSTACLES: **Rwy 14**, Tower 176' AGL/2415' MSL, 5545' from DER, 246' right of centerline.

CHINO, CA

CHINO

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 270' per NM to 4800. **Rwys 8L/R**, std. with a min. climb of 270' per NM to 4800. **Rwy 21**, Cat A/B std. with a min. climb of 290' per NM to 4800, Cat C/D std. with a min. climb of 400' per NM 4800. **Rwys 26L/R**, Cat A/B std. with a min. climb of 270' per NM to 4800, Cat C/D std. with a min. climb of 410' per NM to 4800.

DEPARTURE PROCEDURE: **Rwys 3, 8L/R**, climbing right turn direct PDZ VORTAC. **Rwys 21, 26L/R**, climbing left turn direct PDZ VORTAC. **All aircraft** climb in PDZ VORTAC holding pattern (Hold E, right turns, 258° inbound) to the appropriate MEA.

NOTE: 108' AGL trees 1200' from departure end of runway 3, 600' left of centerline.

CORONA, CA

CORONA MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, 1000-2 or std. with a min. climb of 310' per NM to 1700. **Rwy 25**, 600-2 or std. with a min. climb of 280' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn. **Rwy 25**, climbing right turn. **All aircraft** continue climb direct to PDZ VORTAC. Aircraft departing PDZ R-091 CWR-140 and R-231 CWR-280 climb on course. All others continue climb in PDZ VORTAC holding pattern (Hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-141 CWR-230 4000, R-281 CWR-090 6700.

DAGGETT, CA

BARSTOW-DAGGETT (DAG)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std w/ min. climb of 401' per NM to 4400 or 3500-3 for climb in visual conditions. **Rwy 26**, std. w/ min. climb of 432' per NM to 4600 or 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb direct DAG VORTAC. Thence...**Rwy 8**, climbing left turn direct DAG VORTAC. Thence...**Rwys 22, 26**, climbing right turn heading 090° and DAG VORTAC R-224 to DAG VORTAC. Thence...

...climb in DAG VORTAC holding pattern (NE, left turns, 224° inbound) to cross DAG VORTAC at or above 7500 before proceeding on course, or for climb in visual conditions: cross Barstow-Daggett airport Northeastbound at or above 5300, then climb to 7500 via DAG R-224 to DAG VORTAC before proceeding on course.

NOTE: **Rwy 4**, multiple bushes, terrain, and AG equipment beginning at DER, from 295' left and 286' right of centerline, up to 40' AGL/1928' MSL. **Rwy 8**, multiple trees and bushes beginning 113' from DER, from 343' left and 259' right of centerline, up to 40' AGL/ 1924' MSL. **Rwy 22**, multiple terrain beginning at 5668' from DER, from 2019' right and 2019' left of centerline, up to 3895' MSL. **Rwy 26**, road beginning 360' from DER, from 596' left and 596' right of centerline, up to 15' AGL/1946' MSL. Railroad beginning 953' from DER, from 755' left and 755' right of centerline, up to 23' AGL/ 1958' MSL.

DELANO, CA

DELANO MUNI (DLO)

AMDT 3A 08129 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, 400-1 or std. with a min. climb rate of 390' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 14**, Climb via heading 140° and EHF VORTAC R-324 to 3000 before proceeding on course. **Rwy 32**, climb via heading 320° and EHF VORTAC R-324 to 3000 before proceeding on course.

NOTE: 65' AGL tree 600' from departure end of runway, 500' left of centerline runway 14.

EDWARDS AF AUX NORTH BASE (9L2)

EDWARDS, CA

Rwy 6-24, climb on course, cross 15 NM from ARP at or above 4500.

EDWARDS AFB (KEDW)

EDWARDS, CA08269

Rwy 4L/R, Radar Required, Climb 340/NM to 5500, track inbound on EDWR-223 to EDW VORTAC, then out EDWR-043. Climb as instructed, expect radar vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500. **Rwy 22L/R**, Radar and DME Required. CAT ABC track outbound EDWR-223. At 12 DME turn right heading 020, intercept EDWR-247 to EDW VORTAC. Climb as instructed, expect radar vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500. CAT DE track outbound EDWR-223. At 12 DME turn right, intercept EDWR-247 to EDW VORTAC. Climb as instructed, expect radar vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500.

EL CENTRO NAF (KNJK)

EL CENTRO, CA09127

Diverse Departures not authorized.

DEPARTURE PROCEDURE: **All Rwys**, use published departure procedure or if ceiling and visibility is below 2100-2½, make climbing turn direct IPL VORTAC within 3.6 DME of NJK TACAN and expect radar vectors to join assigned route. Expect filed altitude 10 minutes after departure. Cross IPL VORTAC at or below 7000.

EL MONTE, CA

EL MONTE

TAKE-OFF MINIMUMS: **Rwy 1**, 600-1 or std. with a min. climb of 280' per NM to 1000. **Rwy 19**, 1200-2 or std. with min. climb of 230' per NM to 1900.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn. **Rwy 19**, climb runway heading to 800 then climbing left turn. **All aircraft** intercept PDZ R-278 to PDZ VORTAC. Aircraft departing PDZ R-091 CWR-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 6700.



FALLBROOK, CA

FALLBROOK COMMUNITY AIRPARK

TAKE-OFF MINIMUMS: **Rwy 36**, CAT A,B, 700-2 or std. with a min. climb of 340' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 1200, then climbing left turn via heading 160° to join V208-458. Aircraft westbound proceed on course. Aircraft eastbound V208-458 proceed to VISTA Int and climb in holding pattern (E, left turns, 263° inbound) to 5000 before proceeding on course. **Rwy 36**, climb runway heading to 1500, then climbing right turn to intercept OCN VORTAC R-027 to TANNR Int before proceeding on course.

FULLERTON, CA

FULLERTON MUNI (FUL)

AMDT 4A 08185 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, std. with a min. climb of 230' per NM to 900, or 1100-2½ for climb in visual conditions. **Rwy 24**, std. with a min. climb of 320' per NM to 2300, or 1100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn to 2300 direct SLI VORTAC, or for climb in visual conditions: cross Fullerton Airport southwest bound at or above 1100, then climb to 2300 via SLIR-020 to SLI VORTAC. **Rwy 24**, climbing left turn to 2300 direct SLI VORTAC, or for climb in visual conditions: cross Fullerton Airport southwest bound at or above 1100, then climb to 2300 via SLIR-020 to SLI VORTAC.

NOTE: **Rwy 6**, obstruction light 109' from departure end of runway, 117' left of centerline, 22' AGL/118' MSL. Train 122' from departure end of runway, 106' left of centerline, 23' AGL/121' MSL. Multiple poles 58' to 1003' from threshold centerline to 373' right of centerline, 39' AGL/135' MSL. Hopper on building 977' from departure end of runway, 468' left of centerline, 36' AGL/132' MSL. Light pole 1247' from threshold, 143' left of centerline, 35' AGL/131' MSL. Tree 1463' from departure end of runway, 35' left of centerline, 72' AGL/168' MSL. Obstruction light 1620' from departure end of runway, 318' right of centerline, 50' AGL/146' MSL. Pole 2234' from departure end of runway, 754' left of centerline, 78' AGL/174' MSL. Pole 3597' from departure end of runway, 793' left of centerline, 102' AGL/198' MSL. Building 3208' from departure end of runway, 820' right of centerline, 112' AGL/217' MSL. Tower 1 NM from departure end of runway, 1937' left of centerline, 94' AGL/267' MSL. Pole 1.6 NM from departure end of runway, 1.5 NM left of centerline, 90' AGL/575' MSL. Tower 1.1 NM from departure end of runway, 1.7 NM left of centerline, 130' AGL/729' MSL. Tower 2 NM northwest of departure end of runway, 760' AGL/820' MSL. **Rwy 24**, road 82' from departure end of runway, on centerline, 15' AGL/99' MSL. Light 85' from departure end of runway, 260' right of centerline, 25' AGL/110' MSL. Light 217' from departure end of runway, 320' left of centerline, 104' AGL/122' MSL. Antenna on building 272' from departure end of runway, 278' left of centerline, 31' AGL/116' MSL. Trees 253' from departure end of runway, 228' right of centerline, 57' AGL/142' MSL. Obstruction light 400' from departure end of runway, on centerline, 18' AGL/103' MSL. Trees 1336' to 2492' from departure end of runway, 160' left of centerline to 419' right of centerline, 70' AGL/155' MSL. Tower 1.3 NM from departure end of runway, 5034' right of centerline, 684' AGL/750' MSL.

HAWTHORNE, CA

JACK NORTROP FIELD/HAWTHORNE MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, 300-2 or std. with a min. climb of 363' per NM to 500. **Rwy 25**, 200-1 or std. w/ a min. climb of 289' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 7**, turn right, climb via heading 240°. **Rwy 25**, turn left, climb via heading 210°. All runways climb to 3000 via LAX R-170 to LIMBO Int.

NOTE: **Rwy 7**, multiple transmission towers beginning 5428' from departure end of runway, 205' left of centerline, up to 247' AGL/307' MSL. Antenna on building 1.1 NM from departure end of runway, 2020' left of centerline, 244' AGL/305' MSL. Multiple trees, poles, light poles and buildings beginning 130' from departure end of runway, 12' left of centerline, up to 266' AGL/327' MSL. Multiple trees, poles, signs and OL lights beginning 73' from departure end of runway, 90' right of centerline, up to 184' AGL/245' MSL. **Rwy 25**, OL light on tank 4471' from departure end of runway, 1311' left of centerline, 227' MSL. Multiple antennas on buildings, trees and poles 91' from departure end of runway, 64' left of centerline, up to 93' AGL/154' MSL. Multiple trees and poles beginning 309' from departure end of runway, 162' right of centerline, up to 84' AGL/149' MSL.

HEMET, CA

HEMET-RYAN

TAKE-OFF MINIMUMS: **Rwys 4,22**, N/A-restricted to glider operations. **Rwy 5**, std. with a min. climb of 526' per NM to 5200, or 1400-2½ for climb in visual conditions. **Rwy 23**, std. with a min. climb of 414' per NM to 3200, or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via HDF VOR R-084 to HDF VOR, thence...or climb in visual conditions to cross Hemet-Ryan Airport westbound at or above 2900, then climb via HDF VOR R-093 to HDF VOR, thence... **Rwy 23**, climbing right turn via HDF VOR R-108 to HDF VOR, thence...or climb in visual conditions to cross Hemet-Ryan Airport westbound at or above 2900, then climb via HDF VOR R-093 to HDF VOR, thence...

....climb in HDF VOR holding pattern, (SE, right turns, 315° inbound), to cross HDF VOR at or above MEA/ MCA for direction of flight.

NOTE: **Rwy 5**, road and vehicle 200' from departure end of runway, on centerline, 15' AGL/1534' MSL. **Rwy 23**, road and vehicle 394' from departure end of runway, 545' left of centerline, 15' AGL/1524' MSL. Tree 1.4 NM from departure end of runway, 2613' right of centerline, 100' AGL/1979' MSL.



IMPERIAL, CA
IMPERIAL COUNTY (IPL)
AMDT 2A 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2¼ or std. w/ min. climb of 220' per NM to 400, or alternatively, with standard take-off minimums and a normal 200' per NM climb gradient, take-off must occur no later than 1800' prior to DER.

DEPARTURE PROCEDURE: **Rwys 8, 32**, turn right. **Rwy 14**, climb runway heading. **Rwy 26**, turn left. All aircraft climb direct IPL VORTAC.

NOTE: **Rwy 8**, multiple VASI beginning 687' from DER, 31' right of centerline, up to 5' AGL/-52' MSL. Antenna on building 1033' from DER, 703' left of centerline, 45' AGL/-12' MSL. Light on pole, 1984' from DER, 386' left of centerline, 55 ft AGL/-2' MSL. **Rwy 14**, building 1770' from DER, 38' left of centerline, 45' AGL/-11' MSL. Road 430' from DER, 291' left of centerline, 15' AGL/-41' MSL. Sign 1733' from DER, 35' left of centerline, 45' AGL/-11' MSL. Pole 1457' from DER, 393' right of centerline, 37' AGL/-19' MSL. **Rwy 26**, multiple obstruction lights on poles beginning 1509' from DER, 15' left of centerline, up to 60' AGL/3' MSL. Obstruction light on pole 1511' from DER, 459' right of centerline, 59' AGL/2' MSL. **Rwy 32**, obstruction light on tank, 823' from DER, 574' right of centerline 110' AGL/53' MSL. Numerous tanks beginning 3580' from DER, 296' right of centerline, up to 109' AGL/53' MSL. Tree 373' from DER, 387' right of centerline, 80' AGL/-24' MSL. Multiple lights beginning 243' from DER, 361' right of centerline, up to 28' AGL/-29' MSL. Pole 657' from DER, 370' left of centerline, 27' AGL/-30' MSL. Road 191' from DER, 237' left of centerline, 13' AGL/-44' MSL.

IMPERIAL BEACH NOLF (REAM FIELD)
(KNRS)

IMPERIAL BEACH, CA. 09043
Rwy 8,9,26 departures not authorized.
Rwy 27: Diverse departure not authorized.
Departures authorized for military rotorcraft only. Climb to 2000 via heading 272° to intercept NRS TACAN R-270. Cross NRS 1.5 DME at or above 800. Minimum ATC climb rate of 600'/NM til 800 with take-off occurring NLT 3038' prior to DER or cross DER at or above 320.

INYOKERN, CA
INYOKERN

TAKE-OFF MINIMUMS: **Rwys 2, 10, 15, 28, 33**, NA.
DEPARTURE PROCEDURE: **Rwy 20**, use LAKE HUGHES RNAV DEPARTURE.

LA VERNE, CA
BRACKETT FIELD

TAKE-OFF MINIMUMS: **Rwys 26L, 26R**, 300-1.
DEPARTURE PROCEDURE: **Rwys 8L, 8R**, climb via heading 079° to 1500, then climbing right turn via heading 195° and POM R-164 to PRADO Int. **Rwys 26L, 26R**, climb via heading 259° to 1400, then climbing left turn via heading 130° and POM R-164 to PRADO Int.

Aircraft departing PRADO Int heading 141° clockwise 290° climb on course. All others climb in PRADO Int holding pattern (hold north, right turn, 164° inbound) to depart PRADO Int at or above: 291° clockwise 340°, 4500; 341° clockwise 050°, 6800; 051° clockwise 090°, 5200; 091° clockwise 140°, 4200.

NOTE: **Rwy 26L**, multiple trees and antenna beginning 370' from departure end of runway, 269' left of centerline up to 100' AGL/1116' MSL. Multiple trees beginning 896' from departure end of runway, 70' right of centerline, up to 100' AGL/1010' MSL. Multiple buildings and tanks beginning 2732' from departure end of runway, 416' right of centerline, up to 50' AGL/1230' MSL. **Rwy 26R**, hangar 241' from departure end of runway, 326' right of centerline, 35' AGL/994' MSL. Multiple trees beginning 1473' from departure end of runway, 807' left of centerline, up to 100' AGL/1116' MSL. Tank and trees beginning 2510' from departure end of runway, 503' right of centerline, up to 100' AGL/1289' MSL.

LANCASTER, CA
GENERAL WILLIAM J. FOX AIRFIELD (WJF)
ORIG-A 09267 (FAA)

DEPARTURE PROCEDURE: Climb southeastbound on R-299 to PMD VORTAC. Depart PMD at published MCA for direction of flight.
NOTE: **Rwy 6**, trees beginning 1170' from DER, 590' right of centerline, up to 44' AGL/2374' MSL.

LOMPOC, CA
LOMPOC

TAKE-OFF MINIMUMS: **Rwy 7**, std. with a min. climb of 425' per NM to 1400, or 1000-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 7**, climbing right turn. For climb in visual conditions: cross Lompoc Airport eastbound at or above 1200 MSL. **Rwy 25**, turn right heading 130°.
All aircraft climb to 6000 via GVO R-278 to GVO VORTAC. Aircraft departing GVO R-120 CW R-020 climb on course, all others climb in GVO holding pattern (NW, right turns, 127° inbound) to depart GVO VORTAC at or above MEA for route of flight.

NOTE: **Rwy 7**, trees 3583' from departure end of runway, 2.3 NM right of centerline, 50' AGL/889' MSL. Trees 1.2 NM from departure end of runway, 2.2 NM right of centerline, 50' AGL/791' MSL. Trees 1.6 NM from departure end of runway, 1.9 NM right of centerline, 50' AGL/743' MSL.

LONG BEACH, CA

LONG BEACH (DAUGHERTY FIELD)

TAKE-OFF MINIMUMS: **Rwy 16L**, 400-1½ or std. w/ min climb of 321' per NM to 500. **Rwy 16R**, 400-1 or std. w/ min. climb of 518' per NM to 500. **Rwy 25L**, std. w/ min. climb of 225' per NM to 2300. **Rwy 25R**, std. w/ min. climb of 223' per NM to 2200. **Rwys 34L,34R**, NA- Environmental and noise abatement.

DEPARTURE PROCEDURE: **Rwys 7L,7R**, climb heading 076° to 800, then climbing right turn direct SLI VORTAC and SLI R-210 to PADDR INT. **Rwy 12**, climb heading 121° to intercept SLI VORTAC R-210 to PADDR INT. **Rwys 16L,16R**, climb heading 166° to 800, then climbing right turn heading 180° and SLI VORTAC R-210 to PADDR INT. **Rwys 25L,25R**, climb heading 256° to 800, then climbing left turn heading 200° and LAX VORTAC R-145 to PADDR INT. **Rwy 30**, climb heading 301° to 800, then climbing left turn heading 200° and LAX VORTAC R-145 to PADDR INT.

NOTE: **Rwy 7L**, sign 287' from DER, 173' left of centerline, 8' AGL/45' MSL. Vehicle on road 320' from DER, 248' left of centerline, 13' AGL/50' MSL. Light 468' from DER, 307' left of centerline, 19' AGL/56' MSL. Tree 1326' from DER, 75' left of centerline, 60' AGL/97' MSL. Trees beginning 579' from DER, 7' right of centerline, up to 71' AGL/108' MSL. Hangar 347' from DER, 416' right of centerline, 13' AGL/50' MSL. **Rwy 7R**, hangar 260' from DER, 498' left of centerline, 31' AGL/64' MSL. Multiple trees beginning 1408' from DER, 1' left of centerline, up to 64' AGL/94' MSL. Light 459' from DER, 581' right of centerline, 14' AGL/44' MSL. Antenna obstruction light 1473' from DER, 822' right of centerline, 88' AGL/115' MSL. **Rwy 12**, multiple trees beginning 1431' from DER, 469' left of centerline, up to 66' AGL/86' MSL. Light 1127' from DER, 606' left of centerline, 36' AGL/56' MSL. Multiple trees beginning 970' from DER, 392' right of centerline, up to 64' AGL/87' MSL. Spire 3095' from DER, 1183' right of centerline, 92' AGL/115' MSL. **Rwy 16L**, terrain beginning 155' from DER, 152' left of centerline, up to 40' MSL. Multiple trees beginning 427' from DER, 136' left of centerline, up to 32' AGL/109' MSL. Multiple lights, buildings and lights on buildings beginning 285' from DER, 256' left of centerline, up to 113' AGL/159' MSL. Multiple flag poles 1165' from DER, 8' left of centerline, up to 60' AGL/116' MSL. Rising terrain beginning 156' from DER, 100' right of centerline 40' MSL. Multiple trees beginning 296' from DER, 149' right of centerline, up to 38' AGL/218' MSL. Multiple buildings beginning 2057' from DER, 253' right of centerline, up to 30' AGL/91' MSL. **Rwy 16R**, rising terrain beginning 29' from DER on centerline, up to 309' MSL. Multiple trees beginning 835' from DER, 46' left of centerline, up to 112' AGL/156' MSL. Sign 1453' from DER, 139' left of centerline, 50' AGL/94' MSL. Pole 3034' from DER, 302' left of centerline, 91' AGL/135' MSL. Light on tank 4079' from DER, 114' left of centerline, 108' AGL/152' MSL. Multiple tower antennas beginning 8017' from DER, 1913' left of centerline, up to 291' AGL/335' MSL. Antenna on hangar 352' from DER, 399' right of centerline, 38' AGL/82' MSL. Multiple trees beginning 787' from DER, 319' right of centerline, 32' AGL/293' MSL. Multiple poles beginning 2028' from DER, 295' right of centerline, up to 241' AGL/248' MSL. Chimney on building, 4661' from DER, 1553' right of centerline, 33' AGL/353' MSL.

LONG BEACH (DAUGHERTY FIELD) (CON'T)

Rwy 25L, multiple trees beginning 2407' from DER, 111' left of centerline, up to 38' AGL/117' MSL. Obstruction light on tower 2493' from DER, 503' left of centerline, 69' AGL/152' MSL. Rising terrain beginning 110' on centerline, up to 66' MSL. Obstruction light rod on hangar, 1149' from DER, 793' right of centerline, 109' AGL/169' MSL. Antenna 3821' from DER, 439' right of centerline, 66' AGL/155' MSL. **Rwy 25R**, Ford sign beginning 551' from DER, 27' right of centerline, up to 100' AGL/159' MSL. Railroad beginning 202' from DER, 3' left of centerline, 66' AGL/155' MSL. Multiple lights and light poles beginning 321' from DER, 111' left of centerline, up to 32' AGL/92' MSL. Sign 1142' from DER, 33' left of centerline, 35' AGL/104' MSL. Multiple trees beginning 1142' from DER, 9' left of centerline, up to 67' AGL/146' MSL. Multiple obstruction lights beginning 67' from DER, 59' right of centerline, up to 202' AGL/260' MSL. Multiple trees beginning 1246' from DER, 1' right of centerline, up to 87' AGL/145' MSL. **Rwy 30**, railroad beginning 647' from DER, on centerline, up to 27' AGL/91' MSL. Multiple antennas, rods, vents and lights on buildings beginning 356' from DER, 289' left of centerline, up to 27' AGL/87' MSL. Multiple poles beginning 2061' from DER, 312' left of centerline, up to 51' AGL/124' MSL. Railroad beginning 207' from DER, 485' right of centerline, up to 25' AGL/ 81' MSL. Multiple obstruction lights and poles beginning 632' from DER, 240' right of centerline, up to 66' AGL/142' MSL. Multiple trees beginning 1701' from DER, 136' right of centerline, up to 73' AGL/146' MSL. Building 2617' from DER, 802' right of centerline, 63' AGL/136' MSL.

LOS ALAMITOS AAF (KSLI)

LOS ALAMITOS, CA

..... **Rwy 22L/R**, 300-1*
 *Or standard with minimum climb of 230/NM to 400.
Rwy 4L/R climbing right turn; **Rwy 22L/R** climbing left turn. All aircraft climb direct SLI VORTAC.
 Aircraft departing SLI VORTAC R-040 CW 345 climb on course. All others continue climb via the SLI R-171 southbound then climbing right turn direct SLI VORTAC to cross at or above 4600'.

LOS ANGELES, CA

LOS ANGELES INTL (LAX)

AMDT 12 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6R**, 200-1¼ or std. with a min. climb of 275' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 6L/R, 7L/R**, climb to 2000 heading 070°, then climbing right turn, thence... **Rwys 24L/R**, climb to 2000 heading 250°, then climbing left turn, thence... **Rwys 25L/R**, turbojet climb to 2000 heading 250°, then climbing left turn, thence...non-turbojet climb to 2000 heading 250°, at the SMO R-154 turn left heading 200°, thence...

...climb direct SLI VORTAC, then climb on course.

NOTE: **Rwy 6L**, buildings and signs beginning 1693' from departure end of runway, 339' left of centerline, up to 50' AGL/201' MSL. **Rwy 6R**, antenna on building 560' from departure end of runway, 479' right of centerline, 18' AGL/127' MSL, obstruction light on building 5550' from departure end of runway, 1791' right of centerline, 202' AGL/306' MSL, obstruction light on sign and sign beginning 1866' from departure end of runway, 920' left of centerline, up to 49' AGL/161' MSL. **Rwy 7L**, obstruction light on blast fence 168' from departure end of runway, 33' left of centerline, 14' AGL/106' MSL, poles beginning 1290' from departure end of runway, 505' left of centerline, up to 55' AGL/147' MSL, antenna on building 1576' from departure end of runway, 315' left of centerline, 55' AGL/147' MSL, sign and railroad beginning 351' from departure end of runway, 10' left of centerline, up to 29' AGL/124' MSL, railroad 275' from departure end of runway, 500' right of centerline, 23' AGL/115' MSL, approach light and obstruction light on LOC beginning 979' from departure end of runway, on runway centerline, up to 27' AGL/119' MSL. **Rwy 7R**, trees and building beginning 790' from departure end of runway, 606' right of centerline, up to 58' AGL/157' MSL.

Rwy 24L, bush 956' from departure end of runway, 600' left of centerline, 40' AGL/148' MSL. Light poles beginning 273' from departure end of runway, 425' left of centerline, up to 10' AGL/120' MSL, antenna on pole 1357' from departure end of runway, 286' right of centerline, 36' AGL/144' MSL, light poles and bushes beginning 239' from departure end of runway, 321' right of centerline, up to 8' AGL/116' MSL. **Rwy 24R**, obstruction light on glideslope 212' from departure end of runway, 399' left of centerline, 39' AGL/151' MSL. **Rwy 25L**, tree and pole beginning 2366' from departure end of runway, 764' left of centerline, up to 80' AGL/197' MSL, transmission towers beginning 2800' from departure end of runway, 926' left of centerline, up to 71' AGL/192' MSL, bush 133' from departure end of runway, 397' left of centerline, 4' AGL/123' MSL.

WHITEMAN

TAKE-OFF MINIMUMS: **Rwys 12, 30**, 2900-2 or std. with a min. climb of 350' per NM to 4300.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct VNY VOR/DME. **Rwy 30**, climbing left turn heading 260°. **All aircraft** climb to 4500 via VNY R-325, then climbing left turn direct VNY VOR/DME.

MARCH ARB (KRIV)

RIVERSIDE, CA AMDT 2, 09323

Rwy 32, 1200-3*

* Or standard with a minimum climb rate of 240 ft/NM to 3100'.

Rwy 14,

Diverse Departure:

Rwy 14 appropriate departure procedure Standard, proceed direct HDF VOR, then right turn to sector diverse departure between 155° clockwise to 181° only. Max airspeed 250 KIAS or

VCOA route SKYES intersection: 2300-3 for Climb in Visual Conditions within 6.5 NM of March ARB, cross March ARB at or above 3700' MSL, then climb and maintain 6000 direct HDF VOR, then via HDF R-153 to HDF R-153/PDZ R-130, direct SKYES INT. Do not exceed 250 KIAS until passing SKYES. Aircraft shall advise ATC prior to executing VCOA.

Rwy 32,

Diverse Departure:

Rwy 32 appropriate departure procedure. Turn left to sector diverse departure between 150° to 135° counter-clockwise only. Maximum 250 KIAS or

VCOA route SKYES intersection: 2300-3 for Climb in Visual Conditions within 6.5 NM of March ARB, cross March ARB at or above 3700' MSL, then climb and maintain 6000 direct HDF VOR, then via HDF R-153 to HDF R-153/PDZ R-130, direct SKYES INT. Do not exceed 250 KIAS until passing SKYES. Aircraft shall advise ATC prior to executing VCOA.

TAKE-OFF OBSTACLES: **Rwy 14**, Tree 150' AGL/1630' MSL, 2248' from DER, 1000' right of centerline. Tree 150' AGL/1630' MSL, 1920' from DER, 1000' right of centerline. Tree 150' AGL/1630' MSL, 1789' from DER, 1000' right of centerline. Tree 150' AGL/1622' MSL, 2278' from DER, 1002' left of centerline. Aircraft 65' AGL/1550' MSL, 28' inward of DER, 542' left of centerline. Aircraft 30' AGL/1516' MSL, 31' inward of DER, 298' left of centerline. Use caution when departing Rwy 14, rapid rising terrain within 3.5 NM SE of March ARB. **Rwy 32**, Aircraft 65' AGL/1600' MSL, 30' from DER, 526' right of centerline. Aircraft 30' AGL/1565' MSL, 5' from DER, 282' right of centerline.

MIRAMAR MCAS

(MITSCHER FLD) (KNKX), CA. 09351

Rwy 6L/R 340° through 150° CW-Civil, standard with minimum climb of 300'/NM to 7600; Military, standard with minimum climb of 280'/NM to 7600. **Rwy 24L/R** 340° through 100° CW-Civil standard with minimum climb of 290'/NM to 7600; Military, standard with minimum climb of 270'/NM to 7600.

TAKE-OFF OBSTACLES: **Rwy 6L**, Bldg 539' MSL, 2381' from DER, 1084' left of centerline. **Rwy 24R**, Pylon 473' MSL, 1879' from DER, 673' left of centerline.

MOJAVE, CA

MOJAVE (MHV)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,8,12**, NA-restricted airspace. **Rwys 22, 26**, std. with a min. climb of 415' per NM to 6800 or 4200-3 for climb in visual conditions. **Rwy 30**, std. with a min. climb of 485' per NM to 6300 or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 22**, climb to 8000 via heading 218° and LHS R-023 to LHS VORTAC or for climb in visual conditions: cross Mojave Airport southwest bound at or above 6800, then climb to 8000 via LHS R-023 to LHS VORTAC. **Rwys 26, 30**, climbing left turn to 8000 via heading 190° and LHS R-023 to LHS VORTAC or for climb in visual conditions: cross Mojave Airport southwest bound at or above 6800, then climb to 8000 via LHS R-023 to LHS VORTAC.

NOTE: **Rwy 30**, vehicle on road 3181' from departure end of runway, 22' right of centerline, 17' AGL/2896' MSL. Train 1441' from departure end of runway, 351' right of centerline, 23' AGL/2882' MSL.

MURRIETA/TEMECULA, CA

FRENCH VALLEY

TAKE-OFF MINIMUMS: **Rwy 18**, NA. **Rwy 36**, 700-2 or std. with a min. climb of 340' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 36**, climb runway heading to 2200, then climbing left turn via HDF R-145 to HDF VOR. Aircraft departing HDF VOR 065° CW 352° climb on course. Aircraft departing northeastbound, climb in HDF holding pattern, (SE, right turns, 315° inbound) to depart HDF VOR at or above: 353° CW 054°, 6800; 055° CW 064°, 5800; before proceeding on course.

NEEDLES, CA

NEEDLES

DEPARTURE PROCEDURE: **Rwys 2, 29**, turn right. **Rwy 20**, turn left. **All aircraft** climb direct EED VORTAC, then continue climb on curse. Departures on V12, J6, and J8 cross EED VORTAC at or above 2600.

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

SAN DIEGO, CA. 09127

Rwy 11, diverse departures authorized 129° CW 182°. Make immediate right turn to assigned heading within 1.4 DME of NZY TACAN to avoid over flying the City of Coronado.

Rwy 18, diverse departures authorized 129° CW 175°.

Rwy 29, diverse departures not authorized. Use published DP or 800-2¼ for climb in visual conditions via immediate climbing left turn to cross North Island airport at or above 800' MSL, during visual climb do not overfly Point Loma and remain south of Rwy 11-29, then climb to 2000 via heading 175°, expect radar vectors to join assigned route. Cross DER at or above 35' AGL (54' MSL).

Rwy 36, departure not authorized.

TAKE-OFF OBSTACLES:

Rwy 11, Trees 52' AGL/78' MSL, 108' from DER, 336' right of centerline; Trees 30' AGL/54' MSL, 994' from DER, 733' left of centerline.

Rwy 29, Shipping Channel accommodating vessels up to 200' AGL (206' MSL with tidal range), starting 2577' from DER on centerline. Twin Towers 145' AGL/534' MSL, 1.4 NM from DER, 2645' left of centerline; Tower 479' MSL, 1.5 NM from DER, 1969' left of centerline; Tower 100' AGL/ 455' MSL, 1.5 NM from DER, 2054' left of centerline; Tower 120' AGL/544' MSL, 1139' from DER, 2.1 NM left of centerline.

OCEANSIDE, CA

OCEANSIDE MUNI

TAKE-OFF MINIMUMS: **Rwy 6**, 400-1 or std. with a min. climb of 320' per NM to 500. **Rwy 24**, 300-1 or std. with a min. climb of 670' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb via heading 235° to 1500, then climbing right turn direct OCN VORTAC.

ONTARIO, CA

ONTARIO INTL

TAKE-OFF MINIMUMS: **Rwys 8L,8R**, CAT C, D 1000-2 or std. with a min. climb of 220' per NM to 2200.

DEPARTURE PROCEDURE: **Rwys 8L,8R**, climbing right turn. **Rwys 26L,26R**, climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CWR-140 and R-231 CWR-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CW R-090, 6700; R-141 CWR-230, 4000.

OXNARD, CA

OXNARD

TAKE-OFF MINIMUMS: **Rwy 7**, 2100-5 or std. with a min. climb of 290' per NM to 2600.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn. **Rwy 25**, climb runway heading. **All aircraft** continue climb to 6000 (or assigned altitude) via CMA R-249 to SQUID Int. Aircraft departing SQUID Int 040° CW 300° climb on course. All others continue climb in SQUID holding pattern (Hold W, right turns, 069° inbound) to cross SQUID INT at or above 2300.

NOTE: **Rwy 7**, 59' AGL tree 527' from departure end of runway, 501' left of centerline.

PALM SPRINGS, CA

BERMUDA DUNES

TAKE-OFF MINIMUMS: **Rwy 28**, CAT A,B 1200-2 or std. with a min. climb of 450' per NM to 1400. CAT C,D 2100-2 or std. with a min. climb of 490' per NM to 3400.

DEPARTURE PROCEDURE: **Rwy 10**, climbing right turn heading 150°. **Rwy 28**, climbing left turn heading 090°. **All aircraft** continue climb via TRM R-304 to TRM VORTAC. Aircraft departing TRM R-095 CW R-165 climb on course. All others continue climb in TRM holding pattern (E, right turns, 289° inbound) to cross TRM VORTAC at or above: R-166 CW 290°, 6500; 291° CWR-310, 4900; R-311 CW 094°, 3200.

JACQUELINE COCHRAN RGNL

TAKE-OFF MINIMUMS: **Rwy 30**, CAT C,D 3400-2 or std. with a min. climb of 410' per NM to 3700. **Rwy 35**, CAT A,B 400-2 or std. with a min. climb of 210' per NM to 400. CAT C,D 3400-2 or std. with a min. climb of 410' per NM to 3700.

DEPARTURE PROCEDURE: **Rwys 12,17**, climbing left turn. **Rwys 30, 35**, climbing right turn heading 150°. Aircraft departing TRM R-101 CW R-139, climb on course. All others continue climb east-bound via the TRM R-109 then climbing right turn to cross TRM VORTAC at or above: R-304 CW R-100, 4000; R-140 CW R-199, 4700; R-200 CW R-303, 6600.

PALM SPRINGS, CA (CON'T)

PALM SPRINGS INTL (PSP)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13L**, minimum climb of 440' per NM to 2300' or 5900-3 for climb in visual conditions. **Rwy 13R**, minimum climb of 422' per NM to 2300' or 5900-3 for climb in visual conditions. **Rwy 31L**, minimum climb of 386' per NM to 4500' or 5900-3 for climb in visual conditions. **Rwy 31R**, minimum climb of 405' per NM to 4500' or 5900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing left turn heading 090° to intercept TRM R-304 to TRM VORTAC or for climb in visual conditions cross Palm Springs Intl airport at or above 6300 then direct PSP VORTAC thence ... **Rwy's 31L/R**, climbing right turn direct PSP VORTAC thence ..., or for climb in visual conditions cross Palm Springs Intl airport at or above 6300 then direct PSP VORTAC thence ...

... via PSP R-124 and TRM R-304 to TRM VORTAC. **All Rwys** if not at MEA/MCA at TRM VORTAC, climb in TRM holding pattern (hold E, right turns, 289° inbound) until reaching MEA/MCA for assigned route of flight.

NOTE: **Rwy 13L**, trees beginning 299' from departure end of runway, 530' left of centerline, up to 66' AGL/465' MSL. HGR 935' from departure end of runway, 552' left of centerline, 31' AGL/440' MSL. **Rwy 13R**, trees beginning 1170' from departure end of runway, 239' right of centerline, up to 100' AGL/599' MSL. Poles beginning 815' from departure end of runway, 209' right of centerline, up to 44' AGL/433' MSL. Light 843' from departure end of runway, 441' right of centerline, 38' AGL/427' MSL. Antenna 1642' from departure end of runway, 26' right of centerline, 53' AGL/442' MSL. **Rwy 31L**, poles beginning 1641' from departure end of runway, 125' right of centerline, up to 31' AGL/550' MSL. Towers beginning 2418' from departure end of runway, 402' left of centerline, up to 59' AGL/560' MSL. Tree 3016' from departure end of runway, 66' right of centerline, 43' AGL/562' MSL. **Rwy 31R**, multiple trees and bushes beginning 305' from departure end of runway, 233' right of centerline, up to 48' AGL/507' MSL. Vent on building 919' from departure end of runway, 399' right of centerline, 15' AGL/474' MSL.

PALMDALE, CA

PALMDALE RGNL/USAF PLANT 42

TAKE-OFF MINIMUMS: **Rwy 22**, 1000-1 or std. with a min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **Rwys 4, 7**, turn left.

Rwys 22, 25, turn right. Eastbound V12, J6 climb on course. All others climb on R-298 to FISCH Int. (northwestbound climb in holding pattern SE, left turns, 298° inbound. Depart at 8100), continue climb direct PMD VORTAC to depart at or above published MCA.

PASO ROBLES, CA

PASO ROBLES MUNI

DEPARTURE PROCEDURE: All departures maintain 250 kts or less until inbound to PRB. **Rwy 1**, climb to 3000 via heading 280° to intercept PRB R-326 outbound. V248 northbound climb on course. All others climbing right turn to 4500 direct PRB. **Rwy 13**, climb to 3000 via heading 160° to intercept PRB R-133 outbound. V25 southbound continue climb on course. All others climbing right turn to 4500 direct PRB. **Rwy 19**, climb to 3000 via heading 150° to intercept PRB R-179 outbound. V113 southbound continue climb on course. All others climbing left turn to 4500 direct PRB. **Rwy 31**, climb to 3000 via heading 340° to intercept PRB R-326 outbound. V248 northbound climb on course. All others climbing right turn to 4500 direct PRB.

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

OXNARD, CA 09267

DEPARTURE PROCEDURE:
Rwy 3, Diverse departures authorized 210° to 250° CW. Right turns on departure not authorized. Turn left to assigned heading within 3 DME of NTD TACAN. Do not exceed 310 KIAS until established on assigned heading.
Rwy 9, Diverse departures not authorized.
Rwy 21, Diverse departures authorized 150° to 250° CW.
Rwy 27, Diverse departures authorized 150° to 250° CW. Right turns on departure not authorized. Turn left to assigned heading. Do not exceed 310 KIAS until established on assigned heading.
 CAUTION: Mountainous terrain NW thru SE.
 TAKE-OFF OBSTACLES: **Rwy 3**, Tower 90' MSL, 3005' from DER, 1238' left of centerline; Trees 90' MSL, 2920' from DER, 1199' left of centerline.

RAMONA, CA

RAMONA (RNM)

AMDT 3 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, std. w/ min. climb of 500' per NM to 4000, or 3800-3 for climb in visual conditions. **Rwy 27**, std. w/ min. climb of 332' per NM to 2600, or 3800-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwy 9**, climb via heading 088° to 4000, then climbing left turn via heading 330° and JLI VORTAC R-263/OCN VORTAC R-083 to ROBNN INT before proceeding on course, or for climb in visual conditions, cross Ramona airport at or above 5000 before proceeding on course. **Rwy 27**, climb via heading 268° to 2600, then climbing right turn via PGY VORTAC R-336 to ROBNN INT before proceeding on course, or for climb in visual conditions, cross Ramona airport at or above 5000 before proceeding on course.
 NOTE: **Rwy 9**, sign 23' from DER, 178' left of centerline, 9' AGL/1399' MSL. Tree 94' from DER, 343' right of centerline, 20' AGL/1403' MSL. Trees beginning 2468' from DER, 180' right of centerline, up to 100' AGL/1539' MSL. Trees beginning 2637' from DER, 305' left of centerline, up to 100' AGL/1487' MSL. **Rwy 27**, tree 657' from DER, 12' left of centerline, 100' AGL/1499' MSL. Trees 1.85 NM from DER, 92' left of centerline, up to 100' AGL/1719' MSL.

REDLANDS, CA

REDLANDS MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, NA. **Rwy 26**, 1700-2 or std. with a min. climb of 300' per NM to 4000.
 DEPARTURE PROCEDURE: Climbing left turn direct PDZ VORTAC. Aircraft departing PDZ VORTAC R-091 CW R-140 and R-231 CWR R-280 climb on course. All others continue in PDZ VORTAC holding pattern (hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above, R-281 CW R-090, 7700; R-141 CWR R-230, 4900.

RIALTO, CA

RIALTO MUNI-MIRO FIELD

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA.
 DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb via PDZ R-012 to PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CWR R-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 6700; R-141 CWR-230, 4000.

RIVERSIDE, CA

RIVERSIDE MUNI

TAKE-OFF MINIMUMS: **Rwy 9**, CAT A, B 1200-2 or std. with a min. climb of 210' per NM to 2300. CAT C, D 2100-2 or std. with a min. climb of 240' per NM to 3500.
Rwy 16, NA. **Rwy 27**, CAT C, D 2400-2 or std. with a min. climb of 230' per NM to 3800. **Rwy 34**, CAT A, B 700-2 or std. with a min. climb of 400' per NM to 1600. CAT C, D 1600-2 or std. with a min. climb of 400' per NM to 2600.
 DEPARTURE PROCEDURE: **Rwy 9**, climbing right turn. **Rwy 34**, climbing left turn. **Rwy 27**, climb heading 280° to 2000, then climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CW R-090, 6700; R-141 CW R-230, 4000; or Airway MEA.

SAN BERNARDINO, CA

SAN BERNARDINO INTL

TAKE-OFF MINIMUMS: **Rwy 6**, CAT A, B 2100-2 or std. with a min. climb of 340' per NM to 3700. CAT C, D 3100-2 or std. with a min. climb of 480' per NM to 4600.
 DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CWR R-280 climb on course. All others continue climb in PDZ holding pattern (Hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 7700; R-141 CWR R-230, 4900.

SAN CLEMENTE ISLAND NALF (FREDERICKSHERMAN FLD)(KNUC)

SAN CLEMENTE ISLAND, CA 09071

Rwy 5: Diverse departures authorized 090° to 233° CCW.
Rwy 23: Diverse departures authorized 160° to 053° CW.
 TAKEOFF OBSTACLES: **Rwy 5**, Pylon 198' MSL, 44' from DER, 273' right of centerline.

SAN DIEGO, CA

BROWN FIELD MUNI (SDM)

AMDT 3A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8L**, Cat. A,B 1900-2 or std. w/min. climb of 460' per NM to 2600. Cat. C,D 3100-3 or std. w/min. climb of 520' per NM to 3900.

Rwys 8R,26L, NA - ATC.

DEPARTURE PROCEDURE: **Rwy 8L**, climbing left turn.

Rwy 26R, climbing right turn. **All aircraft**, climb heading 280° to intercept MZB R-160 northwestbound to MZB VORTAC.

NOTE: **Rwy 26R**, trees 2184' from departure end of runway, 778' left of centerline, 60' AGL/561' MSL.

MONTGOMERY FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, 1500-2 or std. with a min. climb of 290' per NM to 1700.

DEPARTURE PROCEDURE: **Rwys 5, 10L/R**, climbing right turn. **Rwys 28L/R**, climbing left turn. **All aircraft** climb direct to MZB VORTAC. Aircraft departing MZB R-090 CW R-360 climb on course. All others climb in MZB holding pattern (W, right turns, 075° inbound) to cross MZB VORTAC at or above 1800.

SAN DIEGO INTL

TAKE-OFF MINIMUMS: **Rwy 9**, CAT A,B 400-1 or 300-1 with a min. climb of 610' per NM to 600. CAT C,D 300-1 with a min. climb of 610' per NM to 2300. **Rwy 27**, 300-1½ or std. with a min. climb of 317' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 600, then climbing left turn direct MZB VORTAC. **Rwy 27**, climb runway heading to 900, then climbing right turn direct MZB VORTAC. Aircraft departing MZB VORTAC R-180 CW R-360 climb on course. All others climb in MZB VORTAC holding pattern (W, right turns, 075° inbound) to cross MZB VORTAC at or above 2000.

NOTE: **Rwy 9**, trees 792' from departure end of runway, 142' left of centerline, 60' AGL/99' MSL. Antenna 740' from departure end of runway, 302' right of centerline, 62' AGL/82' MSL. Antenna 1946' from departure end of runway, 969' left of centerline, 126' AGL/192' MSL. Trees 1377' from departure end of runway, 285' left of centerline, 80' AGL/135' MSL. Trees 4625' from departure end of runway, 1414' left of centerline, 250' AGL/385' MSL. **Rwy 27**, trees 1 mile from departure end of runway, 685' right of centerline, 220' AGL/253' MSL. Trees 3118' from departure end of runway, 846' right of centerline, 120' AGL/149' MSL. Flagpole 2511' from departure end of runway, 700' left of centerline, 90' AGL/116' MSL.

SAN DIEGO (EL CAJON), CA

GILLESPIE FIELD

TAKE-OFF MINIMUMS: **Rwys 9L, 9R**, 900-2 or std. with a min. climb of 1000' per NM to 1600. **Rwy 17**, 500-1 or std. with a min. climb of 260' per NM to 800. **Rwys 27L, 27R**, CAT A,B 500-1 or std. with a min. climb of 370' per NM to 900. CAT C,D 2500-2 or std. with a min. climb of 370' per NM to 2500. **Rwy 35**, 1300-2 or std. with a min. climb of 460' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 9L, 9R, 27L, 27R**, climbing right turn. **Rwys 17, 35**, climbing left turn. **All aircraft** climb via heading 165° and MZB R-076 to MZB VORTAC.

SAN LUIS OBISPO, CA

SAN LUIS COUNTY RGNL

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA. **Rwy 11**, 1800-2 or std. with a min. climb of 320' per NM to 2300. **Rwy 29**, 1200-2 or std. with a min. climb of 390' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading to 900, then climbing right turn direct MQO VORTAC. **Rwy 29**, climb via runway heading and MQO R-050 to MQO VORTAC. **All aircraft** departing on MQO R-130 CW R-320 climb on course. All others continue climbing in MQO holding pattern (SE, left turns, 306° inbound) to cross MQO VORTAC at or above 4000.

SAN NICOLAS ISLAND NOLF (NSI)

SAN NICOLAS ISLAND, CA

Rwy 12: Diverse departures authorized 300° to 120° CW.

Rwy 30: Diverse departures not authorized. Rwy 30 climb heading 300° to 1300', then turn right to assigned heading.

Rwy 12-30 Obstacle identification surface begins 10 ft above departure end of runway.

TKOFF OBSTACLES: Rwy 30: 1076' MSL (589' AGL) Tower, 2805' past DER, 1882' left of centerline.

SANTA ANA, CA

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

AMDT 5 09239 (FAA)

DEPARTURE PROCEDURE: **Rwys 1L, 1R**, climbing left turn direct SLI VORTAC. **Rwys 19L, 19R**, climbing right turn direct SLI VORTAC. **All aircraft** climb in SLI holding pattern (hold South, left turns, 351° inbound) to cross SLI VORTAC at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 1L**, multiple trees beginning 466' from DER, 553' left of centerline, up to 85' AGL/127' MSL. Light pole 94' from DER, 490' left of centerline, 21' AGL/63' MSL. Obstruction light on DME 497' from DER, 625' right of centerline, 13' AGL/55' MSL. **Rwy 1R**, obstruction light on DME 497' from DER, 125' right of centerline, 13' AGL/55' MSL. Tree 1745' from DER, 309' right of centerline, 51' AGL/85' MSL. Light pole 1104' from DER, 307' right of centerline, 34' AGL/68' MSL. **Rwy 19R**, WSK on HGR 536' from DER, 605' left of centerline, 44' AGL/92' MSL. Multiple trees beginning 289' from DER, 500' right of centerline, up to 52' AGL/108' MSL. Light poles beginning 204' from DER, 490' right of centerline, up to 35' AGL/85' MSL. Tree 1574' from DER, 765' left of centerline, 59' AGL/113' MSL.

SANTA BARBARA, CA

SANTA BARBARA MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, std. with a min. climb of 280' per NM to 1200, or 1900-2½ for climb in visual conditions. **Rwy 33L, 33R**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 7**, climbing right turn via heading 170°, thence...., or for climb in visual conditions: cross Santa Barbara Muni Airport southbound at or above 1900, thence...**Rwys 15L, 15R**, climb via heading 152°, thence...**Rwy 25**, climbing left turn via heading 155°, thence...

...then via RZS R-185 to GOLET INT, climb in GOLET INT holding pattern (SE, right turns, 307° inbound), to cross GOLET INT at or above MEA for route of flight, before proceeding on course.

NOTE: **Rwy 7**, obstruction light on DME antenna, road and numerous trees beginning 350' from departure end of runway, 101' right of centerline, up to 55' AGL/74' MSL. Antennas, poles, tower, and numerous trees beginning 194' from departure end of runway, 11' left of centerline, up to 79' AGL/98' MSL. **Rwy 15L**, numerous trees beginning 1242' from departure end of runway, 119' right of centerline, up to 100' AGL/159' MSL. **Rwy 15R**, sign and numerous trees beginning 29' from departure end of runway, 94' right of centerline, up to 100' AGL/159' MSL. Tree 1325' from departure end of runway, 243' left of centerline, 19' AGL/59' MSL. **Rwy 25**, trees beginning 1999' from departure end of runway, 793' right of centerline, up to 67' AGL/86' MSL.

SANTA MARIA, CA

SANTA MARIA PUBLIC/ CAPTAIN G. ALLAN HANCOCK FIELD

TAKE-OFF MINIMUMS: **Rwy 12**, CAT C,D 3400-2 or std. with a min. climb of 310' per NM to 3600. **Rwy 20**, CAT A,B 1300-2 or std. with a min. climb of 250' per NM to 1500; CAT C,D 1600-2 or std. with a min. climb of 250' per NM to 2100.

DEPARTURE PROCEDURE: **Rwys 2, 12**, climbing left turn. **Rwy 20**, climbing right turn. **Rwy 30**, climb via runway heading. **All aircraft** climb direct GLJ VOR. Continue climb via GLJ R-300 northwestbound to 2000, then continue climbing direct MQO VORTAC.

NOTE: 400' - 550' trees beginning ¾ mile from departure end of Rwy 12.

SANTA MONICA, CA

SANTA MONICA MUNI

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min. climb of 325' per NM to 1100, or 1200-3 for climb in visual conditions.

Rwy 21, std. w/ min. climb of 215' per NM to 4000, or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to 5000 via SMO R-210 and LAX R-276 to SADDE INT, or for climb in visual conditions: cross SMO VOR/ DME at or above 1200 then continue climb to 5000 via SMO R-210 and LAX R-276 to SADDE INT. **Rwy 21**, climb to 5000 via SMO R-210 and LAX R-276 to SADDE INT, or for climb in visual conditions: cross SMO VOR/DME at or above 1200, then climb to 5000 via SMO R-210 and LAX R-276 to SADDE INT.

NOTE: **Rwy 3**, multiple signs and trees beginning 19' from departure end of runway, 300' right of centerline, up to 36' AGL/211' MSL, tower 5488' from departure end of runway, 1902' right of centerline, 150' AGL/325' MSL, light standard 19' from departure end of runway, 176' right of centerline, 6' AGL/181' MSL, multiple trees beginning 325' from departure end of runway, 227' left of centerline, up to 34' AGL/209' MSL, sign 56' from departure end of runway, 185' left of centerline, 6' AGL/ 181' MSL. **Rwy 21**, multiple trees and poles beginning 140' from departure end of runway, 247' right of centerline, up to 81' AGL/196' MSL, antenna on building 280' from departure end of runway, 486' right of centerline, 35' AGL/150' MSL, VOR 101' from departure end of runway, 255' left of centerline, 7' AGL/122' MSL.

SANTA YNEZ, CA

SANTA YNEZ

TAKE-OFF MINIMUMS: **Rwy 8**, CAT C,D 1100-2 or std. with a min. climb of 280' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 8**, turn left, climb to 6000 heading 260° and V27 to ORCUT Int. **Rwy 26**, climb to 6000 via RZS R-275 and V27 to ORCUT Int.

SHAFTER, CA

SHAFTER-MINTER FIELD

DEPARTURE PROCEDURE: **Rwys 12, 17**, turn right.

Rwys 30,35, turn left. Climb westbound to 4000 via V248. Westbound aircraft continue at 4000 on course. Eastbound aircraft turn right at 4000 direct EHF VORTAC.

TORRANCE, CA

ZAMPERINI FIELD

TAKE-OFF MINIMUMS: **Rwys 11L, 11R**, 400-1 or std. with a min. climb of 325' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 29L, 29R**, climb runway heading. **Rwys 11L, 11R**, climbing left turn to heading 290°. Both departures climb to 3000, intercept LAX R-170 to LIMBO Int.

TUSI AHP (KHGT),

HUNTER LIGGETT, CA AMDT 3, 08269

Helicopter use only. Climb on a heading between 010° CW to 190° from heliport (or a minimum climb rate of 530' per NM to 7800 for all other courses).

TWENTYNINE PALMS, CA

TWENTYNINE PALMS

TAKE-OFF MINIMUMS: **Rwys 17, NA. Rwys 8, 26, 35**, std. with a min. climb of 280' per NM to 5500.
 DEPARTURE PROCEDURE: **Rwys 8, 26, 35**, turn right direct TNP VORTAC. Eastbound on V264 continue climb on course. All others climb in TNP holding pattern (E, left turns, 255° inbound) to cross TNP VORTAC at or above 6000 before proceeding on course. Northeast bound on V514-538 cross TNP VORTAC at or above 7900.

TWENTYNINE PALMS SELF (NXP)

TWENTYNINE PALMS, CA 07354
 Diverse departure not authorized.

UPLAND, CA

CABLE

TAKE-OFF MINIMUMS: **Rwy 6**, 300-1 or std. with a min. climb of 240' per NM to 1900.
 DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue climb in PDZ holding pattern (E, right turns, 258° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 6700; R-141 CWR-230, 4000.

VAN NUYS, CA

VAN NUYS

TAKE-OFF MINIMUMS: **Rwys 16L, 16R**, 2500-2 or std. with a min. climb of 300' per NM to 3800. **Rwys 34L, 34R**, 3300-2 or std. with a min. climb of 425' per NM to 4500.
 DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climbing left turn. **Rwys 34L, 34R**, climbing right turn. **All aircraft** intercept VNY R-095 to DARTS Int. Aircraft eastbound via V186 and southeastbound via V459 climb on course. All others, continue climbing right turn direct VNY VOR/DME before proceeding on course.

VANDENBERG AFB (KVBG)

LOMPOC, CA09071
Rwy 12: GAVIATO ONE, 300-1.5

Rwy 12/30: All departures (GAVIATO ONE, VANDENBERG ONE, Diverse Departures Rwy 12/30, VCOA Rwy 12/30) CROSS DER AT OR ABOVE 35' AGL. **Rwy 12**: Diverse Departure Authorized: 6500-3 or standard with a minimum climb rate of 300'/NM to 8800, cross DER at or above 35' AGL/404' MSL. **Rwy 30**: Diverse Departure Authorized: 6400-3 or standard with a minimum climb rate of 270 ft/NM to 8800, cross DER at or above 35' AGL/274' MSL.

TAKE-OFF OBSTACLES: **Rwy 12** trees 40' AGL/479' MSL, 3814' from DER, 1126' right of centerline. Road with possible vehicles 10' AGL/443' MSL, 2961' from DER, 360' right of centerline. Trees 200' AGL/594' MSL, 1.3 NM from DER, 795' right of centerline. Trees 200' AGL/600' MSL, 1.1 NM from DER, 2250' right of centerline. Trees 200' AGL/604' MSL, 1.0 NM from DER, 90' right of centerline. Trees 200' AGL/600' MSL, 1.4 NM from DER, 2665' left of centerline. Trees 200' AGL/620' MSL, 6051' from DER, 2044' left of centerline. Trees 50' AGL/1375' MSL, 3.2 NM from DER, 5.0 NM left of centerline. Trees 107' AGL/546' MSL, 4548' from DER, 1479' right of centerline. **Rwy 12/30 VCOA**: For climb in Visual Conditions 2200-3, remain within 6.5 NM from airport, cross Vandenberg airport at or above 2400, then proceed as filed. Maximum airspeed 250 kts. Note: Aircrews must notify ATC prior to executing this VCOA procedure.

VICTORVILLE, CA

SOUTHERN CALIFORNIA LOGISTICS

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min. climb of 266' per NM to 3500 or 5300-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn heading 220°, thence...or for climb in visual conditions cross Southern California Logistics Airport at or above 8000 MSL before proceeding on course. **Rwys 17, 21**, climbing right turn heading 325°, thence... **Rwy 35**, climbing left turn heading 220°, thence...
 ...All aircraft climb via VCV VOR/DME R-269 to ETHER INT. Continue climb in ETHER holding pattern (NE PMD VORTAC, left turn, 247° inbound) to MEA for direction of flight.

NOTE: **Rwy 3**, pole 408' from departure end of runway, 511' right of centerline, 29' AGL/2873' MSL. Terrain beginning 153' from departure end of runway, 41' right of centerline, up to 3196' MSL. Terrain beginning 17' from departure end of runway, 104' left of centerline, up to 2855' MSL. Tree 2.1 NM from departure end of runway, 3735' right of centerline, 50' AGL/3269' MSL. **Rwy 17**, sign 248' from departure end of runway, 277' left of centerline, 14' AGL/2896' MSL. Antenna on building 701' from departure end of runway, 203' left of centerline, 20' AGL/2902' MSL.

TAKE-OFF MINIMUMS

Rwy 3: Standard with minimum climb of 340 feet per NM to 5900.
Rwy 13: Standard with minimum climb of 230 feet per NM to 8200.
Rwy 21: Standard with minimum climb of 365 feet per NM to 6000.
Rwy 31: Standard with minimum climb of 450 feet per NM to 5800.

NOTE: GPS required.

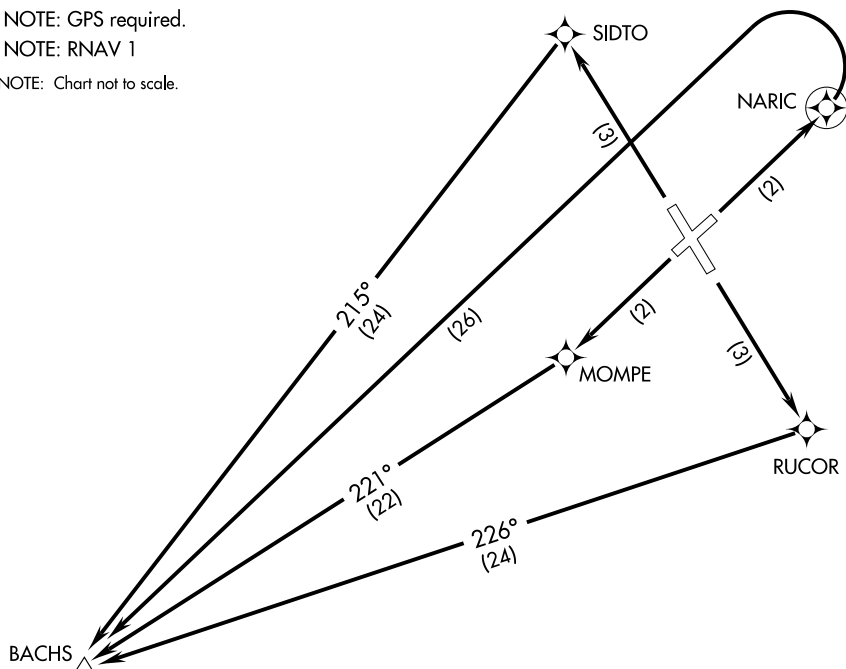
NOTE: RNAV 1

NOTE: Chart not to scale.

SEATTLE CENTER

127.6 346.35

CTAF 122.8



TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees, buildings, poles and a road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4659' MSL.
Rwy 21: Trees and road with vehicles beginning 1' from DER, right and left of centerline, to 100' AGL/4469' MSL.
Rwy 13: Trees and a road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4519' MSL.
Rwy 31: Trees and road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4469' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb to 9000 direct NARIC, then climbing left turn direct BACHS.

TAKE-OFF RUNWAY 13: Climb to 9000 direct RUCOR, turn right via 226° track to BACHS.

TAKE-OFF RUNWAY 21: Climb to 9000 direct MOMPE, then via 221° track to BACHS.

TAKE-OFF RUNWAY 31: Climb to 9000 direct SIDTO, turn left via 215° track to BACHS.

CHOIR TWO DEPARTURE (RNAV)

SEATTLE CENTER
127.6 346.35
CTAF 122.8TAKE-OFF MINIMUMS

Rwy 3: Standard with minimum climb of 367' per NM to 11000.

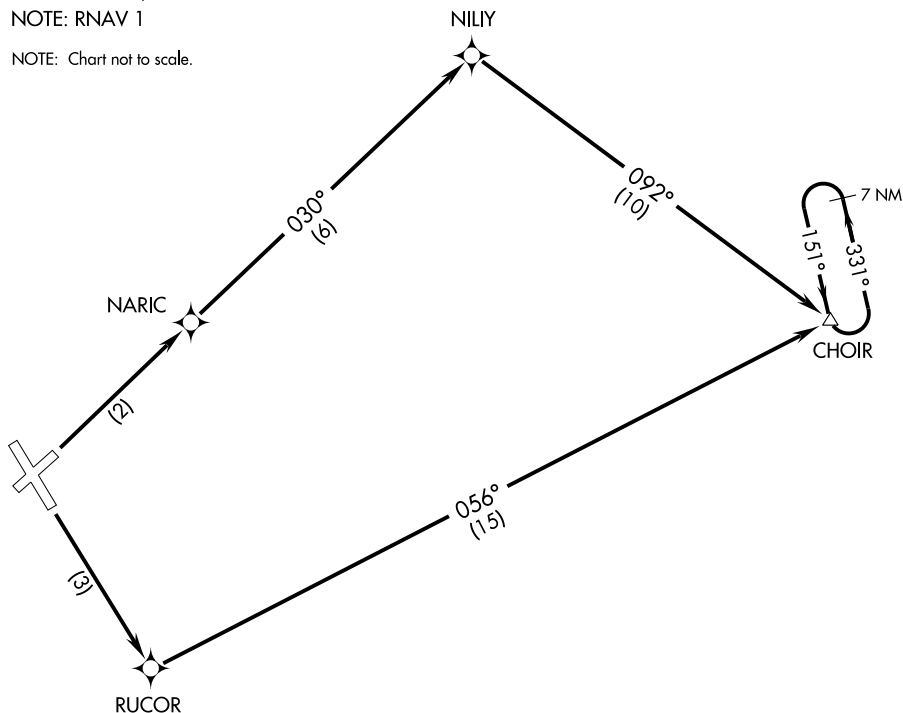
Rwy 13: Standard with minimum climb of 389' per NM to 11000.

Rwys 21 and 31: NA - ATC.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.

TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees, buildings, poles and a road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4659' MSL.

Rwy 13: Trees and road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4519' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb to 11000 direct NARIC and via 030° track to NILIY and via 092° track to CHOIR, Thence....TAKE-OFF RUNWAY 13: Climb to 11000 direct RUCOR and via 056° track to CHOIR, Thence....

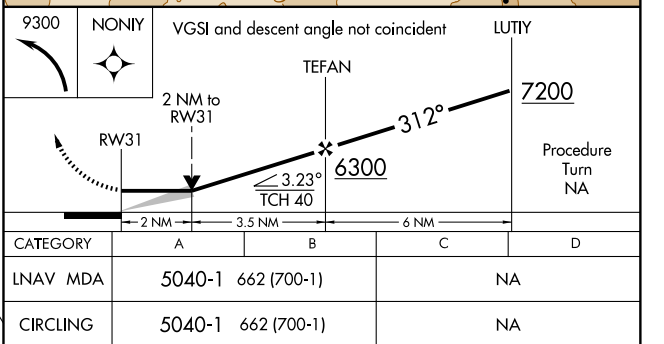
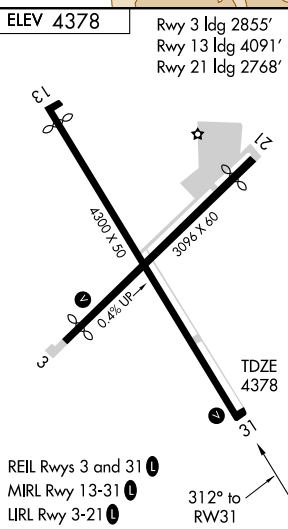
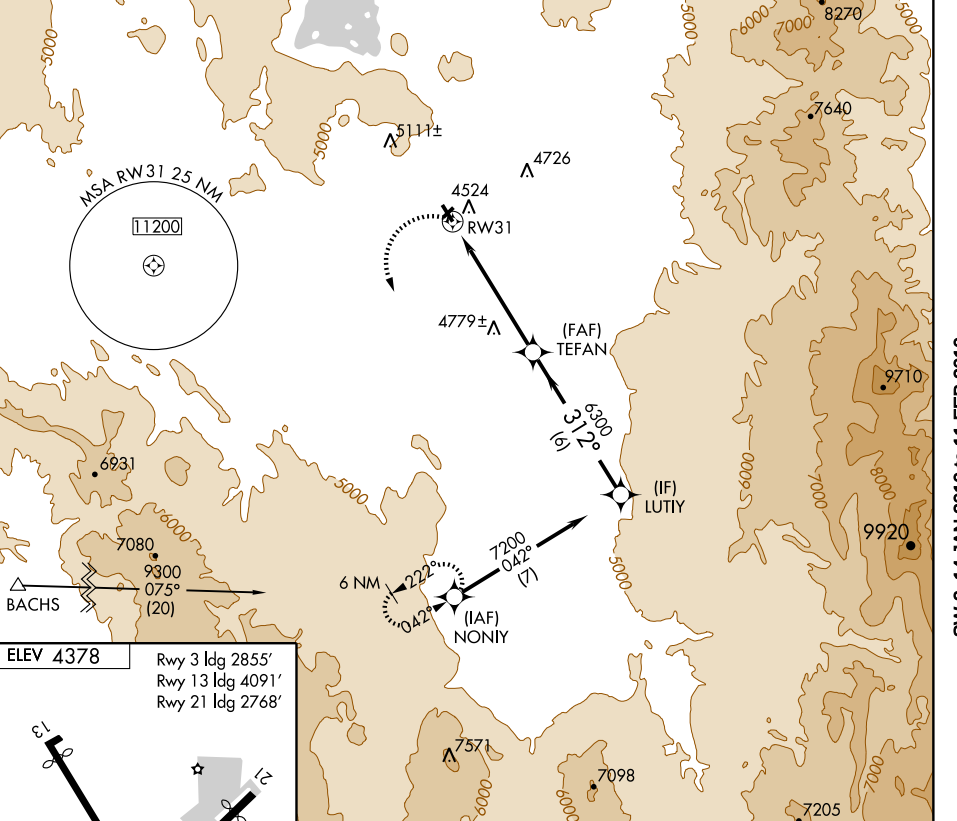
...climb in holding, (if required) before proceeding on course.

▼

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 9300 direct NONIY and hold, continue climb-in-hold to 9300.

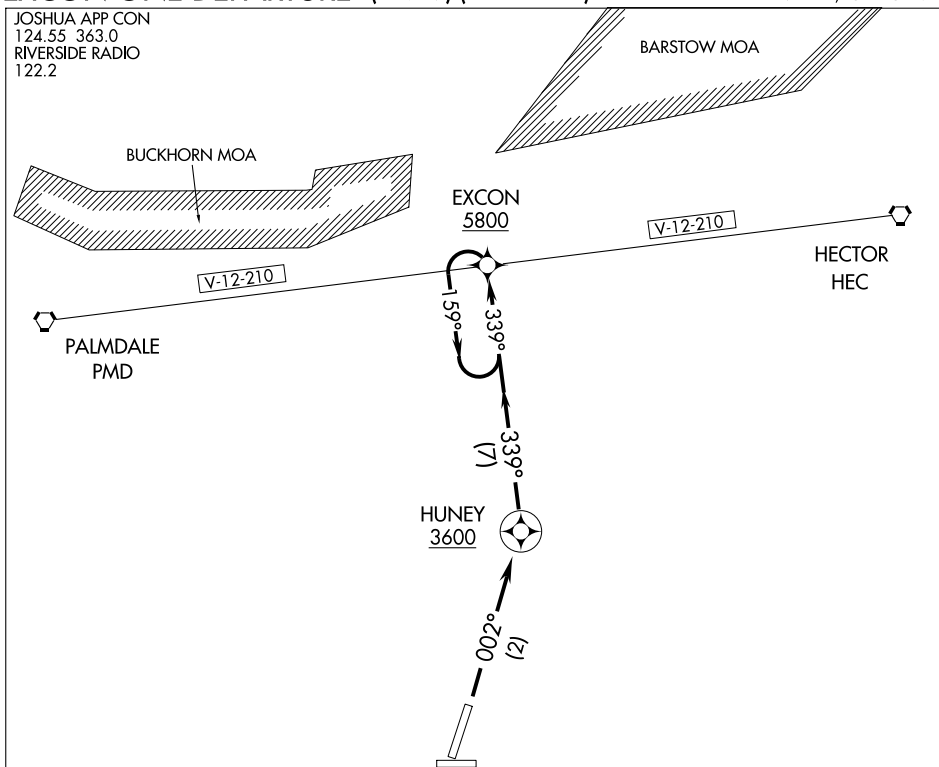
ASOS 124.175	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF) 0
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SW-2, 14 JAN 2010 to 11 FEB 2010

EXCON ONE DEPARTURE (RNAV) (OBSTACLE)

JOSHUA APP CON
124.55 363.0
RIVERSIDE RADIO
122.2



TAKE-OFF MINIMUMS: 300-1 or standard with a minimum climb gradient of 340' per NM until 5800'.

NOTE: Chart not to scale.

NOTE: 1. GPS required
2. RNAV 1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb via 002° course to HUNEY WP, then 339° course to EXCON WP, then climb in EXCON WP holding pattern (hold S left turns 339° inbound) to 7500' MSL then proceed on course.

▼

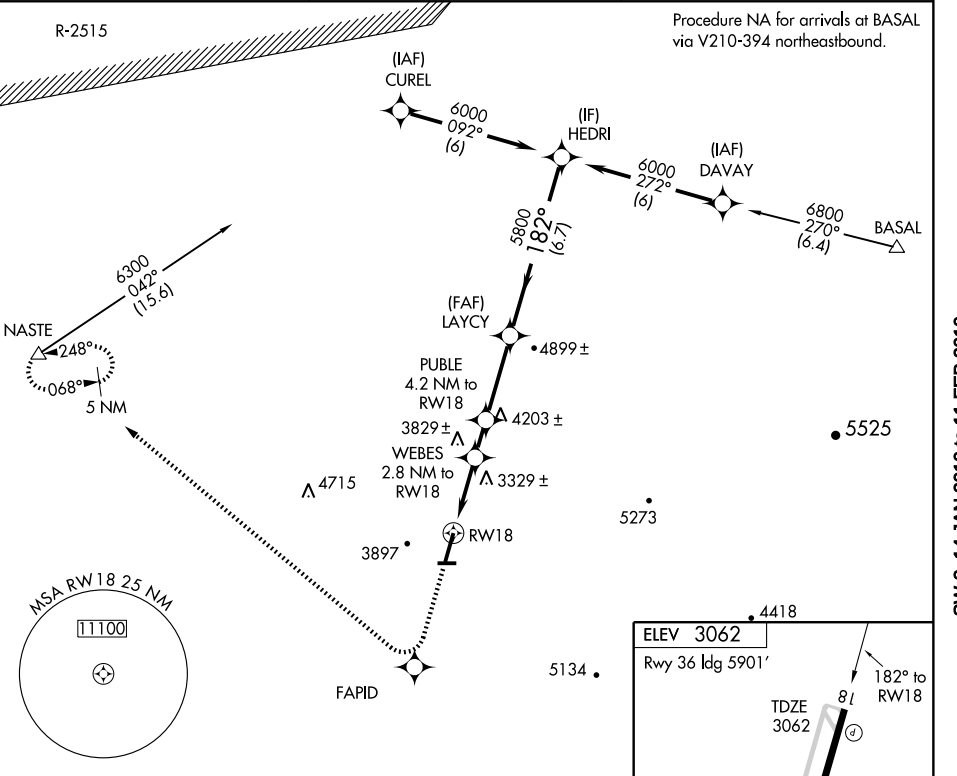
NA

Circling to Rwy 8 and 26 NA at night.
DME/DME RNP-0.3 NA.

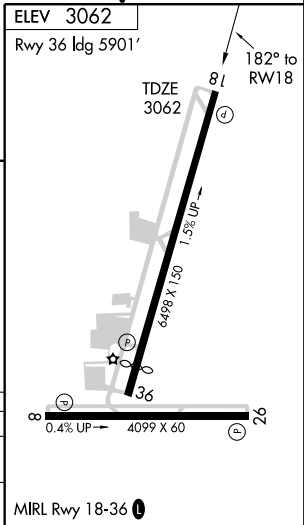
Visibility reduction by helicopters NA.
Use Southern California Logistics altimeter setting; if not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct FAPID and right turn via 296° track to NASTE and hold.

SOUTHERN CALIFORNIA LOGISTICS AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	UNICOM 122.8 (CTAF) 0
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6000	FAPID	NASTE	VGSI and descent angles not coincident.	
↑	✧	△	296° track	
RWY 18		WEBS 2.8 NM to RWY 18	PUBLE 4.2 NM to RWY 18	LAYCY
4140		4660	5800	6000
2.8 NM		1.4 NM	3.1 NM	6.7 NM
CATEGORY	A	B	C	D
RNAV MDA	3700-1	638 (700-1)	3700-1 ³ / ₄ 638 (700-1 ³ / ₄)	3700-2 638 (700-2)
CIRCLING	4000-1 938 (1000-1)	4300-1 1238 (1300-1)	4320-3 1258 (1300-3)	4660-3 1598 (1600-3)

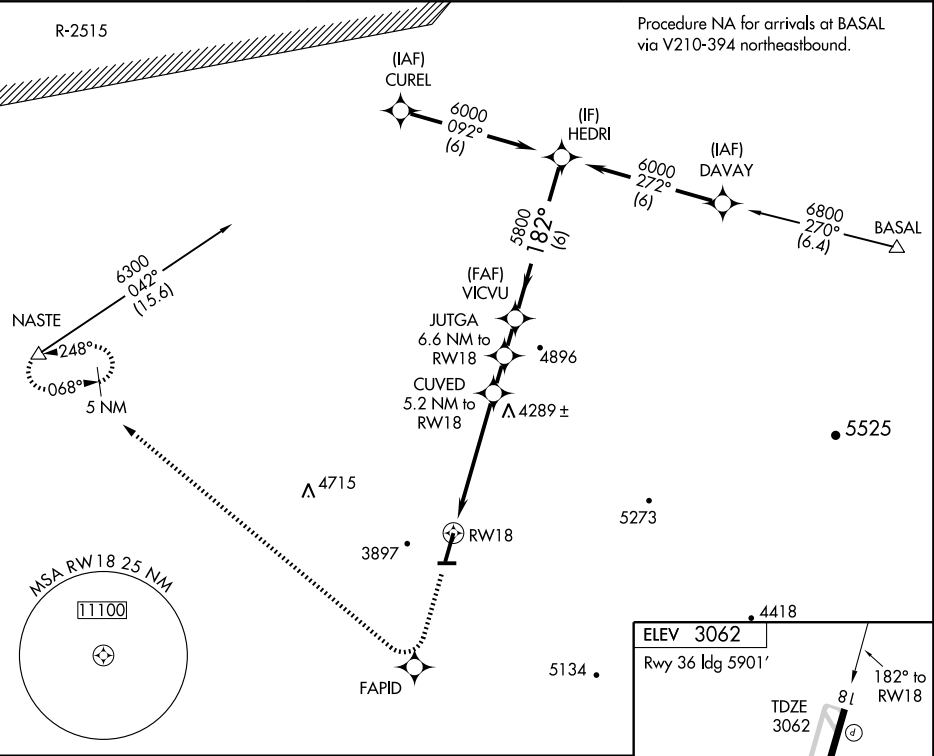


SW-3, 14 JAN 2010 to 11 FEB 2010

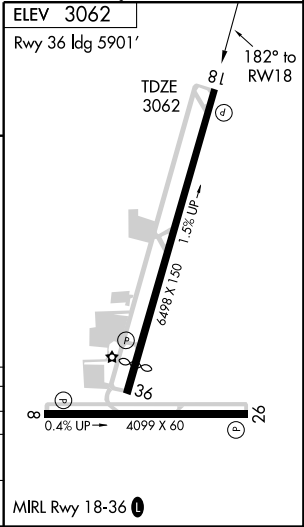
WAAS Ch 63102 W18A	APP CRS 182°	Rwy Idg TDZE Apt Elev 6498 3062 3062
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RNAV (GPS) Z RWY 18
APPLE VALLEY (APV)

▼ ▲ NA W Circling to Rwy 8 and 26 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Southern California Logistics altimeter setting; if not received, procedure NA.	MISSED APPROACH: Climb to 6000 direct FAPID and right turn via 296° track to NASTE and hold.	
SOUTHERN CALIFORNIA LOGISTICS AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	UNICOM 122.8 (CTAF) 0



6000	FAPID	NASTE	VGSI and RNAV glidepath not coincident	HEDRI
GS 3.10° TCH 50 RWY 18	* LNAV only	CUVED 5.2 NM to RWY 18	JUTGA 6.6 NM to RWY 18	VICVU
		* 4840	* 5320	6000
		5.2 NM	1.4 NM	1.4 NM
				6 NM
CATEGORY	A	B	C	D
LPV DA		3439-1¼	377 (400-1¼)	
LNAV MDA	4600-1¼ 1538 (1600-1¼)	4600-1½ 1538 (1600-1½)	4600-3 1538 (1600-3)	
CIRCLING	4600-1¼ 1538 (1600-1¼)	4600-1½ 1538 (1600-1½)	4600-3 1538 (1600-3)	4660-3 1598 (1600-3)



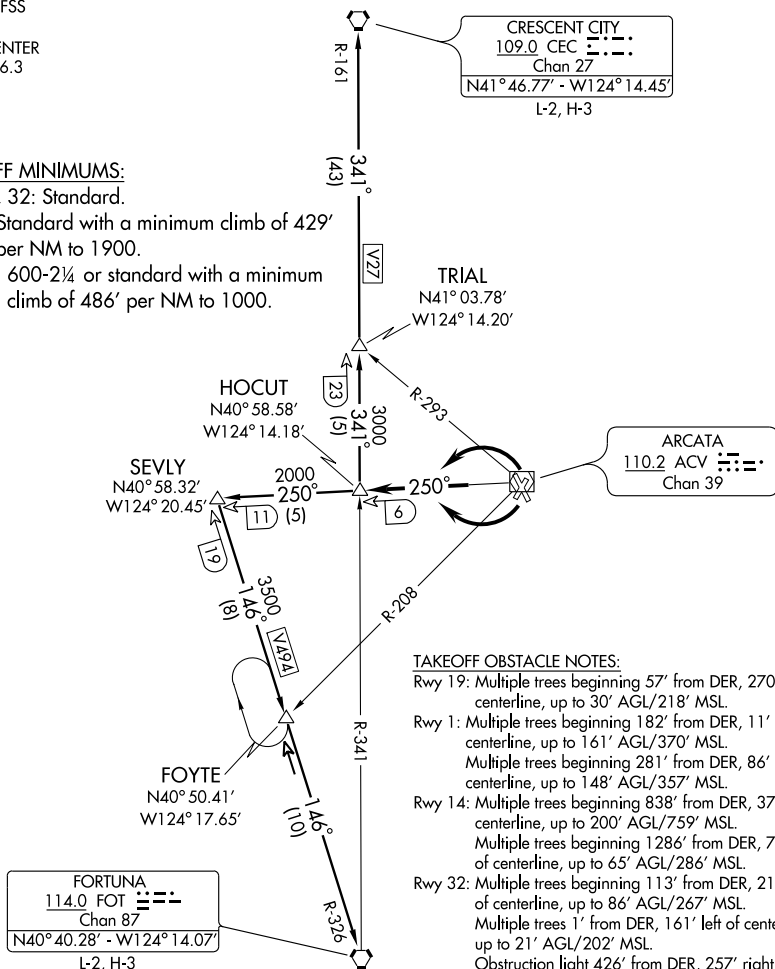
OAKLAND FSS
122.6
SEATTLE CENTER
124.85 306.3

TAKEOFF MINIMUMS:

Rwy 19, 32: Standard.

Rwy 1: Standard with a minimum climb of 429' per NM to 1900.

Rwy 14: 600-2¼ or standard with a minimum climb of 486' per NM to 1000.

**TAKEOFF OBSTACLE NOTES:**

Rwy 19: Multiple trees beginning 57' from DER, 270' right of centerline, up to 30' AGL/218' MSL.

Rwy 1: Multiple trees beginning 182' from DER, 11' right of centerline, up to 161' AGL/370' MSL.
Multiple trees beginning 281' from DER, 86' left of centerline, up to 148' AGL/357' MSL.

Rwy 14: Multiple trees beginning 838' from DER, 372' left of centerline, up to 200' AGL/759' MSL.
Multiple trees beginning 1286' from DER, 716' right of centerline, up to 65' AGL/286' MSL.

Rwy 32: Multiple trees beginning 113' from DER, 211' right of centerline, up to 86' AGL/267' MSL.
Multiple trees 1' from DER, 161' left of centerline, up to 21' AGL/202' MSL.
Obstruction light 426' from DER, 257' right of centerline, 21' AGL/202' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1 and 32: Climbing left turn, thence. . .

TAKE-OFF RUNWAYS 14 and 19: Climbing right turn, thence. . .

. . . via ACV R-250 to HOCUT INT.

CRESCENT CITY TRANSITION (HOCUT3.CEC): From over HOCUT INT via FOT R-341 and CEC R-161 to CEC VORTAC.

FORTUNA TRANSITION (HOCUT3.FOT): From over HOCUT INT via ACV R-250 to SEVLY INT, then via FOT R-326 to FOT VORTAC.

▼

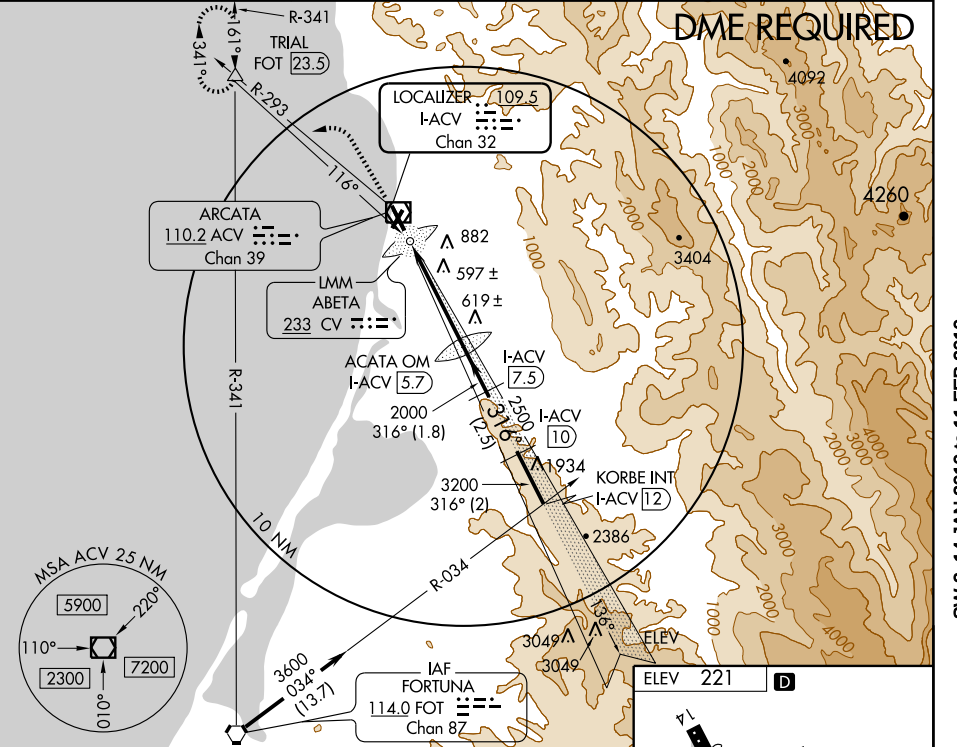
▲

Circling NA east of Rwy 14-32. When local altimeter setting not received, use Crescent City altimeter setting and increase all DA 135 feet, all MDA 140 feet. Increase S-ILS 32 visibility to RVR 4000, S-LOC 32 Cat B visibility to RVR 4000, Cat C to 1¾, and Cat D to 2. Increase visibility circling Cats B/C ¼ mile, Cat D ½ mile.

MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 3000 via heading 250° and FOT R-341 to TRIAL Int and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
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800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

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Procedure Turn NA

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ACATA OM I-ACV 5.7

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GS 3.00° TCH 48

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FOT R-341 114.0

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

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Procedure Turn NA

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

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Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

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Procedure Turn NA

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

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I-ACV 7.5

I-ACV 10

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3600

2500

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2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

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Procedure Turn NA

KORBE INT I-ACV 12

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I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

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Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

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Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

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3600

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GS 3.00° TCH 48

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3000

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Procedure Turn NA

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I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

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KORBE INT I-ACV 12

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I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

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I-ACV 7.5

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2000

GS 3.00° TCH 48

800

3000

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2500

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GS 3.00° TCH 48

800

3000

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I-ACV 7.5

I-ACV 10

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3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

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I-ACV 7.5

I-ACV 10

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3600

2500

2000

2000

GS 3.00° TCH 48

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3000

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I-ACV 7.5

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GS 3.00° TCH 48

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3000

FOT R-341 114.0

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Procedure Turn NA

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

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Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

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ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KORBE INT I-ACV 12

ACATA OM I-ACV 5.7

I-ACV 7.5

I-ACV 10

316°

3600

2500

2000

2000

GS 3.00° TCH 48

800

3000

FOT R-341 114.0

TRIAL

Use I-ACV DME when on LOC course.

Procedure Turn NA

KOR

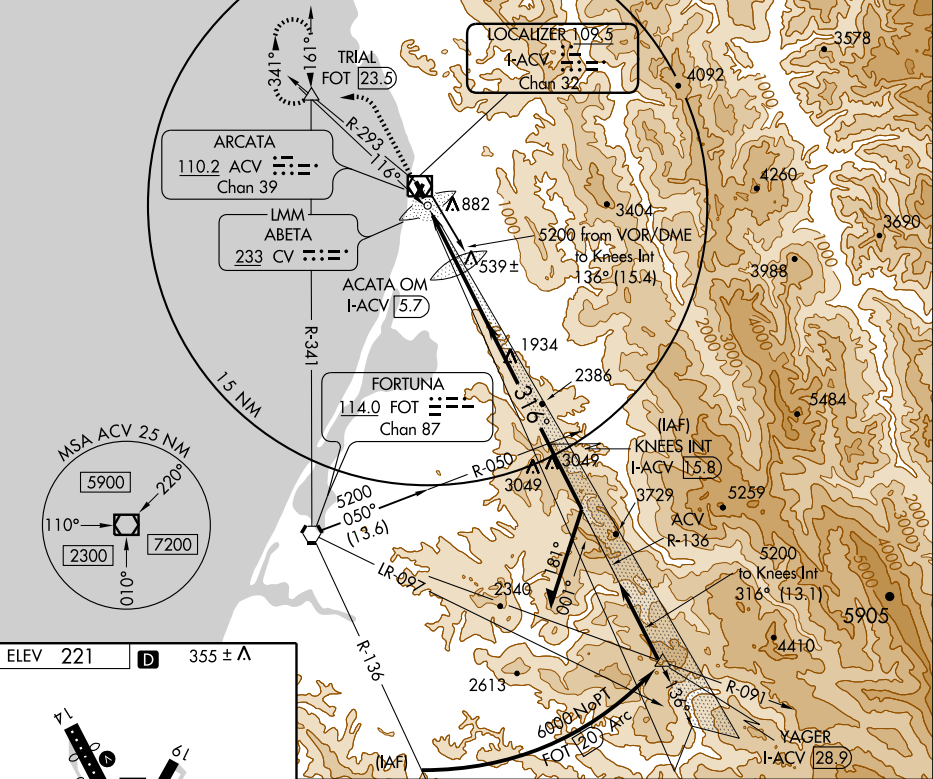
LOC/DME I-ACV	APP CRS	Rwy Idg	5198
109.5	316°	TDZE	221
Chan 32		Apt Elev	221

⚠ Circling NA east of Rwy 14-32. Circling requires descent on glide slope to MDA.
⚠ When local altimeter setting not received, use Crescent City altimeter setting and increase all DA 135 feet, all MDA 140 feet. Increase S-ILS 32 visibility to RVR 4000 and increase circling visibility Cat D to 2 1/4.

MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 3000 via heading 250° and FOT R-341 to TRIAL INT and hold.

ASOS	SEATTLE CENTER	UNICOM
118.525	124.85 306.3	123.0 (CTAF) 0



ELEV 221

D 355 ± Δ

TDZ/CL Rwy 32
MRL Rwy 1-19
HIRL Rwy 14-32
REIL Rwy 14 and 32 4.6 NM from FAF
REIL Rwy 1

FAF to MAP 4.6 NM

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

800

3000

FOT R-341 114.0

TRIAL Δ

KNEES INT I-ACV 15.8

Remain within 10 NM

Use I-ACV DME when on LOC course

ACATA OM I-ACV 5.7

5158

136°

5200

316°

5200

GS 3.00° TCH 48

CATEGORY	A	B	C	D
S-ILS 32	421/18 200 (200-3/4)			
S-LOC 32	NA			
CIRCLING	620-1 399 (400-1)	680-1 459 (500-1)	680-1 1/2 459 (500-1 1/2)	780-2 559 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

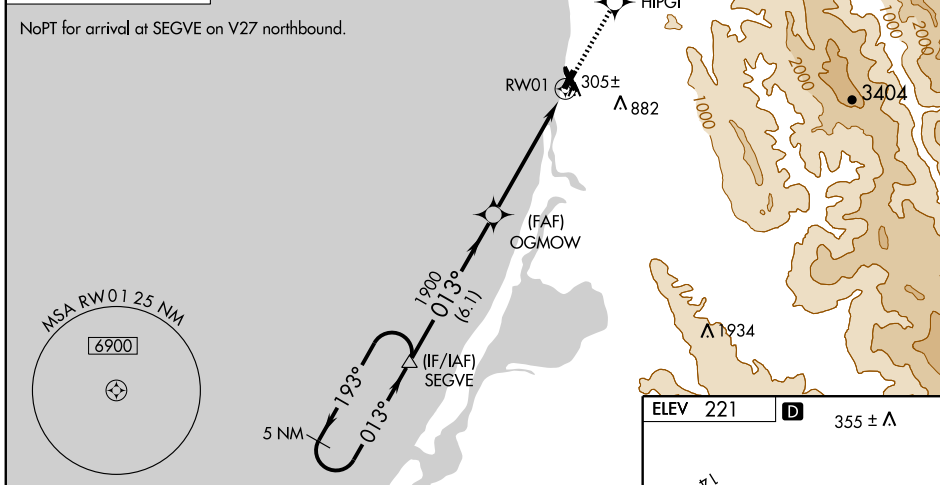
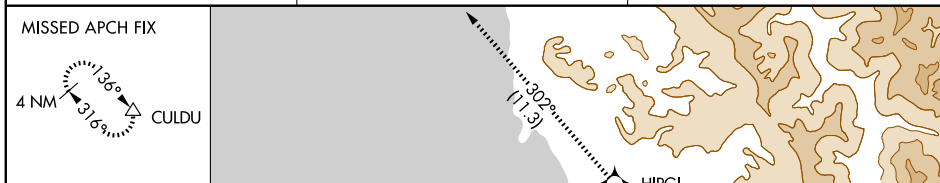
RNAV (GPS) RWY 1 ARCATA (ACV)

WAAS CH 63200 W01A	APP CRS 013°	Rwy Idg TDZE Apt Elev	4499 204 221
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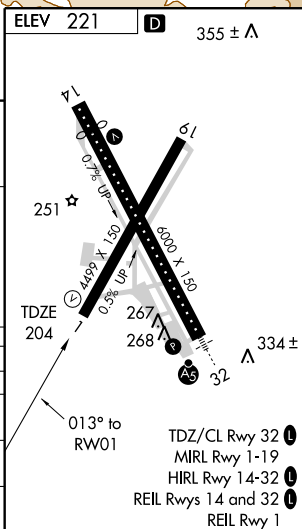
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Circling NA east of Rwy 14-32.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (119°F).
 If local altimeter setting not received, use Crescent City altimeter setting and increase all DA/MDAs 140 feet.
 Baro-VNAV NA when using Crescent City altimeter setting.

MISSED APPROACH: Climb to 3000 direct HIPGI and left turn via 302° track to CULDU and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
------------------------	---------------------------------------	---------------------------------



5 NM Holding Pattern		SEGVE		3000	HIPGI	CULDU
← 193°		013°		OGMOW	302° track	Δ
GS 3.00°		TCH 40		RW01		
		6.1 NM		5.2 NM		
CATEGORY	A	B	C	D		
LPV DA	768-2		564 (600-2)			
LNAV/VNAV DA	919-2½		715 (700-2½)			
LNAV MDA	1140-1¼	936 (1000-1¼)	1140-2¾	936 (1000-2¾)	1140-3	936 (1000-3)
CIRCLING	1140-2½	919 (1000-2½)	1140-2¾	936 (1000-2¾)	1140-3	936 (1000-3)

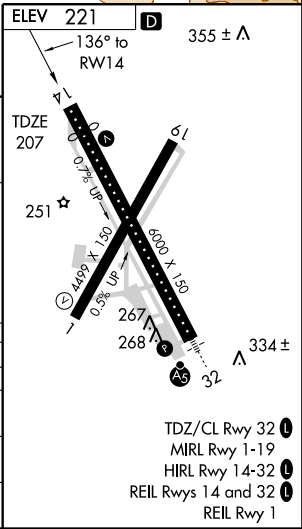
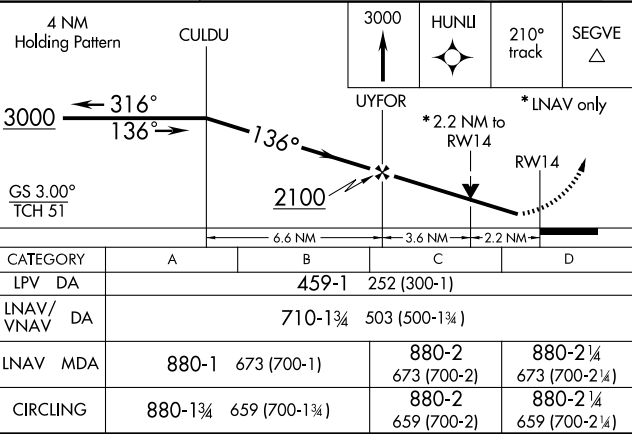
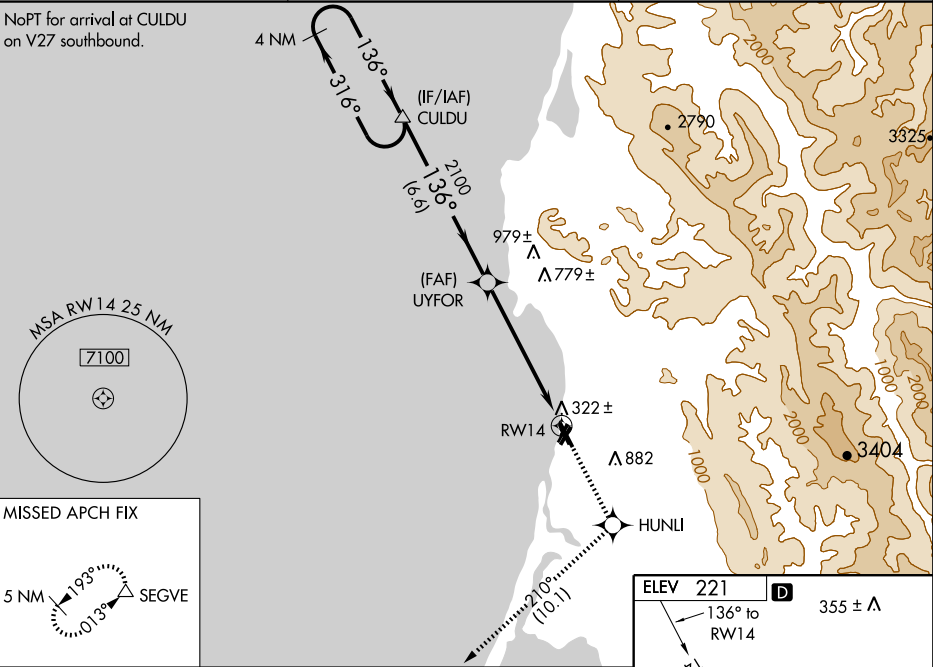


WAAS CH 62801 W14A	APP CRS 136°	Rwy Idg TDZE Apt Elev	5198 207 221
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⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Circling NA east of Rwy 14-32.
W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (119°F).
If local altimeter setting not received, use Crescent City altimeter setting and increase all DA/MDAs 140 feet.
VDP and Baro-VNAV NA when using Crescent City altimeter setting.

MISSED APPROACH: Climb to 3000 direct HUNLI and via 210° track to SEGVE and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
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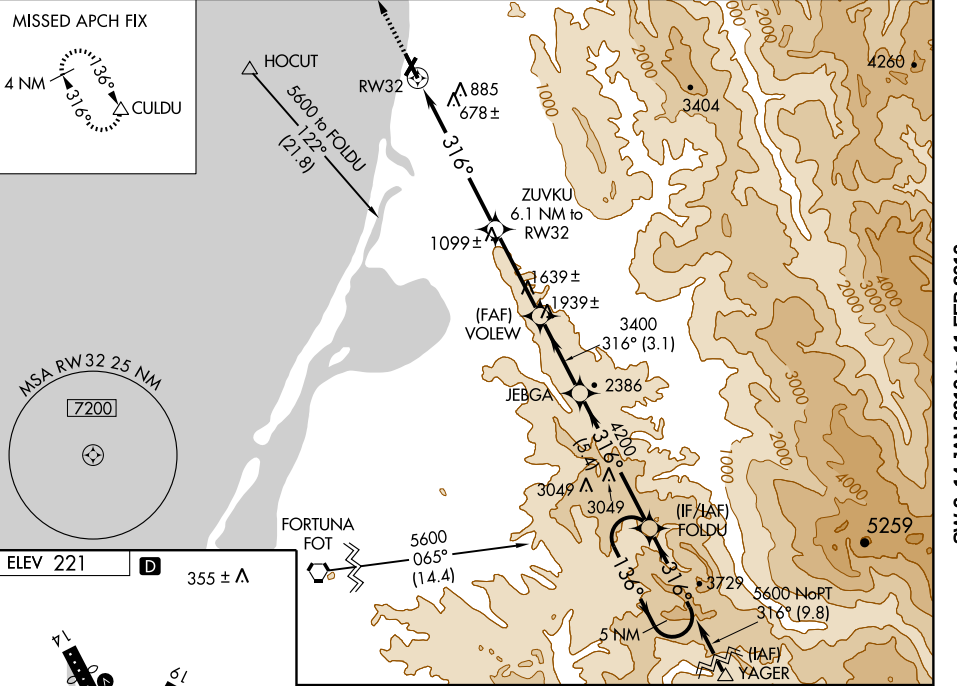
WAAS CH 63108 W32A	APP CRS 316°	Rwy Idg TDZE Apt Elev	5198 221 221
--	------------------------	-----------------------------	---

T Circling NA east of Rwy 14-32.
A Baro-VNAV NA when using Crescent City altimeter setting.
W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Inoperative table does not apply to LPV, LNAV/VNAV, and LNAV Cats A and B.
When local altimeter setting not received, use Crescent City altimeter setting and increase all DA/MDA 140 feet, increase visibilities LPV ½ mile all Cats, LNAV Cats A, B ¼ mile, Cats C, D 1 mile, inoperative table does not apply.

MALSR

MISSED APPROACH: Climb to 3000 direct CULDU and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF)
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ELEV 221

D

355 ± Δ

TDZ/CL Rwy 32

MIRL Rwy 1-19

HIRL Rwy 14-32

REIL Rwy 14 and 32

REIL Rwy 1

316° to RW32

334 ±

267

268

TDZE 221

4499 X 150

0.7% UP

0.5% UP

6000 X 150

251

316°

32

AS

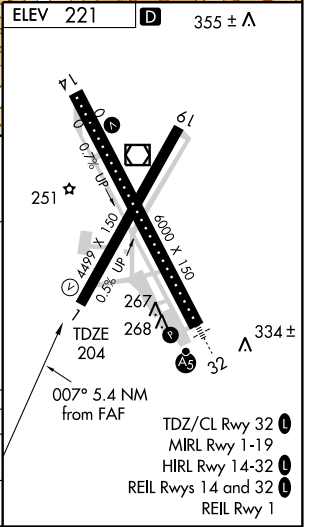
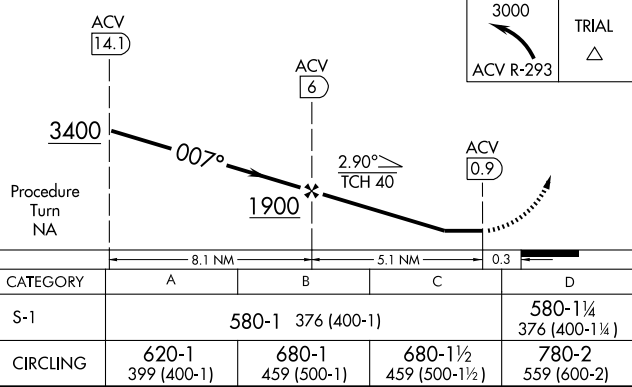
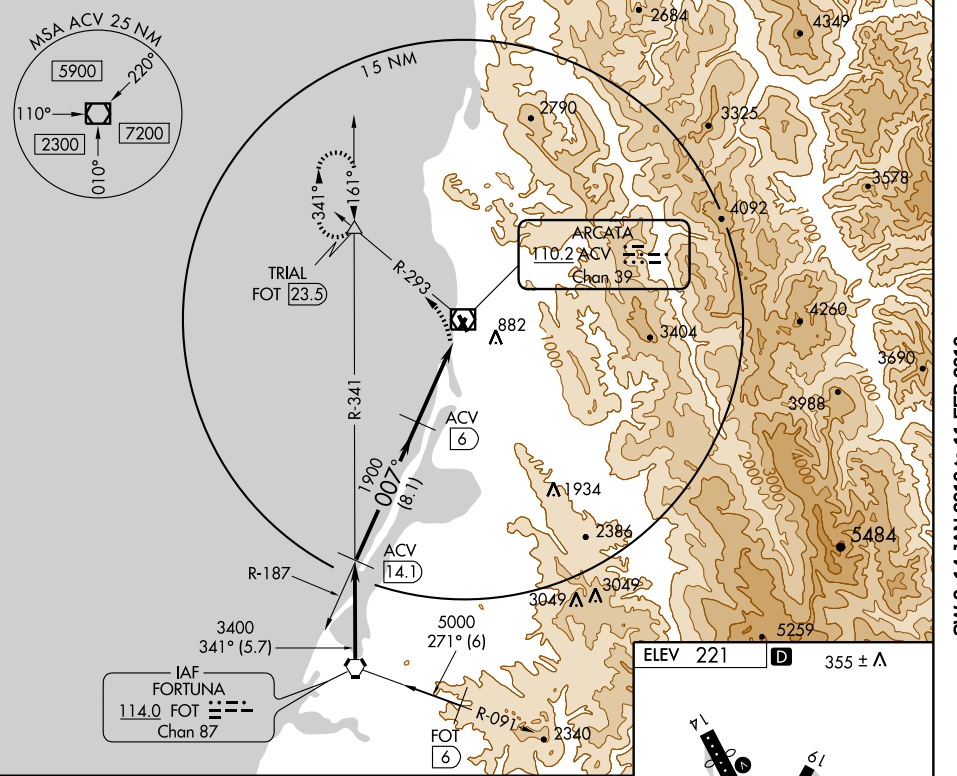
3000	CULDU	* LNAV only	JEBGA	FOLDU	5 NM Holding Pattern
		ZUVKU 6.1 NM to RW32	VOLEW		
		2220*	3400	4200	5600
		6.1 NM	3.5 NM	3.1 NM	5.4 NM
					GS 3.00° TCH 47
CATEGORY	A	B	C	D	
LPV DA	509/50 288 (300-1)				
LNAV/VNAV DA	1164-4 943 (1000-4)				
LNAV MDA	940/50	719 (800-1)	940-1½ 719 (800-1½)	940-1¾ 719 (800-1¾)	
CIRCLING	940-1	719 (800-1)	940-2 719 (800-2)	940-2¼ 719 (800-2¼)	

VOR/DME ACV	APP CRS	Rwy Idg	4499
110.2	007°	TDZE	204
Chan 39		Apt Elev	221

Circling not authorized east of Rwy 14-32.

MISSED APPROACH: Climbing left turn to 3000 via ACV R-293 to TRIAL Int/DME and hold.

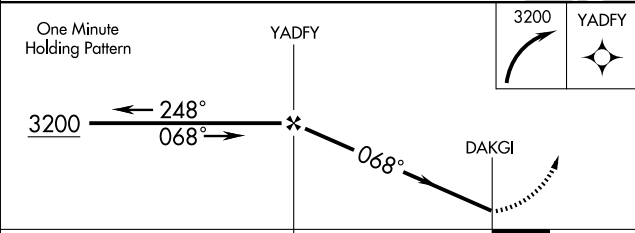
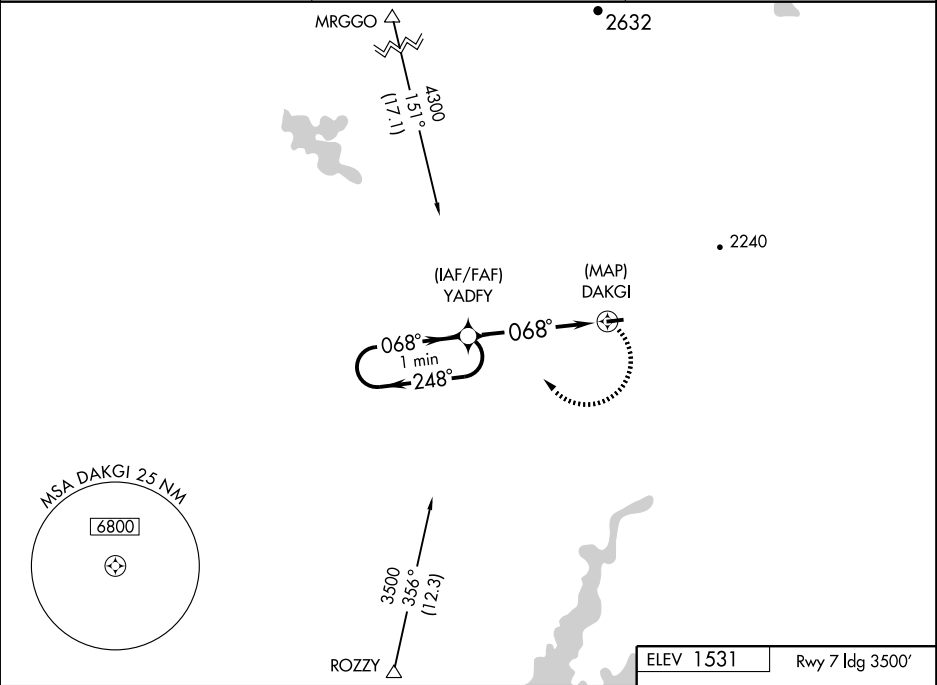
ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
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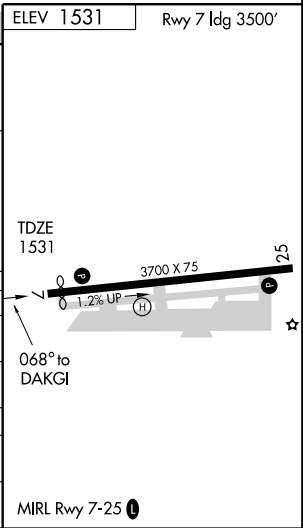
APP CRS	Rwy Idg	3500
068°	TDZE	1531
	Apt Elev	1531

NA	Obtain local altimeter setting on CTAF; when not received use Lincoln, CA (Lincoln Regional) altimeter setting, when neither received procedure not authorized.	MISSED APPROACH: Climbing right turn to 3200 direct YADFY WP and hold.
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AWOS-3 119.375	NORCAL APP CON 125.4 317.5	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
S-7	1980-1	449 (500-1)		NA
CIRCLING	2200-1 669 (700-1)	2260-1 729 (800-1)		NA
LINCOLN, CA (LINCOLN REGIONAL) ALTIMETER SETTING MINIMUMS				
S-7	2200-1	669 (700-1)		NA
CIRCLING	2440-1¼ 909 (1000-1¼)	2480-1¼ 949 (1000-1¼)		NA

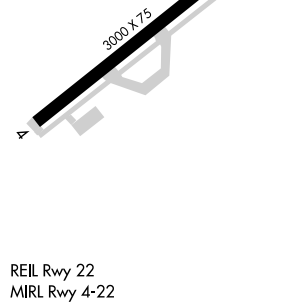
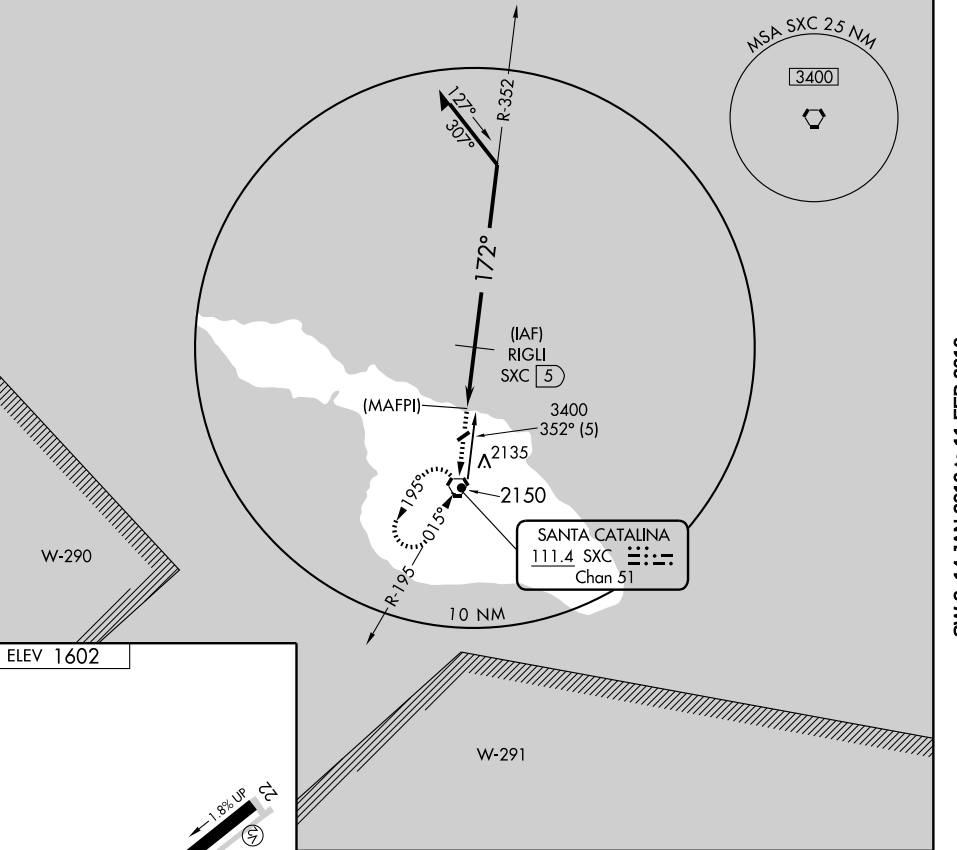


NA

Circling southeast runway 4-22 not authorized.

MISSED APPROACH: Climb to 3400 direct SXC VORTAC and hold.

ASOS 120.675	SOCAL APP CON 127.4 323.275	UNICOM 122.7 (CTAF)
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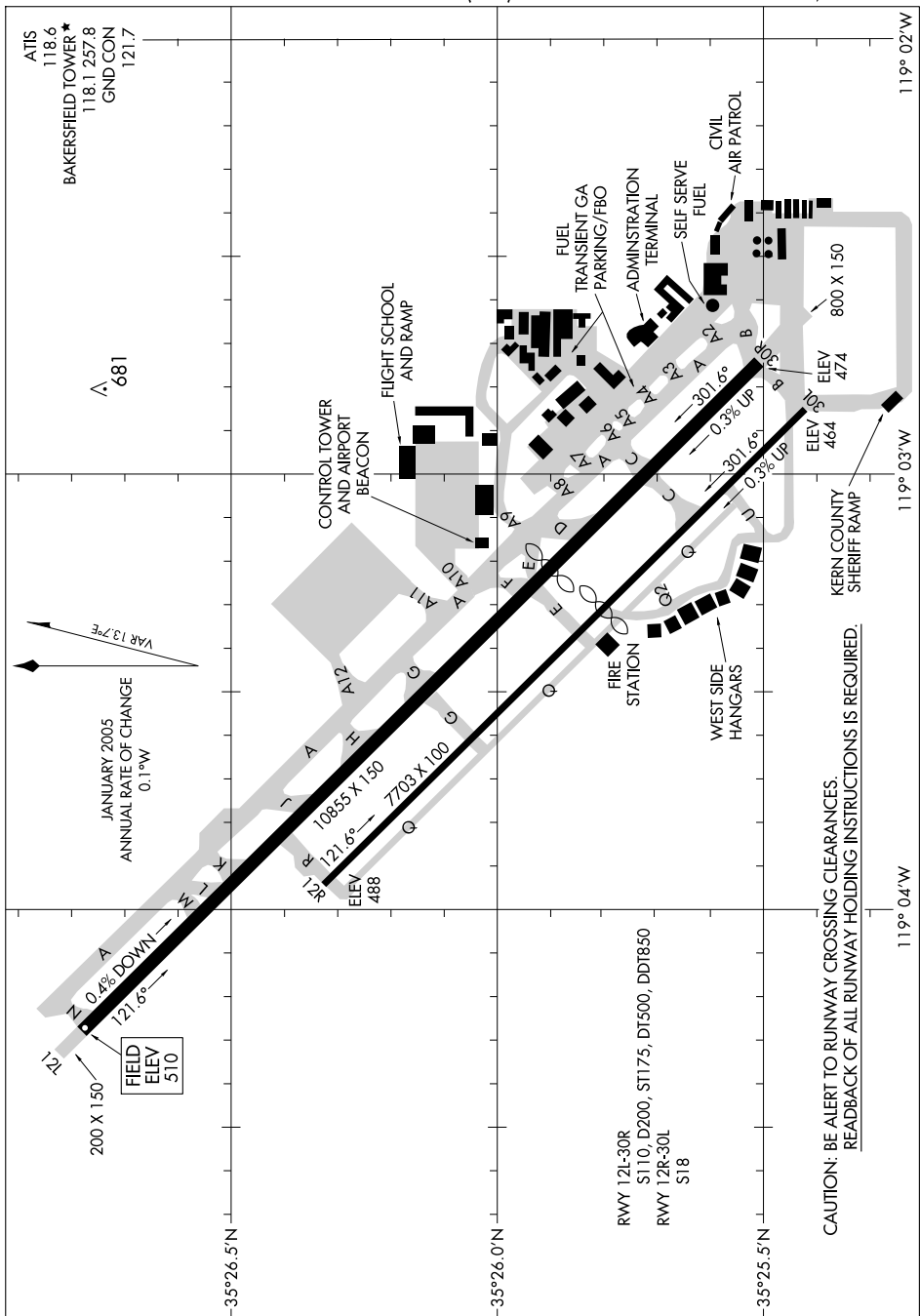


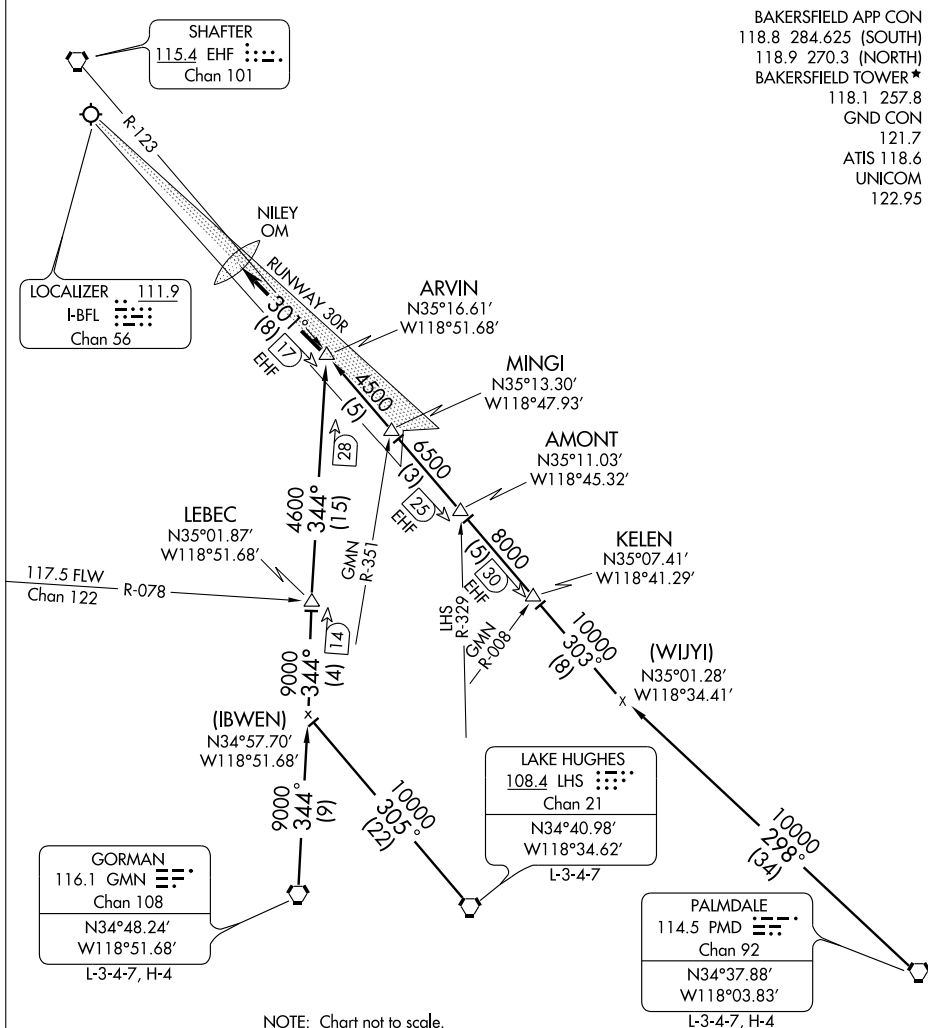
3400	SXC 111.4	RIGLI SXC 5	352°	3400	Remain within 10 NM
(MAFPI) SXC 2.8	172°	2300			
1 NM	2.2 NM				
CATEGORY	A	B	C	D	
CIRCLING	2220-1	618 (700-1)			NA

AIRPORT DIAGRAM

AL-36 (FAA)

BAKERSFIELD/MEADOWS FIELD (BFL)
BAKERSFIELD, CALIFORNIA





GORMAN TRANSITION (GMN.ARVIN1): From over GMN VORTAC via GMN R-344 to ARVIN INT. Thence....

LAKE HUGHES TRANSITION (LHS.ARVIN1): From over LHS VORTAC via LHS R-305 and GMN R-344 to ARVIN INT. Thence....

PALMDALE TRANSITION (PMD.ARVIN1): From over PMD VORTAC via PMD R-298 and EHF R-123 to ARVIN INT. Thence....

....From over ARVIN INT via the I-BFL ILS 30R localizer to NILEY OM.

LOST COMMUNICATIONS: From over ARVIN INT via I-BFL ILS 30R to NILEY OM.

LOC/DME I-BFL	APP CRS	Rwy Idg	7429
111.9	301°	TDZE	490
Chan 56		Apt Elev	507

✈

✈

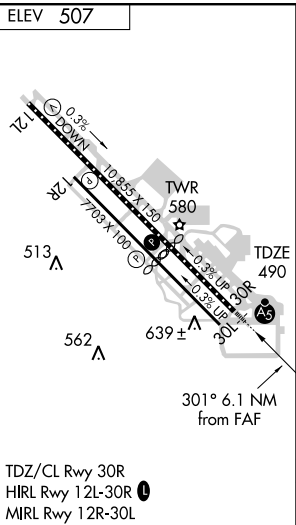
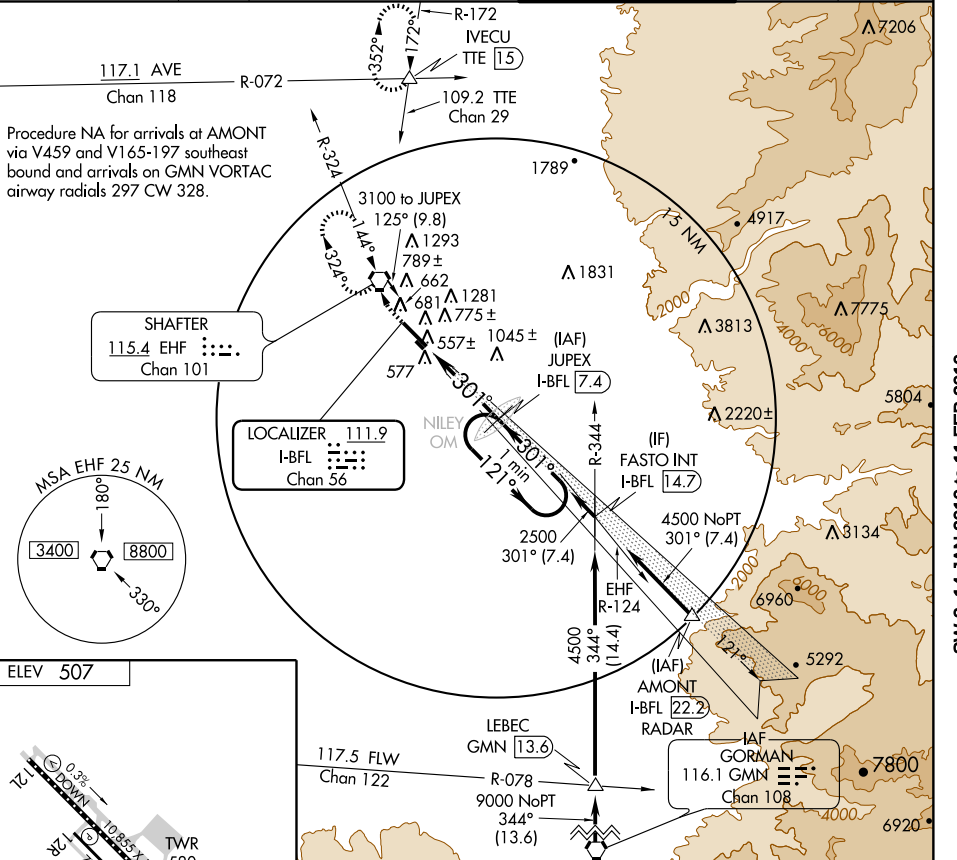
Circling NA northeast of Rwy 12L-30R. If local altimeter setting not received, use Porterville altimeter setting and increase DA/MDAs 100 feet. VDP NA when using Porterville altimeter setting.

MALSR

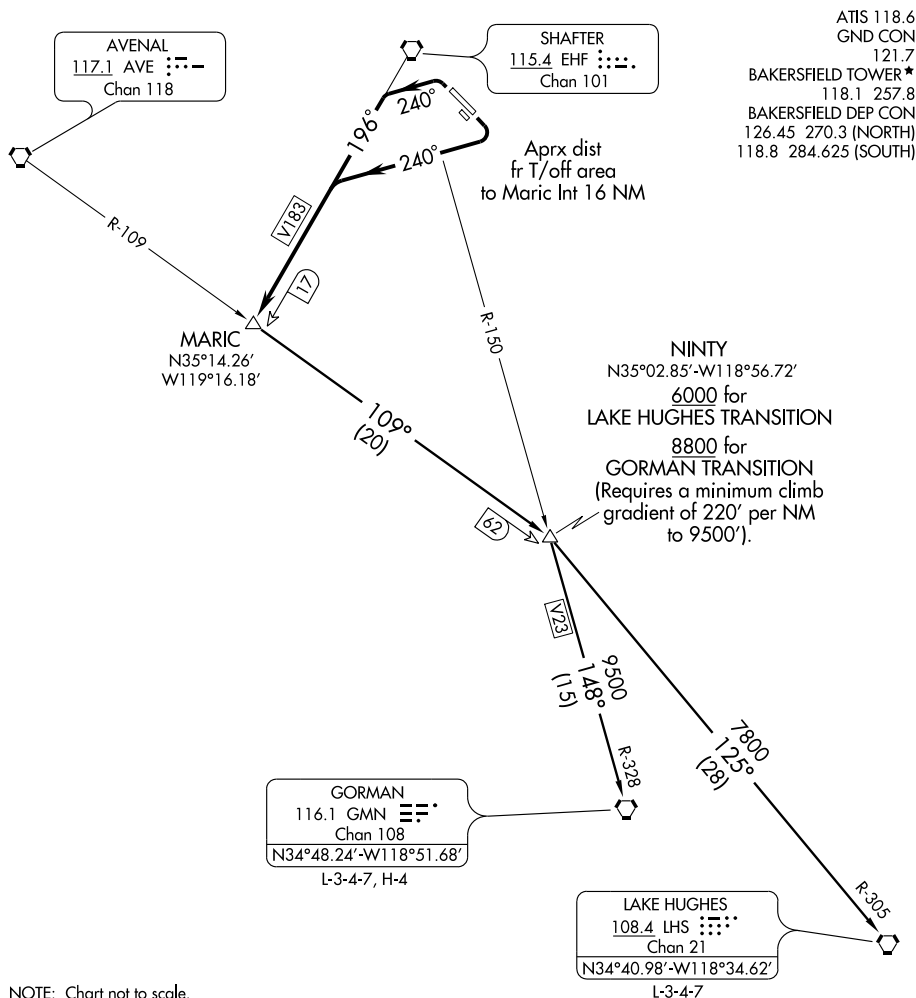
AS

MISSED APPROACH: Climb to 3000 to intercept EHF R-145 to EHF VORTAC and hold, continue climb-in-hold to 3000.

PORTERVILLE AWOS-3	ATIS	BAKERSFIELD APP CON	BAKERSFIELD TOWER*	GND CON	UNICOM
134.625	118.6	118.8 284.625 118.9 270.3 (SOUTH) (NORTH)	118.1(CTAF) 257.8	121.7	122.95



3000	EHF R-145	EHF 115.4	Use I-BFL DME when on localizer course.	JUPEX I-BFL 7.4	One Minute Holding Pattern
				2500	121° → 2500
	I-BFL 1.3	I-BFL 2.4		2500	← 301° 2500
					GS 3.00° TCH 51
					VGSI and ILS glidepath not coincident.
CATEGORY	A	B	C	D	
S-ILS 30R		690/18	200 (200-1/2)		
S-LOC 30R		900/24	410 (400-1/2)	900/40	410 (400-3/4)
CIRCLING		920-1	960-1	960-1/2	1060-2
		413 (500-1)	453 (500-1)	453 (500-1/2)	553 (600-2)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12L/R: Turn right heading 240°. Thence....

TAKE-OFF RUNWAYS 30L/R: Turn left heading 240°. Thence....

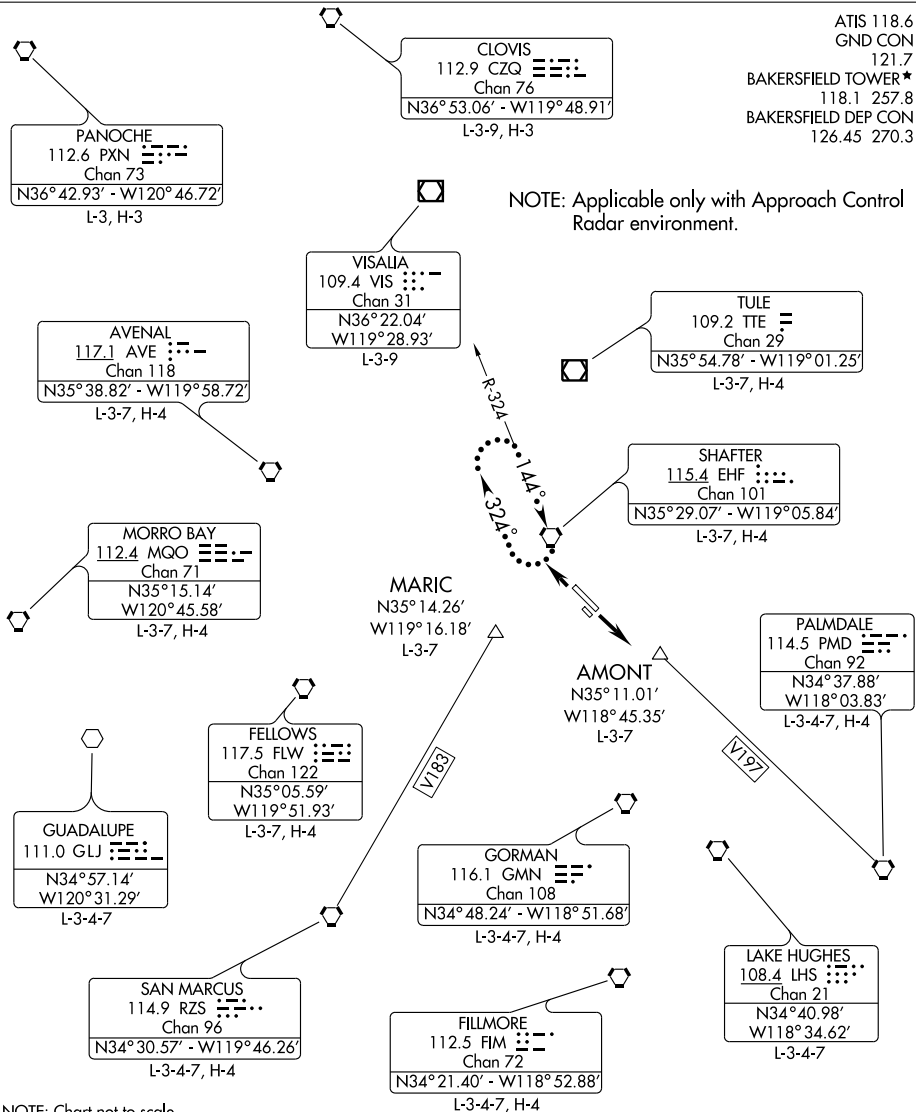
....intercept and proceed via the EHF R-196 to MARIC INT. Thence via (transition) or (assigned route).

GORMAN TRANSITION (MARIC3.GMN): From over MARIC INT via AVE R-109 and GMN R-328 to GMN VORTAC.

LAKE HUGHES TRANSITION (MARIC3.LHS): From over MARIC INT via AVE R-109 and LHS R-305 to LHS VORTAC.

(MEADO) 08213 MEADOWS ONE DEPARTURE

SL-36 (FAA) BAKERSFIELD/MEADOWS FIELD (BFL)
BAKERSFIELD, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Fly runway heading for vector to assigned route/fix. Expect clearance to requested altitude five minutes after departure.

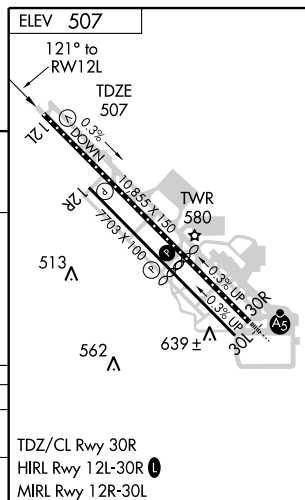
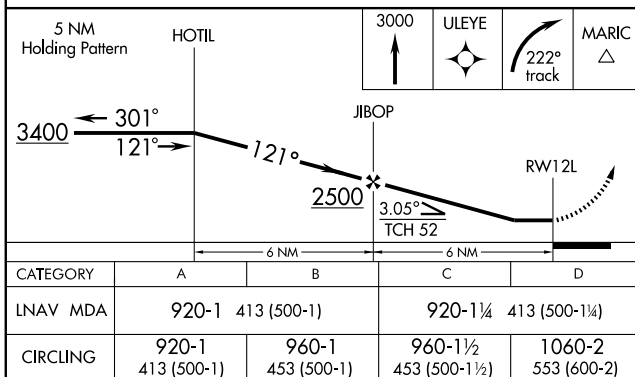
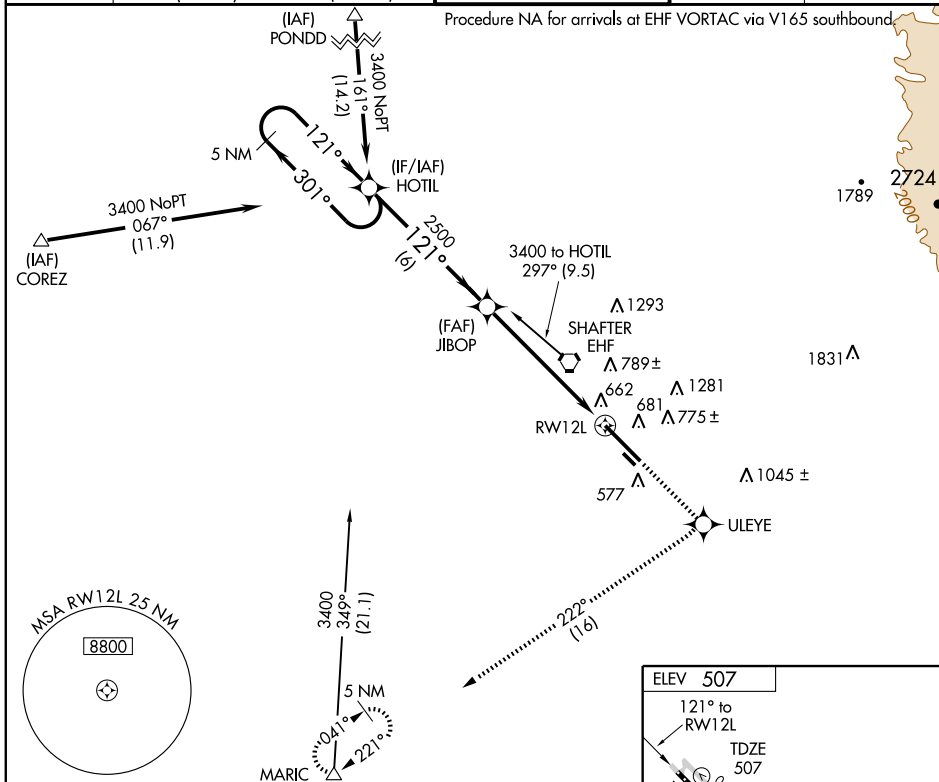
LOST COMMUNICATIONS: If no radio contact for two minutes, proceed direct EHF VORTAC and hold. Climb in holding pattern to expected altitude prior to proceeding on course.

RNAV (GPS) RWY 12L
BAKERSFIELD/MEADOWS FIELD (BFL)

MISSED APPROACH: Climb to 3000 direct ULEYE and right turn via 222° track to MARIC and hold.

ATIS 118.6	BAKERSFIELD APP CON★ 118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	BAKERSFIELD TOWER★ 118.1 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Procedure NA for arrivals at EHF VORTAC via V165 southbound



APP CRS 301°	Rwy Idg TDZE Apt Elev	7429 490 507
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RNAV (GPS) RWY 30R

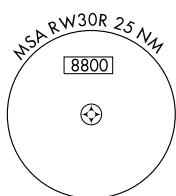
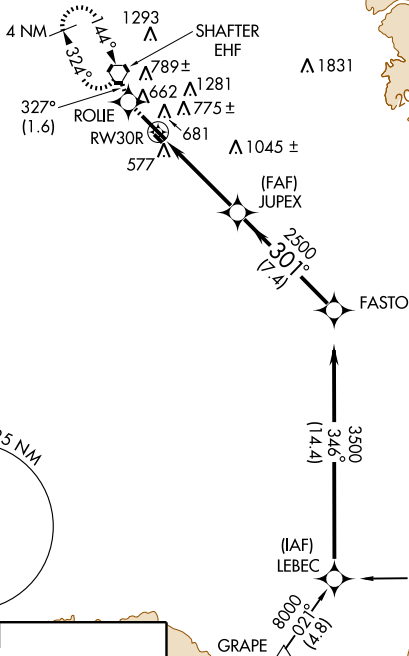
T GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
A NA Circling not authorized northeast of Rwy 12L-30R.
Baro/VNAV NA below -16°C (3°F)

MALSR

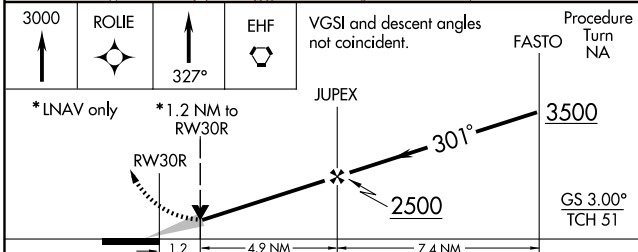
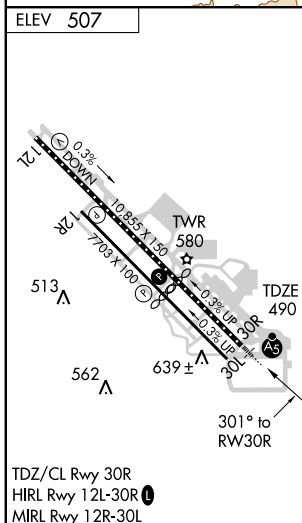
MISSED APPROACH: Climb to 3000 direct ROLIE WP and via 327° track to EHF VORTAC and hold.

ATIS 118.6	BAKERSFIELD APP CON 118.8 284.625 118.9 270.3 (SOUTH) (NORTH)	BAKERSFIELD TOWER ★ 118.1 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Procedure NA for arrivals at GRAPE via V23 southbound.



ELEV	507
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CATEGORY	A	B	C	D
GLS PA DA	NA			
INAV/ VNAV DA	940/50 450 (500-1)			
INAV MDA	940/24 450 (500-½)	940/40 450 (500-¾)	940/50 450 (500-1)	
CIRCLING	940-1½ 433 (500-1½)	960-1½ 453 (500-1½)	1060-2 553 (600-2)	

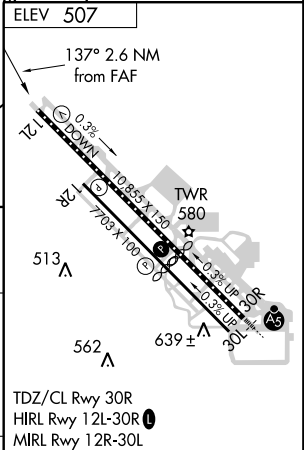
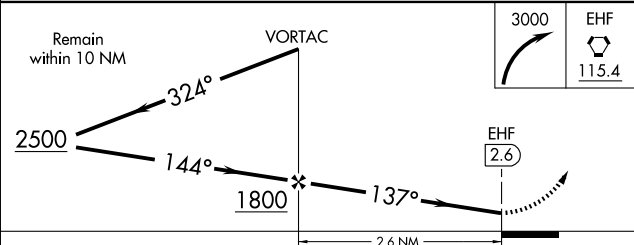
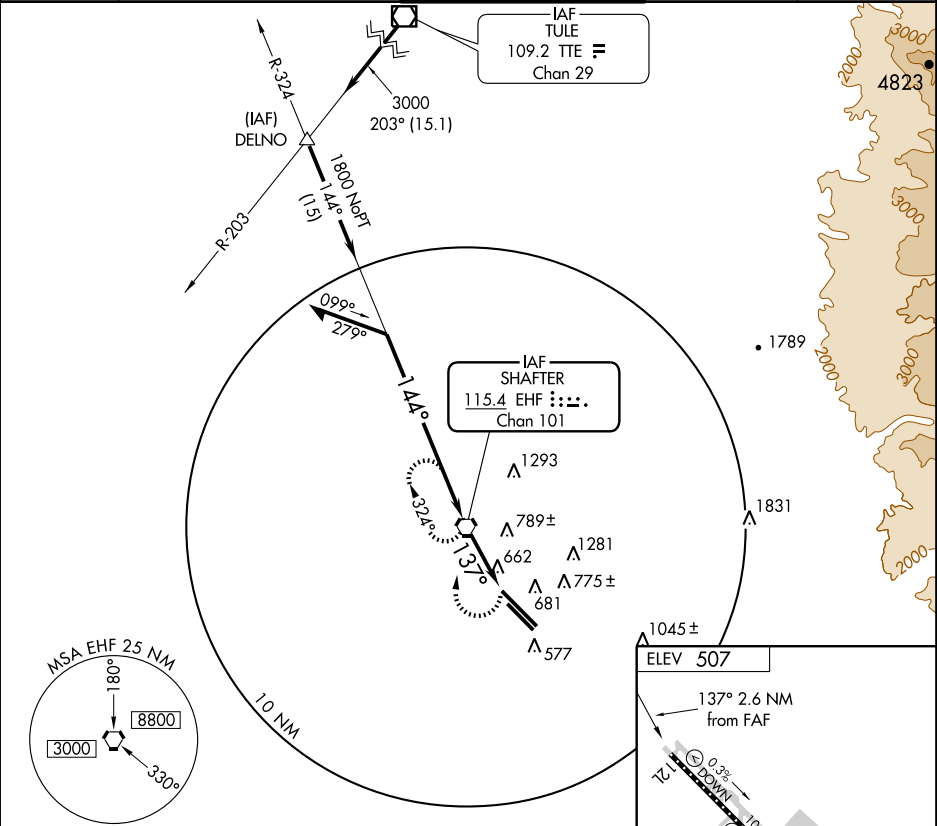
VORTAC EHF 115.4 Chan 101	APP CRS 137°	Rwy Idg TDZE Apt Elev N/A N/A 507
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VOR-A

BAKERSFIELD/MEADOWS FIELD (BFL)

⚠ Circling not authorized northeast of Rwy 12L-30R.	MISSED APPROACH: Climbing right turn to 3000 direct EHF VORTAC and hold.
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ATIS 118.6	BAKERSFIELD APP CON 118.8 284.625 118.9 270.3 (SOUTH) (NORTH)	BAKERSFIELD TOWER ★ 118.1 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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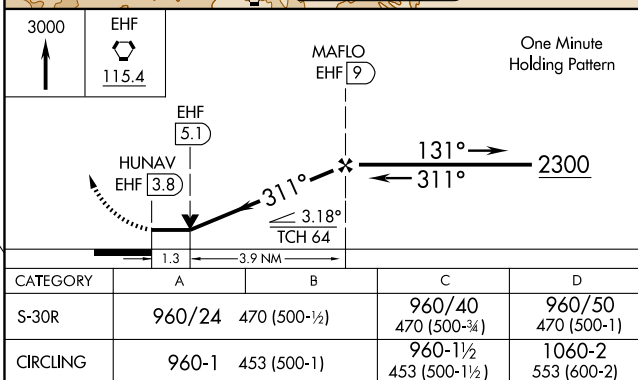
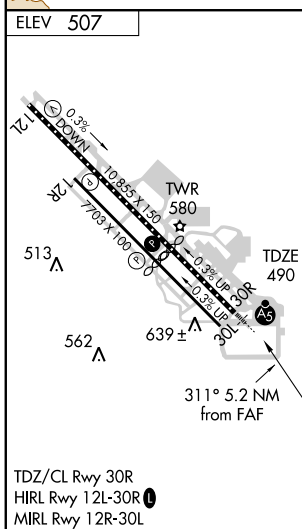
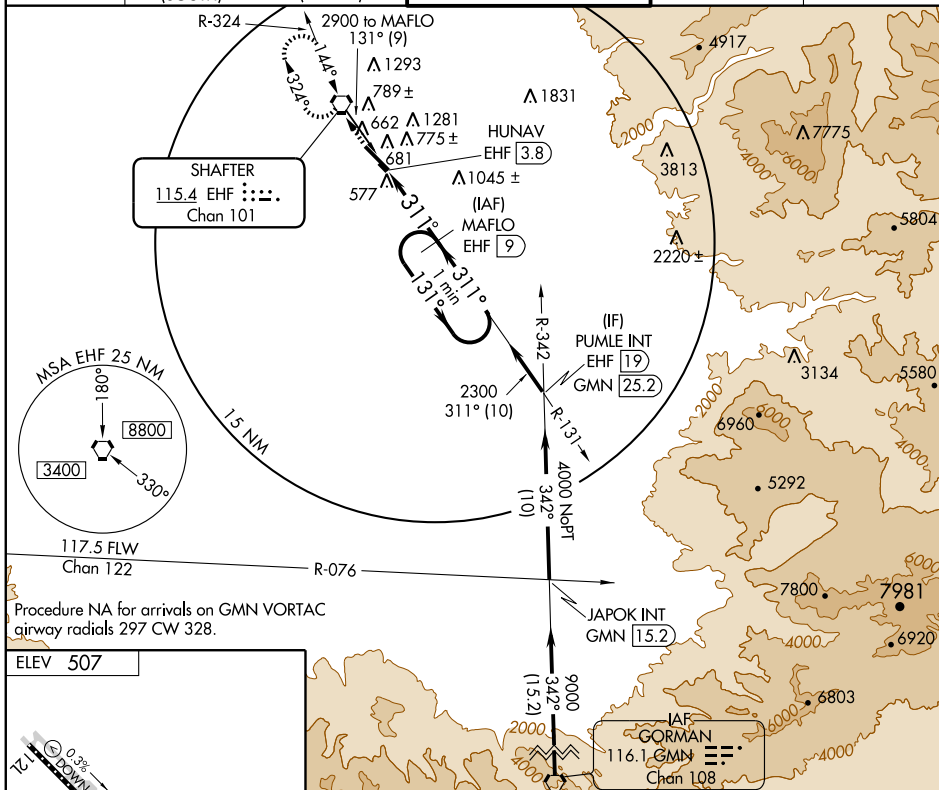
CATEGORY	A	B	C	D	FAF to MAP 2.6 NM					
CIRCLING	1000-1	493 (500-1)	1000-1½ 493 (500-1½)	1060-2 553 (600-2)	Knots	60	90	120	150	180
					Min:Sec	2:36	1:44	1:18	1:02	0:52

VOR/DME RWY 30R
BAKERSFIELD/MEADOWS FIELD (BFL)

- MALSR

MISSED APPROACH: Climb to 3000 direct EHF VORTAC and hold, continue climb-in-hold to 3000.

ATIS 118.6	BAKERSFIELD APP CON 118.8 284.625 118.9 270.3 (SOUTH) (NORTH)	BAKERSFIELD TOWER ★ 118.1(CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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ATIS 118.6
GND CON
121.7
BAKERSFIELD TOWER *
118.1 257.8
BAKERSFIELD DEP CON
126.45 270.3 (NORTH)
118.8 284.625 (SOUTH)

TULE
109.2 TTE =
Chan 29

SHAFTER
115.4 EHF ::::.
Chan 101
N35°29.07'-W119°05.84'

R 1A7

067°
(11)

WRING
N35°30.79'
W118°52.50'
5400
L-3-7

Aprx dist fr T/off area
to EHF VORTAC 4 NM

NOTE: This SID requires a minimum climb
gradient of 345' per NM to 5400'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12L/R: As soon as practical after take-off, make climbing right turn direct EHF VORTAC. Thence....

TAKE-OFF RUNWAYS 30L/R: Climb direct EHF VORTAC. Thence....

....From over EHF VORTAC via EHF R-067 to WRING INT. Then via (assigned route).

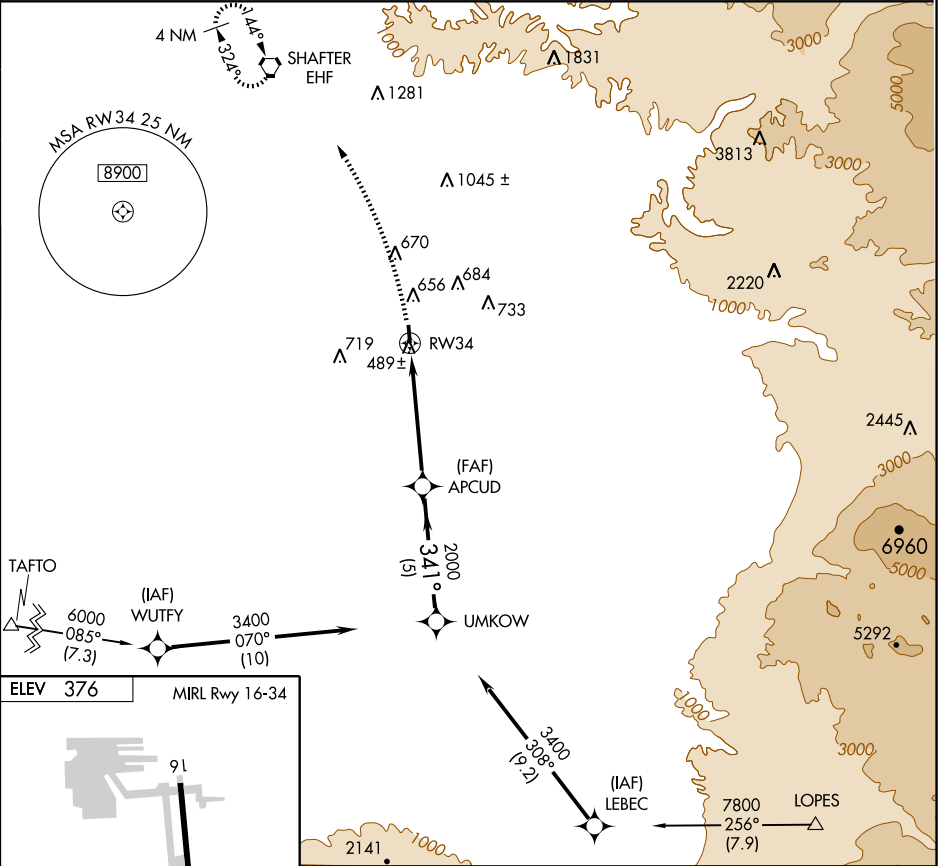
APP CRS	Rwy Idg	4000
341°	TDZE	376
	Apt Elev	376

Use Meadows Field altimeter setting.

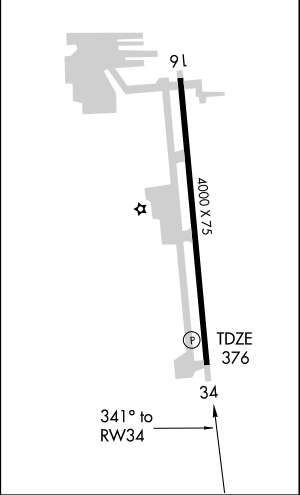
MISSED APPROACH: Climbing left turn to 3000 direct EHF VORTAC and hold.

BAKERSFIELD APP CON ★
126.45 270.3

UNICOM
122.8 (CTAF)



ELEV 376 MRL Rwy 16-34



Procedure Turn NA			
CATEGORY	A	B	D
S-34	780-1	404 (500-1)	780-1¼ 404 (500-1¼)
CIRCLING	1060-1	684 (700-1)	1060-2 684 (700-2) 1080-2¼ 704 (800-2¼)

VORTAC EHF 115.4 Chn 101	APP CRS 320°	Rwy Idg 4000 TDZE 376 Apt Elev 376
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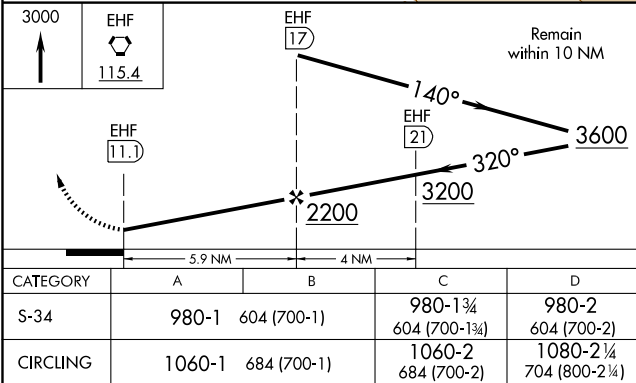
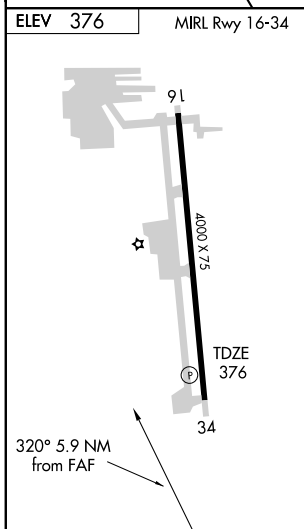
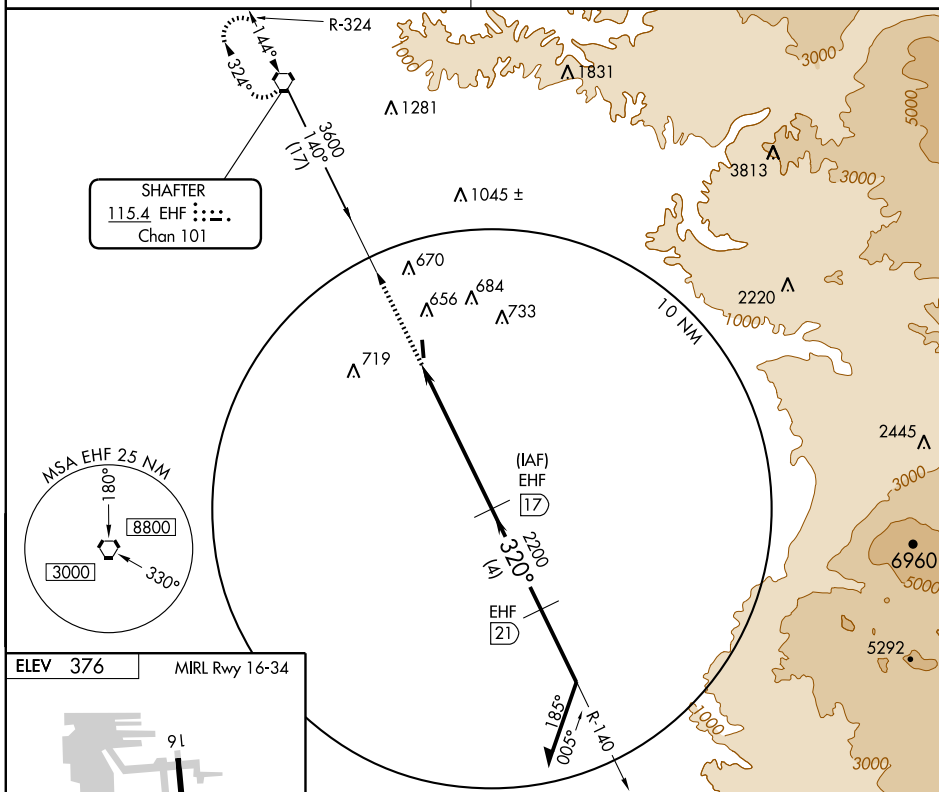
VOR/DME RWY 34
BAKERSFIELD MUNI (L45)

T	
A NA	Use Meadows Field altimeter setting.

MISSED APPROACH: Climb to 3000 direct EHF VORTAC and hold.

BAKERSFIELD APP CON ★
126.45 270.3

UNICOM
122.8 (CTAF)



APP CRS	Rwy Idg	4651
266°	TDZE	4896
	Apt Elev	4900

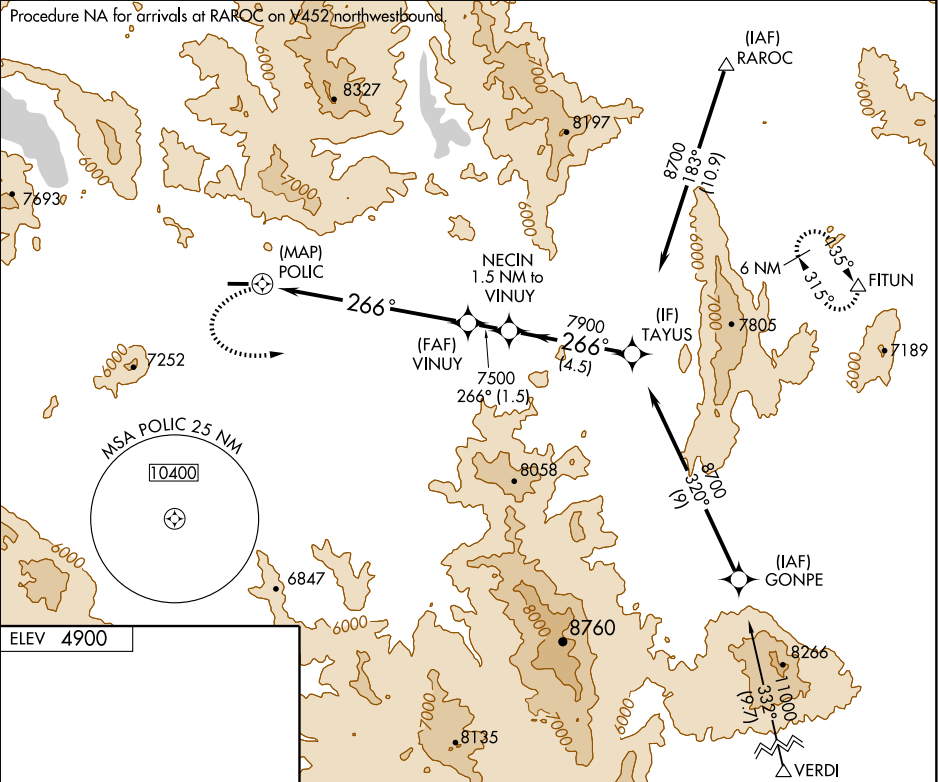
RNAV (GPS) Y RWY 25

BECKWORTH/NERVINO (002)

▼ DME/DME RNP-0.3 NA.
▲ NA Use Reno/Stead altimeter setting; if not received, use Reno/Tahoe Intl altimeter setting and increase all MDAs 180 feet.
Circling NA at night

MISSED APPROACH: Climbing left turn to 10000 direct FITUN and hold.

RENO/STEAD AWOS-3 135.175	RENO APP CON 126.3	UNICOM 122.8 (CTAF)
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ELEV 4900

TDZE 4896

4651 X 75

25

MIRL Rwy 7-25

10000	FITUN	NECIN 1.5 NM to VINUY	TAYUS	8700
		VINUY	266°	
		POLIC	7900	
		≤ 3.02° TCH 44		
		0.5	7.5 NM	1.5 NM
CATEGORY	A	B	C	D
LNAV MDA	7300-1¼ 2404 (2400-1¼)	7300-1½ 2404 (2400-1½)	7300-3	2404 (2400-3)
CIRCLING	7300-1¼ 2400 (2400-1¼)	7300-1½ 2400 (2400-1½)	7300-3	2400 (2400-3)

WAAS CH 49203 W25A	APP CRS 255°	Rwy Idg 4651 TDZE 4896 Apt Elev 4900
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RNAV (GPS) Z RWY 25

BECKWOURTH/NERVINO (002)

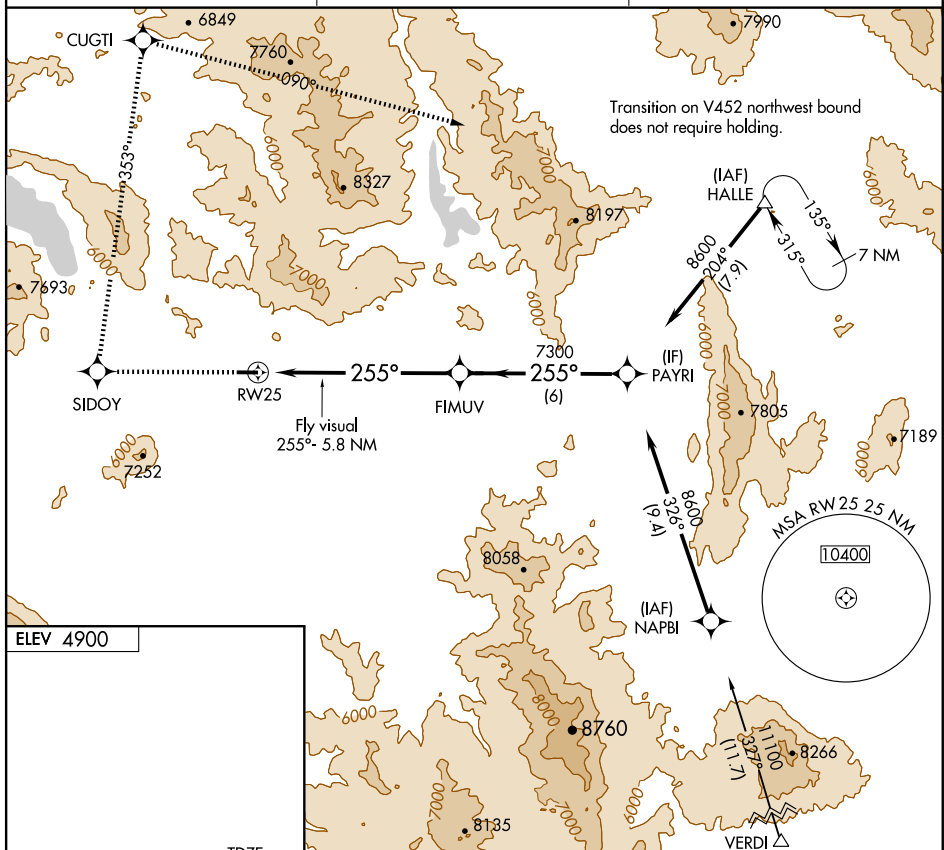
T	Use Reno/Stead altimeter setting; if not received, use Reno/Tahoe Int'l altimeter setting and increase DA 166 feet.
A NA	DME/DME RNP -0.3 NA.
W	Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 direct SIDOY and right turn via 353° track to CUGTI, and right turn 090° track to HALLE and hold.

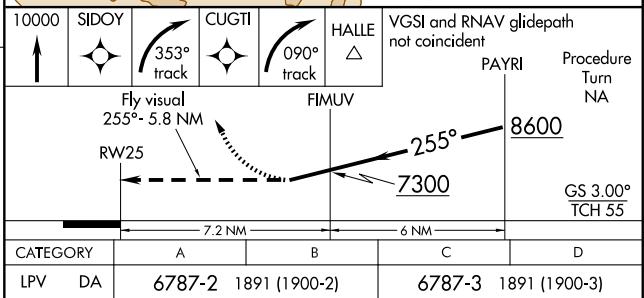
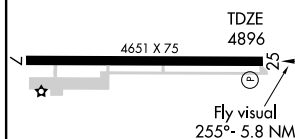
RENO/STEAD AWOS-3
135.175

RENO APP CON
126.3

UNICOM
122.8 (CTAF) **L**

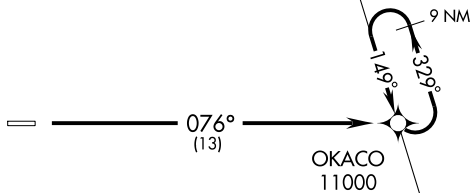


ELEV 4900



OKACO ONE DEPARTURE (RNAV) (OBSTACLE)

LOS ANGELES CENTER
126.35 290.2
UNICOM 122.725



NOTE: TAKE-OFF MINIMUMS: Rwy 8: 1200-2 or standard with minimum climb of 282' per NM to 8000'.

NOTE: For use by slant E, F, and G equipped aircraft only.

NOTE: 7439' MSL trees 2.5 NM from departure end of runway, 2400' right of centerline.

NOTE: 1. GPS required
2. RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb via course 076° to OKACO WP; maintain 11,000' or as assigned by ATC. If not at 11,000' or at assigned cruising altitude upon reaching OKACO WP, climb in holding pattern (hold NW, LT, 149° inbound), unless otherwise advised by ATC.

APP CRS	Rwy Idg	5250
256°	TDZE	6748
	Apt Elev	6748

RNAV (GPS) RWY 26

BIG BEAR CITY (L35)



ANA

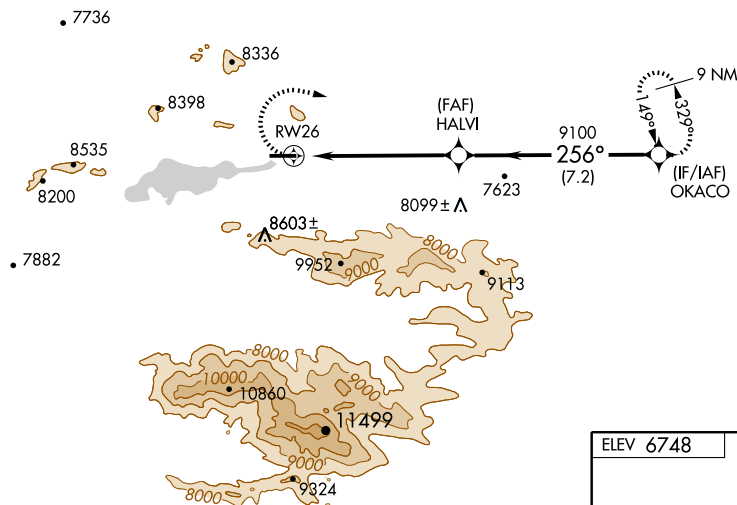
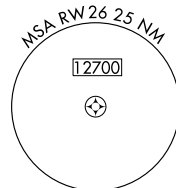
If local altimeter setting not received procedure NA.
Circling NA north of Rwy 8-26, procedure NA at night.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 11000 direct OKACO and hold.

AWOS-3
135.925

LOS ANGELES CENTER
126.35 290.2

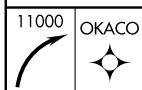
UNICOM
122.725 (CTAF) **L**



SW-3. 14 JAN 2010 to 11 FEB 2010

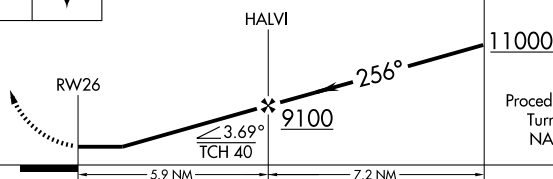
ELEV 6748

Rwy 8 ldg 5480'
Rwy 26 ldg 5250'

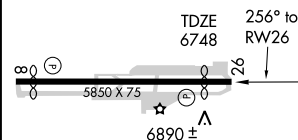


VGSI and descent angles not coincident

OKACO



CATEGORY	A	B	C	D
LNAV MDA	8680-1¼ 1932 (2000-1¼)	8680-1½ 1932 (2000-1½)	NA	
CIRCLING	8680-1¼ 1932 (2000-1¼)	8680-1½ 1932 (2000-1½)	NA	



MIRL Rwy 8-26 L

▼

▲

Visibility reduction by helicopters NA.

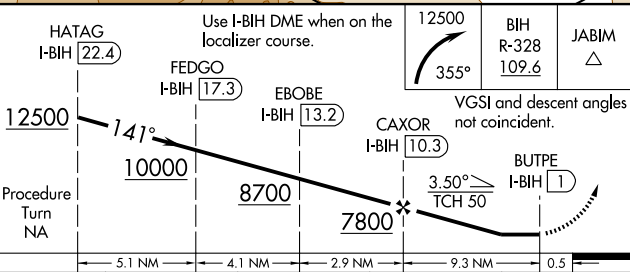
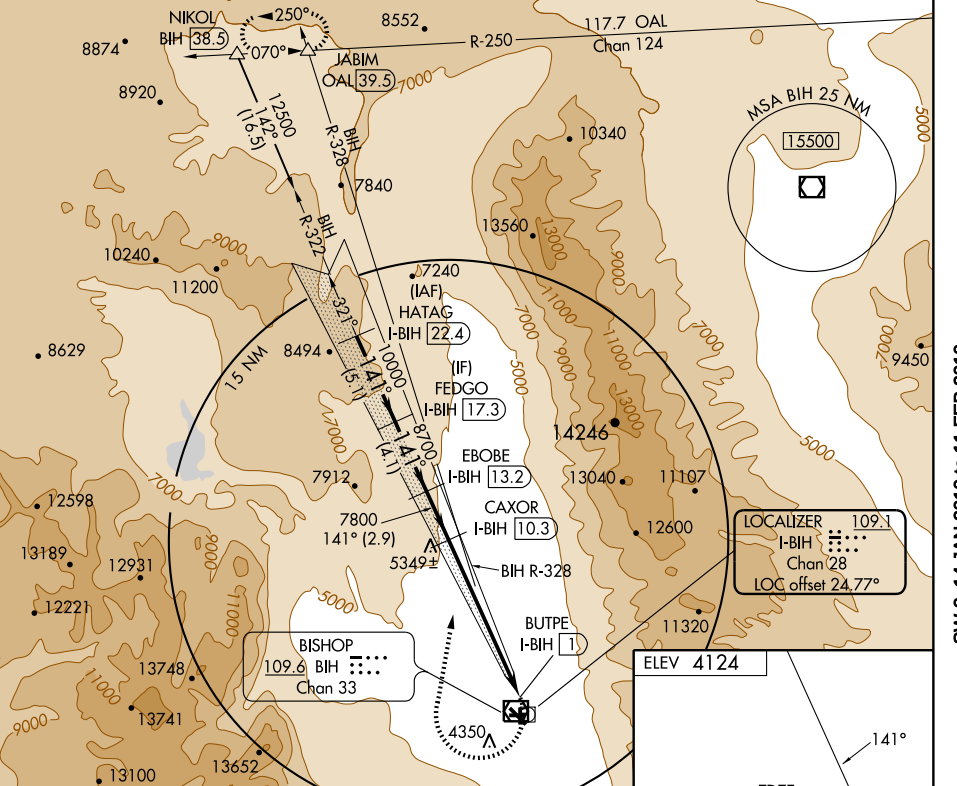
MISSED APPROACH: Climbing right turn to 12500
via heading 355° and via BIH VOR/DME R-328 to
JABIM INT/OAL 39.5 DME and hold.

ASOS
119.025

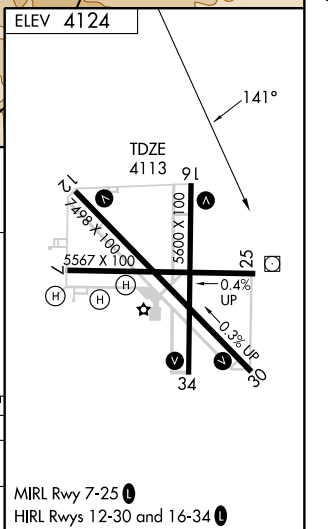
OAKLAND CENTER
125.75 284.65

RIVERSIDE RADIO
122.6

UNICOM
123.0 (CTAF) ①



CATEGORY	A	B	C	D
S-16	6340-1¼ 2227 (2300-1¼)	6340-1½ 2227 (2300-1½)	6340-3	2227 (2300-3)
CIRCLING	6340-1¼ 2216 (2300-1¼)	6340-1½ 2216 (2300-1½)	6340-3	2216 (2300-3)



SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	7498
120°	TDZE	4123
	Apt Elev	4124

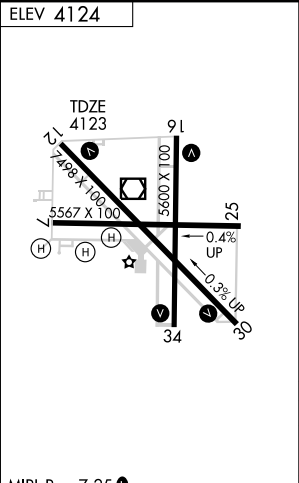
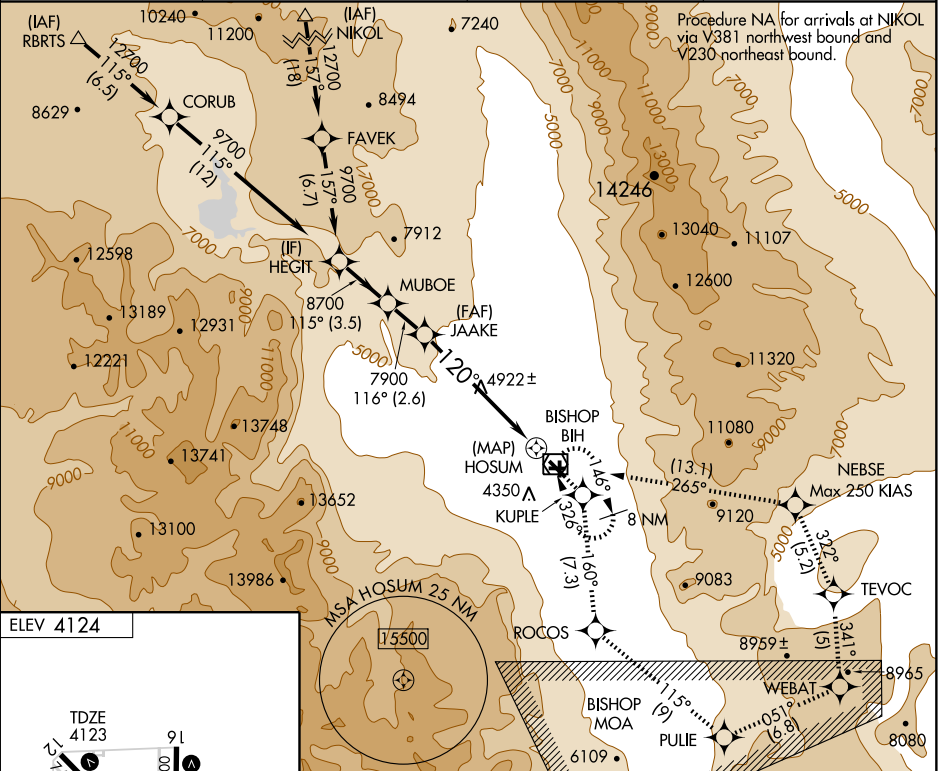
RNAV (GPS) Y RWY 12

BISHOP / EASTERN SIERRA RGNL (BIH)

⚠ When local altimeter setting not received, procedure NA.
Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA

MISSED APPROACH: (Do not exceed 250 KIAS until NEBSE)
Climb to 13000 direct KUPLE, and 160° track to ROCOS,
and 115° track to PULIE, and 051° track to WEBAT, and
341° track to TEVOC, and 322° track to NEBSE, and 265°
track to BIH VOR/DME and hold.

ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) 1
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VGSI and descent angles not coincident.					13000 ↑		KUPLE ✧		160° track		ROCOS ✧	
					HEGIT		MUBOE		JAAKE		HOSUM	
9700					115°		8700		116°		7900	
Procedure Turn NA					3.5 NM		2.6 NM		3.68° TCH 48		120°	
					3.5 NM		2.6 NM		8.5 NM		1 NM	
CATEGORY		A		B		C		D				
LNAV MDA		6600-1¼ 2477 (2500-1¼)		6600-1½ 2477 (2500-1½)		6600-3 2477 (2500-3)		NA				

APP CRS	Rwy Idg	7498
120°	TDZE	4123
	Apt Elev	4124

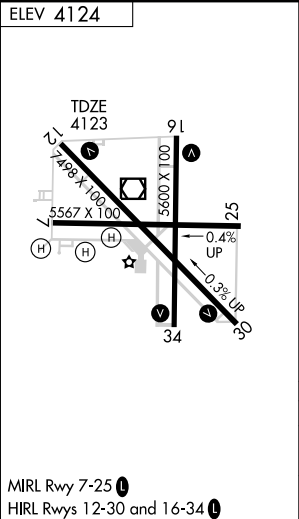
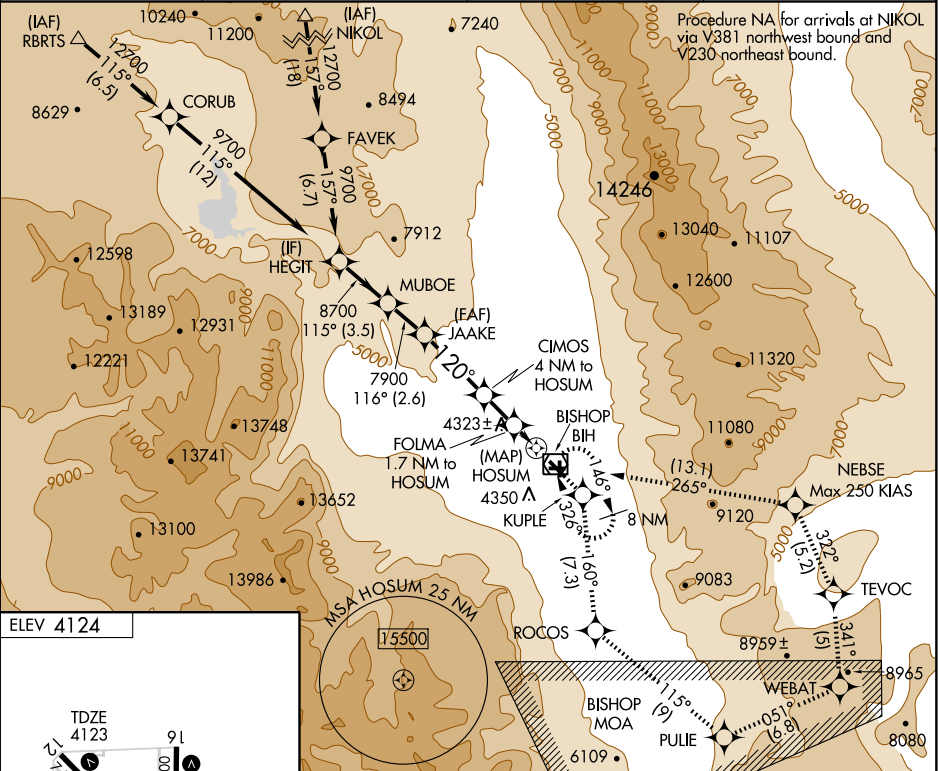
RNAV (GPS) Z RWY 12

BISHOP / EASTERN SIERRA RGNL (BIH)

- When local altimeter setting not received, procedure NA.
- *Missed approach requires minimum climb of 325 feet per NM to 11000; if unable, see RNAV (GPS) Y RWY 12.
- Visibility reduction by helicopters NA.
- DME/DME RNP-0.3 NA

MISSED APPROACH: (Do not exceed 250 KIAS until NEBSE)
Climb to 13000 direct KUPLE, and 160° track to ROCOS, and 115° track to PULIE, and 051° track to WEBAT, and 341° track to TEVOC, and 322° track to NEBSE, and 265° track to BIH VOR/DME and hold.

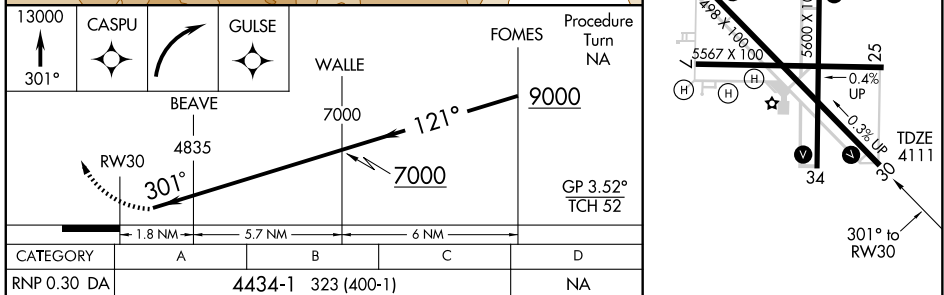
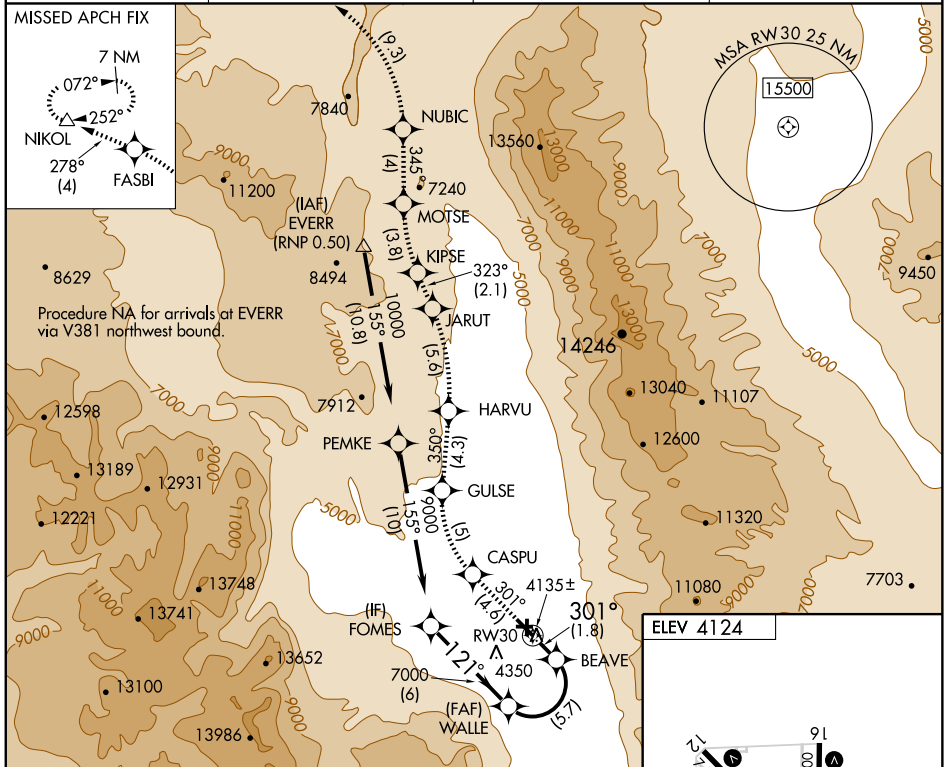
ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) 1
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VGSI and descent angles not coincident.			
Procedure Turn NA	HEGIT	MUBOE	JAAKE
9700	115°	8700	116°
7900	120°	6100	5200
3.5 NM	2.6 NM	4.5 NM	2.3 NM
CATEGORY	A	B	C
LNNAV MDA*	4580-1¼	457 (500-1¼)	NA
CIRCLING	6420-1¼ 2296 (2300-1¼)	6420-1½ 2296 (2300-1½)	6420-3 2296 (2300-3)

APP CRS 301°	Rwy Idg 7498 TDZE 4111 Apt Elev 4124	RF and GPS required. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, procedure NA below -12°C (11°F) or above 38°C (100°F). Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 13000 via 301° track to CASPU, right turn to GULSE, 350° track to HARVU, left turn to JARUT, 323° track to KIPSE, right turn to MOTSE, 345° track to NUBIC, left turn to FASBI, 278° track to NIKOL and hold.
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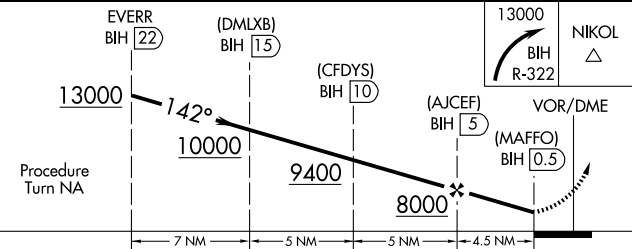
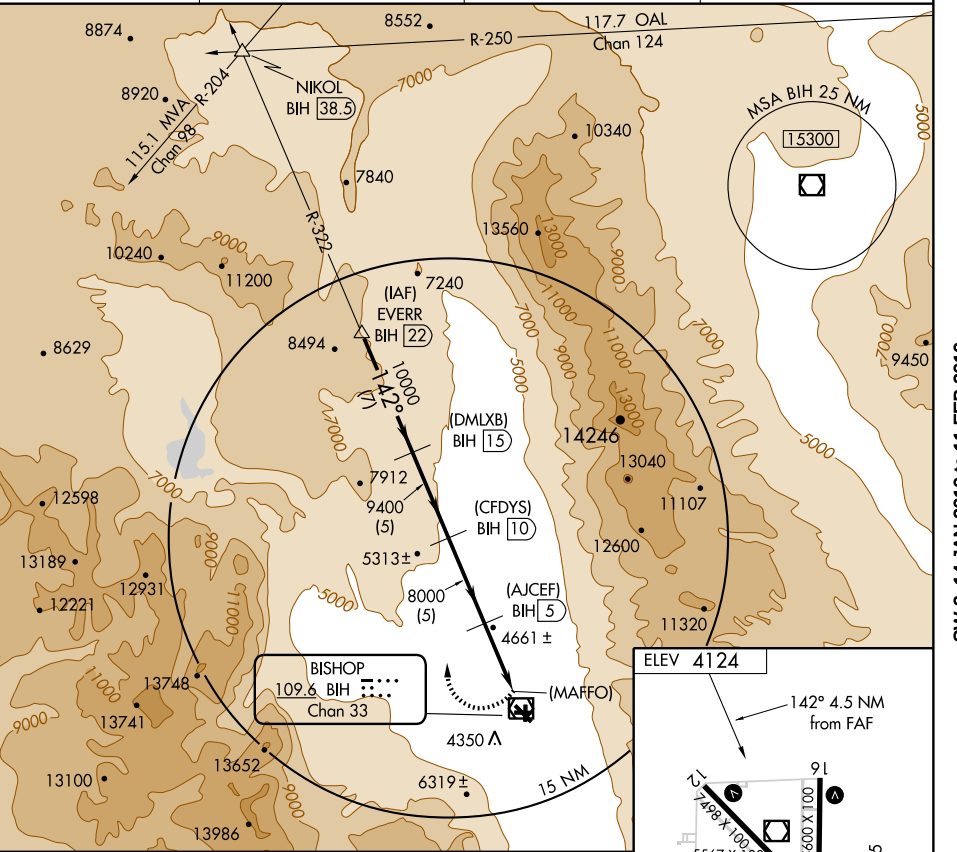
ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) 1
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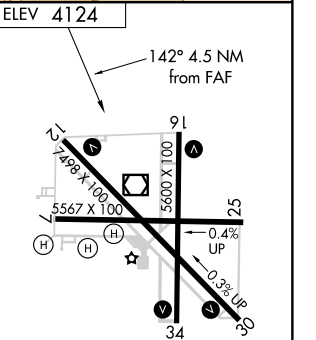
VOR/DME BIH	APP CRS	Rwy Idg	N/A
109.6	142°	TDZE	N/A
Chan 33		Apt Elev	4124

MISSED APPROACH: Climbing right turn to 13000
via BIH R-322 to NIKOL INT/BIH 38.5 DME.

ASOS	OAKLAND CENTER	RIVERSIDE RADIO	UNICOM
119.025	125.75 284.65	122.6	123.0 (CTAF) 



CATEGORY	A	B	C	D
CIRCLING	7300-1¼ 3176 (3200-1¼)	7300-1½ 3176 (3200-1½)	7300-3	3176 (3200-3)



MIRL Rwy 7-25 
HIRL Rwy 12-30 and 16-34 

VOR/DME BIH 109.6 Chan 33	APP CRS 142°	Rwy Idg N/A TDZE N/A Apt Elev 4120
---	------------------------	---

VOR or GPS-A
BISHOP / EASTERN SIERRA RGNL (BIH)

T	If local altimeter setting not received,
A	procedure not authorized.

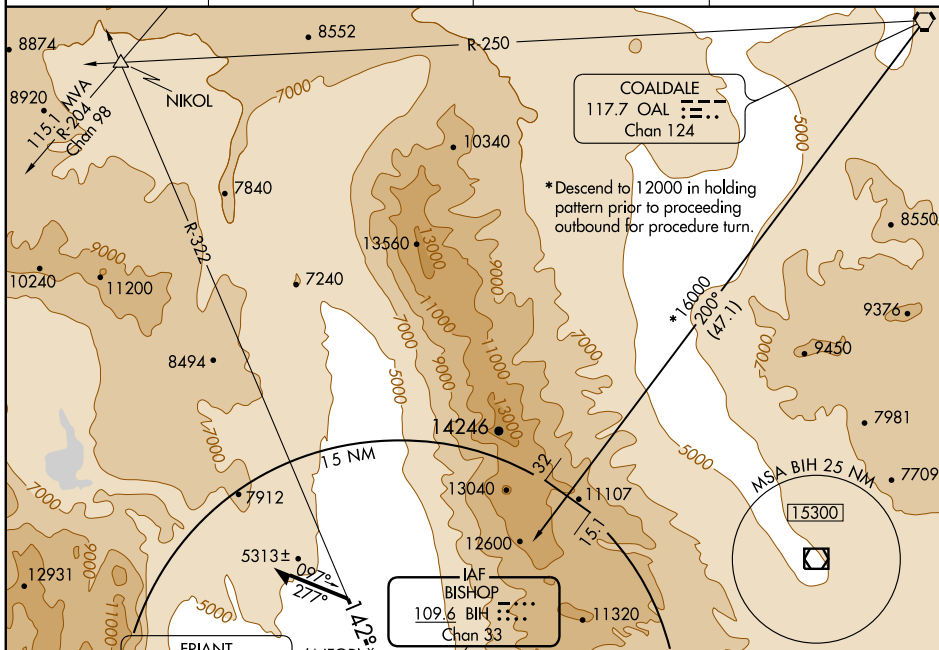
MISSED APPROACH: Climbing right turn to 13000 via BIH R-322 to NIKOL Int.

ASOS
119.025

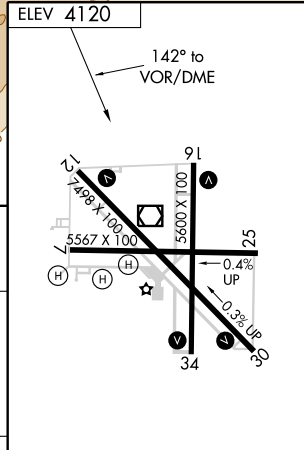
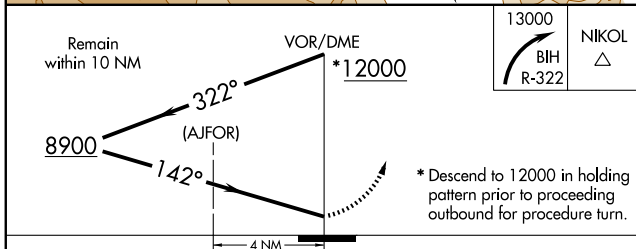
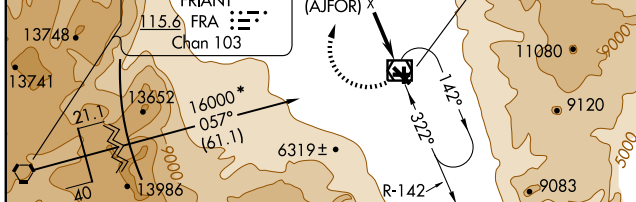
OAKLAND CENTER
125.75 284.65

RIVERSIDE RADIO
122.6

UNICOM
123.0 (CTAF) **L**



SW-2: 14 JAN 2010 to 11 FEB 2010



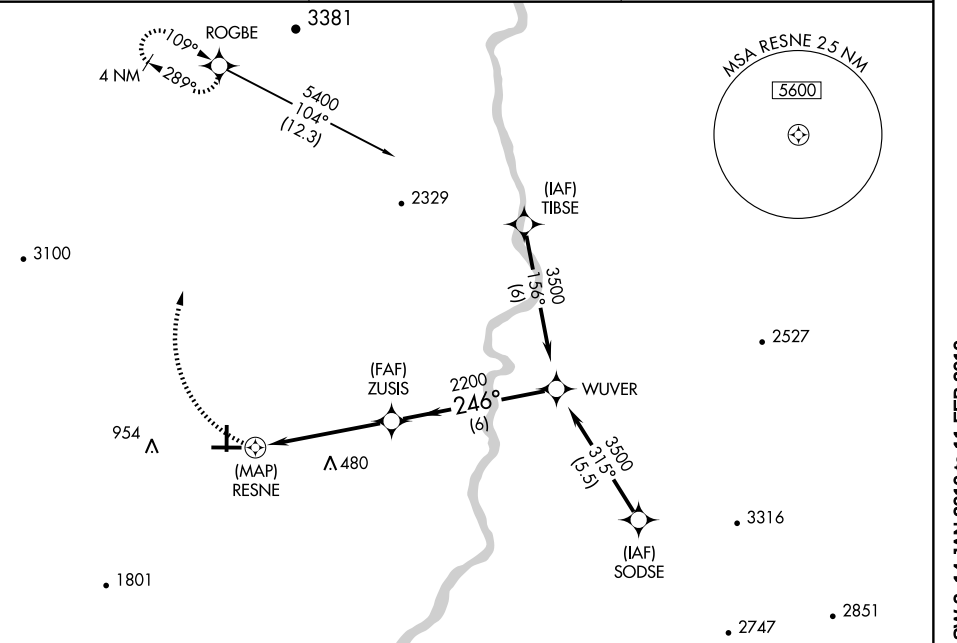
CATEGORY	A	B	C	D
CIRCLING	7400-1¼ 3280 (3300-1¼)	7400-1½ 3280 (3300-1½)	7400-3	3280 (3300-3)

MIRL Rwy 7-25 **L**
HIRL Rwy 12-30 and 16-34 **L**

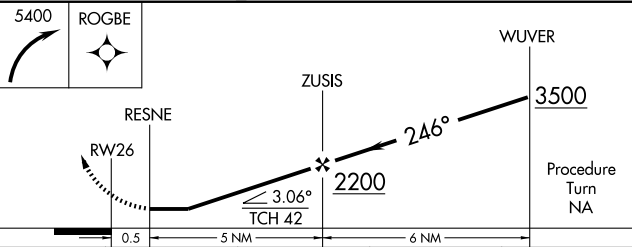
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 5400 direct ROGBE WP and hold.

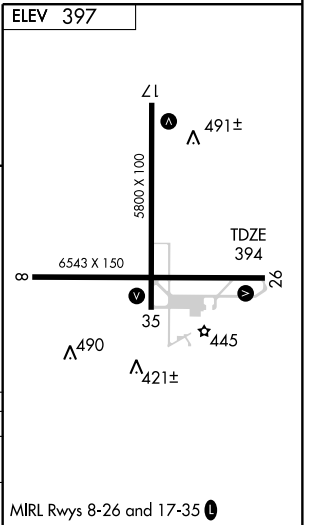
ASOS 120.175	LOS ANGELES CENTER 128.15 285.6	UNICOM 122.8 (CTAF) 1
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Procedure not authorized for arrival at SODSE on V16-V94 eastbound.



CATEGORY	A	B	C	D
LNAV MDA	760-1 366 (400-1)			760-1¼ 366 (400-1¼)
CIRCLING	840-1 443 (500-1)	860-1 463 (500-1)	960-1½ 563 (600-1½)	1260-2¾ 863 (900-2¾)

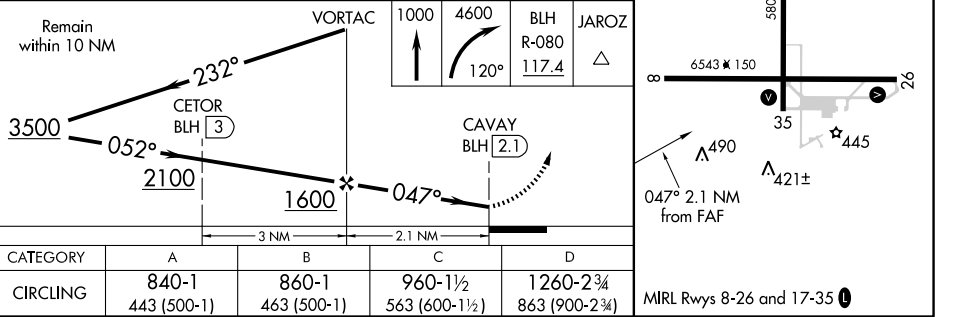
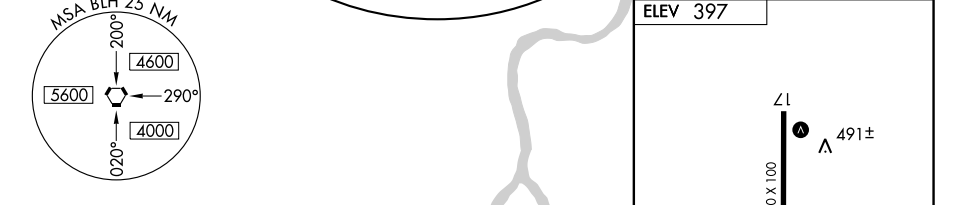
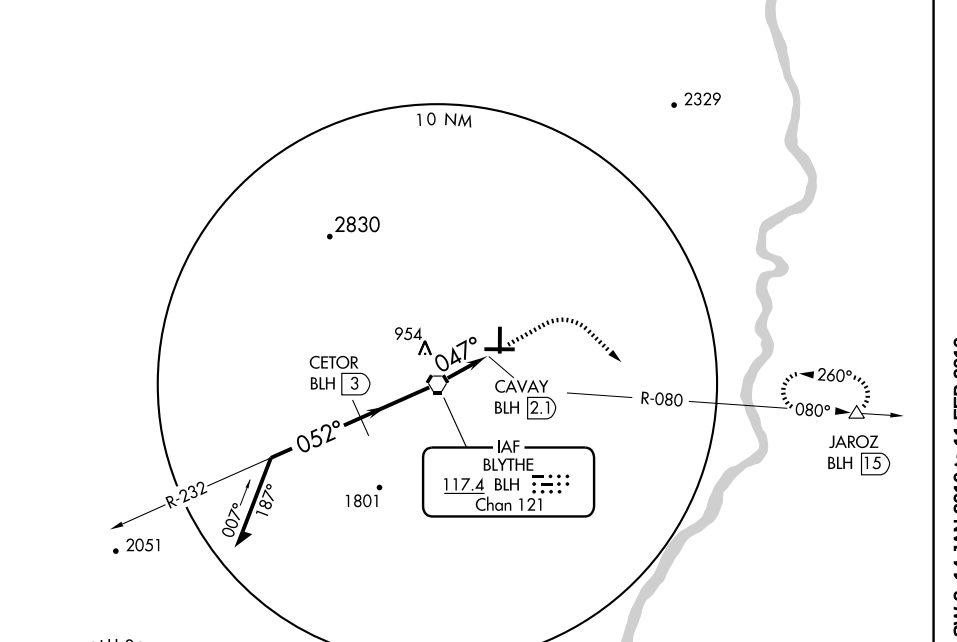


▼

▲

MISSED APPROACH: Climb to 1000, then climbing right turn to 4600 via heading 120° and BLH R-080 outbound to JAROZ/15 DME and hold.

ASOS 120.175	LOS ANGELES CENTER 128.15 285.6	UNICOM 122.8 (CTAF) 0
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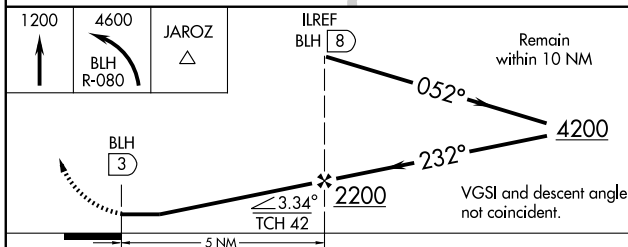
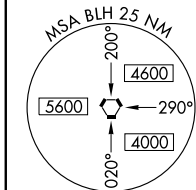
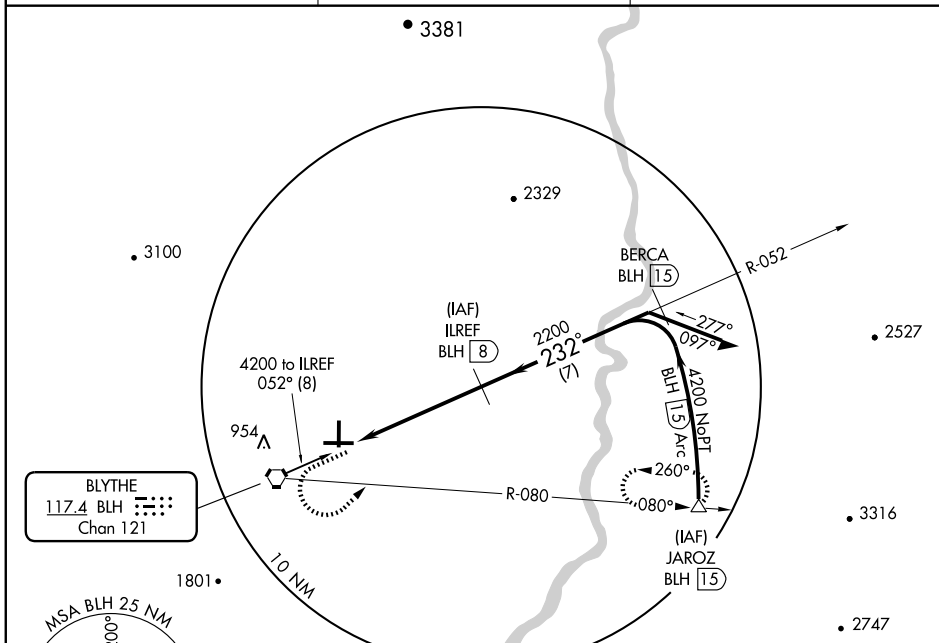
VORTAC BLH	APP CRS	Rwy Idg	6543
117.4	232°	TDZE	394
Chan 121		Apt Elev	397

VOR/DME RWY 26

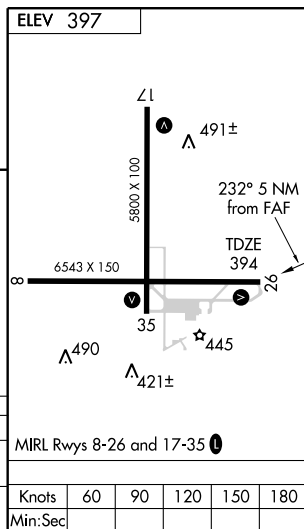
BLYTHE (BLH)

	MISSED APPROACH: Climb to 1200 then climbing left turn to 4600 via BLH VORTAC R-080 to JAROZ/15 DME and hold.
--	---

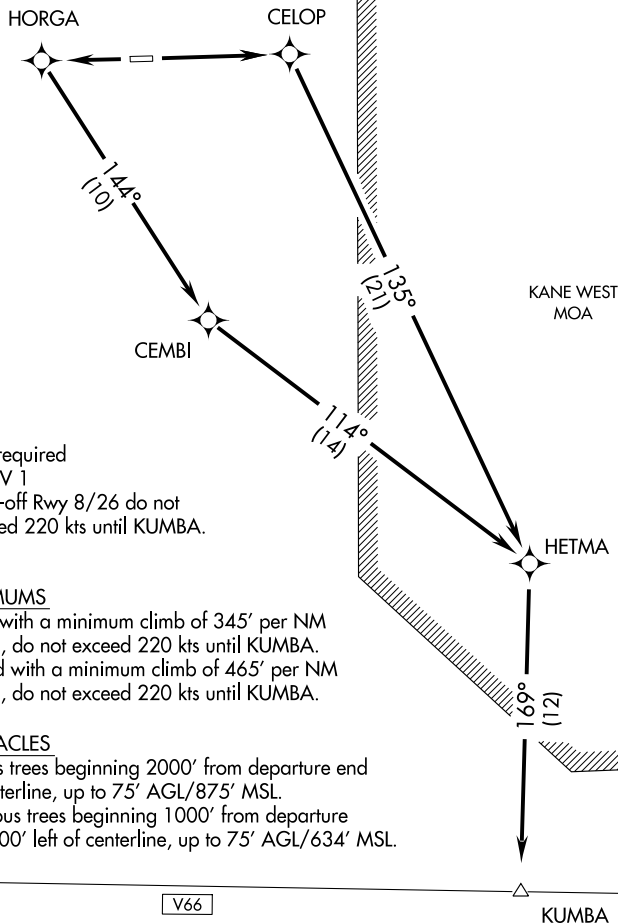
ASOS 120.175	LOS ANGELES CENTER 128.15 285.6	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-26	760-1	366 (400-1)		760-1 1/4 366 (400-1 1/4)
CIRCLING	840-1 443 (500-1)	860-1 463 (500-1)	960-1 1/2 563 (600-1 1/2)	1260-2 3/4 863 (900-2 3/4)



KUMBA ONE DEPARTURE (RNAV)

BORREGO VALLEY (L08)
BORREGO SPRINGS, CALIFORNIALOS ANGELES CENTER
128.6 291.7
CTAF 122.8
AWOS-1 126.575

- NOTE:
1. GPS required
 2. RNAV 1
 3. Take-off Rwy 8/26 do not exceed 220 kts until KUMBA.

TAKE-OFF MINIMUMS

Rwy 8: Standard with a minimum climb of 345' per NM to 5000, do not exceed 220 kts until KUMBA.

Rwy 26: Standard with a minimum climb of 465' per NM to 5000, do not exceed 220 kts until KUMBA.

TAKE-OFF OBSTACLES

Rwy 8: Numerous trees beginning 2000' from departure end of runway on centerline, up to 75' AGL/875' MSL.

Rwy 26: Numerous trees beginning 1000' from departure end of runway, 400' left of centerline, up to 75' AGL/634' MSL.

SW-3, 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

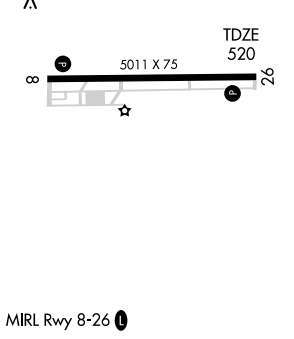
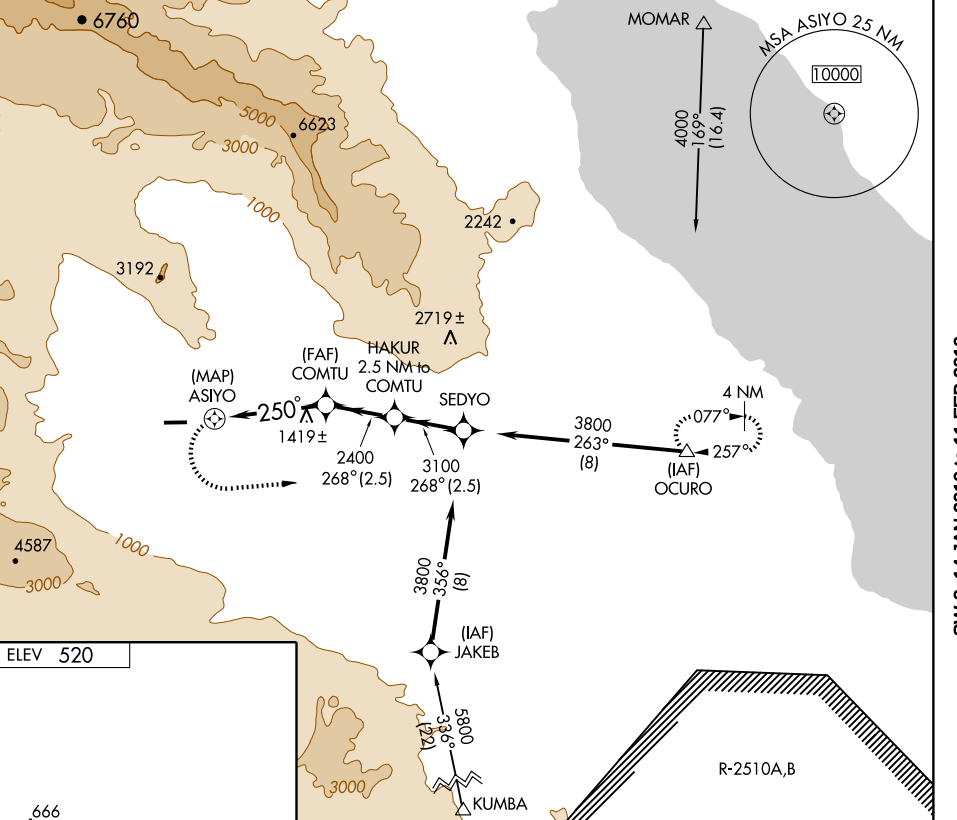
TAKE-OFF RUNWAY 8: Climb direct CELOP then via depicted route to KUMBA.

TAKE-OFF RUNWAY 26: Climb direct HORG, and left turn 144° track to CEMBI, then via depicted route to KUMBA.

NA If local altimeter setting not received, use Imperial County altimeter setting and increase all MDAs 580 feet.
Circling not authorized south of Rwy 8-26.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct OCURO WP and hold.

AWOS-1 126.575	LOS ANGELES CENTER 128.6 291.7	UNICOM 122.8 (CTAF) 0
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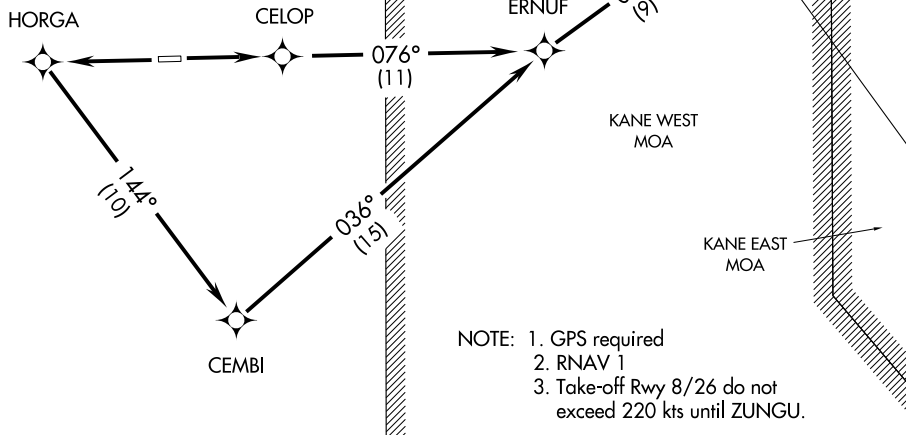


4000	OCURO	* VDP not authorized with Imperial County altimeter setting. VGSI and descent angles not coincident.			
		* 3.6 NM to RWY 26			
		ASIYO	COMTU	HAKUR 2.5 NM to COMTU	SEDYO
		250°	2400	3100	3800
		1 NM	2.6 NM	1.4 NM	2.5 NM
					2.5 NM
CATEGORY	A	B	C	D	
RNAV MDA	1720-1¼ 1200 (1200-1¼)	1720-1½ 1200 (1200-1½)	1720-3	1200 (1200-3)	
CIRCLING	1720-1¼ 1200 (1200-1¼)	1720-1½ 1200 (1200-1½)	1720-3	1200 (1200-3)	

SW-3, 14 JAN 2010 to 11 FEB 2010

ZUNGU ONE DEPARTURE (RNAV) (OBSTACLE)

LOS ANGELES CENTER
128.6 291.7
CTAF 122.8
AWOS-1 126.575



TAKE-OFF MINIMUMS

Rwy 8: Standard with a minimum climb of 335' per NM to 2000, do not exceed 220 kts until ZUNGU.

Rwy 26: Standard with a minimum climb of 465' per NM to 5000, do not exceed 220 kts until ZUNGU.

TAKE-OFF OBSTACLES

Rwy 8: Numerous trees beginning 2000' from departure end of runway on centerline, up to 75' AGL/875' MSL.

Rwy 26: Numerous trees beginning 1000' from departure end of runway, 400' left of centerline, up to 75' AGL/634' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb direct CELOP then via depicted route to ZUNGU.

TAKE-OFF RUNWAY 26: Climb direct HORGA, and left turn 144° track to CEMBI, then via depicted route to ZUNGU.

APP CRS	Rwy Idg	4007
272°	TDZE	-135
	Apt Elev	-129

RNAV (GPS) RWY 26

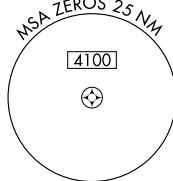
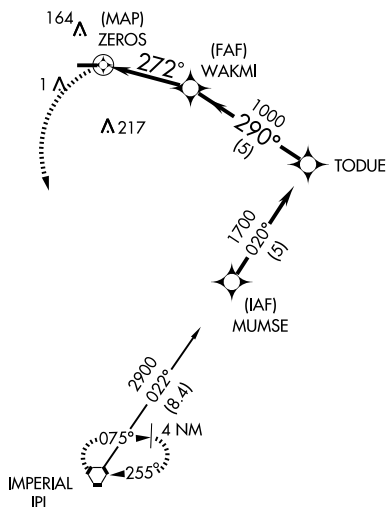


GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
Use Imperial County altimeter setting.

MISSED APPROACH: Climbing left turn to 3600 direct IPL VORTAC and hold.

LOS ANGELES CENTER
128.6 291.7

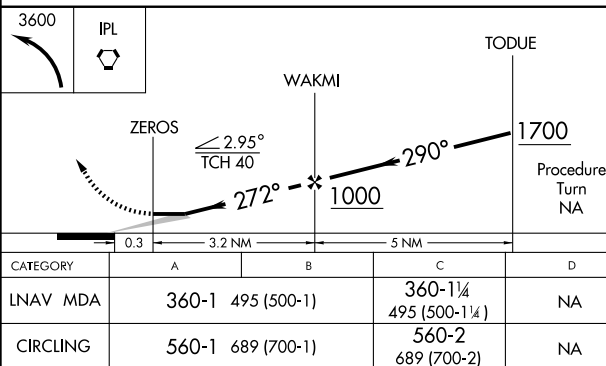
CTAF
122.9



ELEV -129

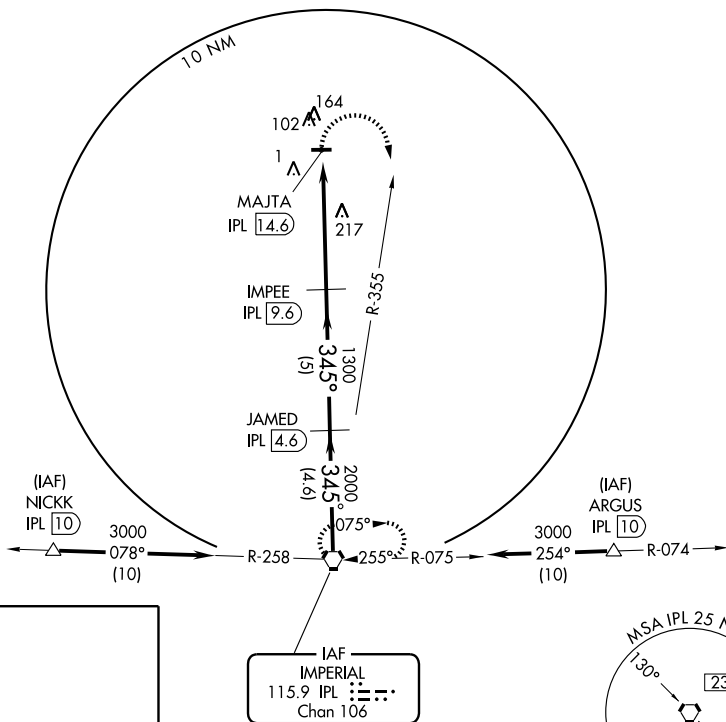


A571

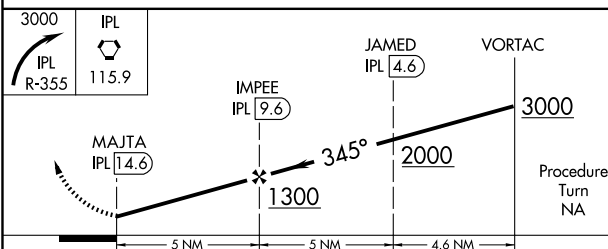
MIRL Rwy 8-26 **L**

MISSED APPROACH: Climbing right turn to 3000 via IPL R-355 to IPL VORTAC and hold.

CTAF
122.9 **L**



SW-3. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
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CIRCLING	560-1 689 (700-1)
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NA

▼

▲ NA

Use Imperial County altimeter setting.

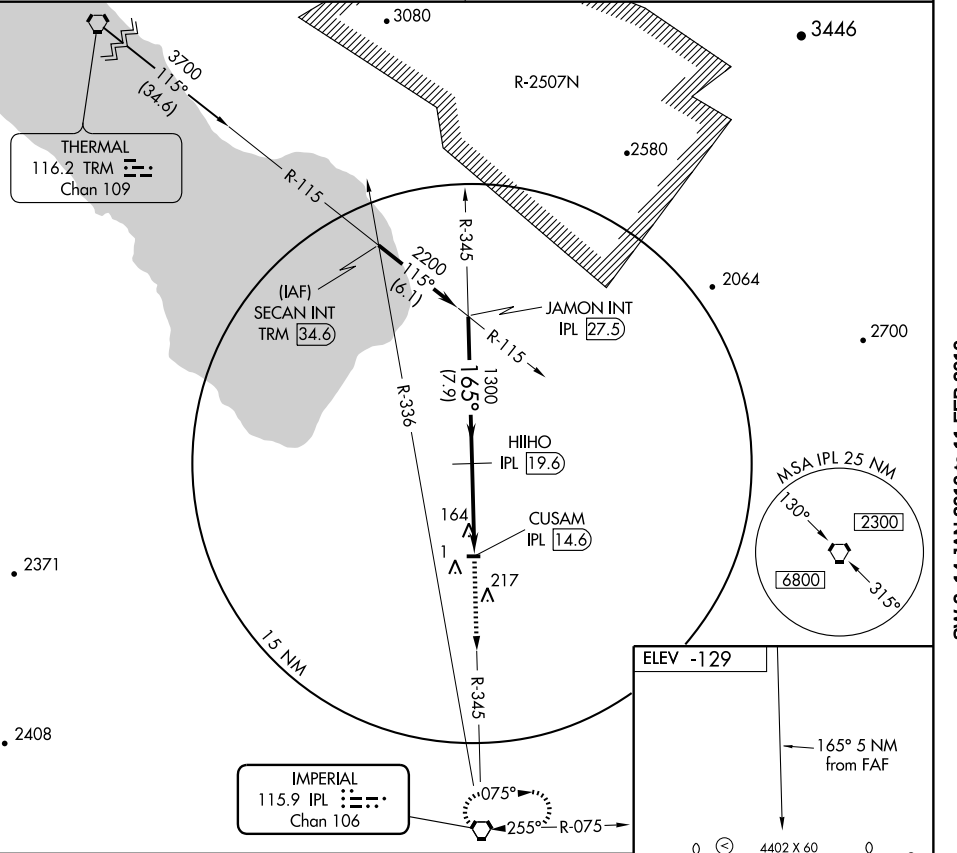
MISSED APPROACH: Climb to 3000 direct IPL VORTAC and hold.

LOS ANGELES CENTER

128.6 291.7

CTAF

122.9



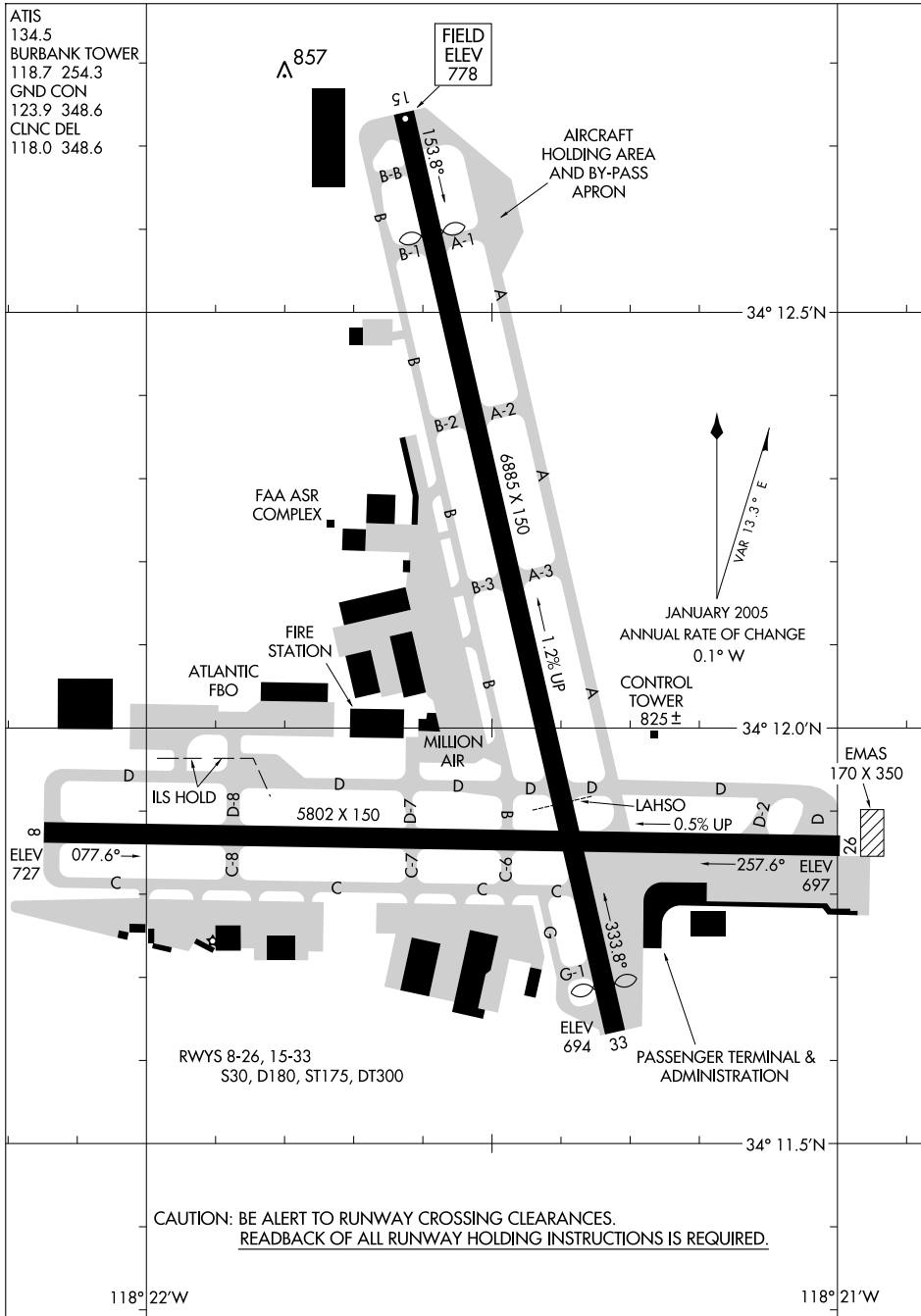
JAMON INT IPL 27.5 HIIHO IPL 19.6 CUSAM IPL 14.6			
2200 165° 1300 7.9 NM 5 NM			
3000 IPL 115.9			
Procedure Turn NA			
CATEGORY A B C D			
CIRCLING 560-1 689 (700-1) NA			
MRL Rwy 8-26			

AIRPORT DIAGRAM

AL-67 (FAA)

BURBANK/ BOB HOPE (BUR)
BURBANK, CALIFORNIA

ATIS
134.5
BURBANK TOWER
118.7 254.3
GND CON
123.9 348.6
CLNC DEL
118.0 348.6



SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS 134.5
CLNC DEL
118.0 348.6
GND CON
123.9 348.6
SOCAL DEP CON
135.05 317.5

NOTE: This SID requires a minimum climb rate to MEA as follows:

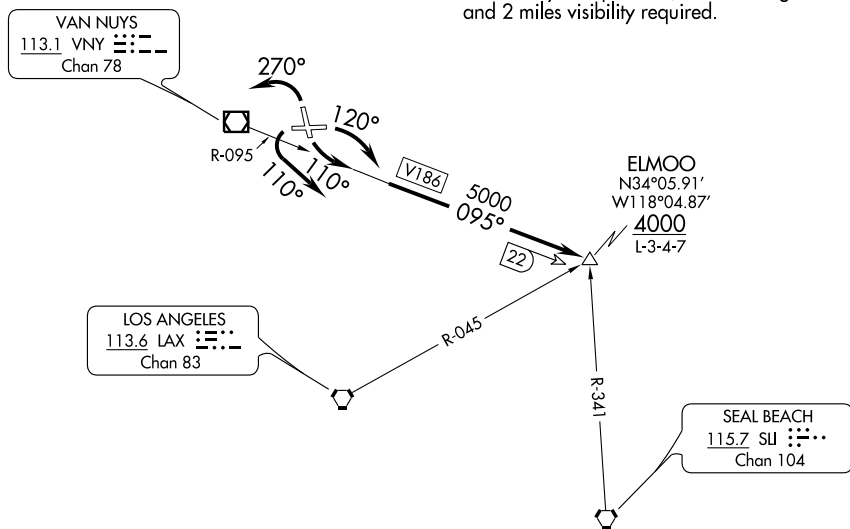
Take-offs Rwy 8, Cats A and B, 480' per NM.
Cats C and D, 650' per NM.

Take-offs Rwy 15, 340' per NM.

Take-offs Rwy 26, 250' per NM.

Take-offs Rwy 33, 390' per NM.

NOTE: For Runway 8 departures, 2100 ceiling and 2 miles visibility required.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Turn right heading 120° as soon as practicable after take-off, intercept and proceed via VNY R-095 to ELMOO INT. Then via (assigned route).

TAKE-OFF RUNWAY 15: Turn left heading 110° as soon as practicable after take-off, intercept and proceed via VNY R-095 to ELMOO INT. Then via (assigned route).

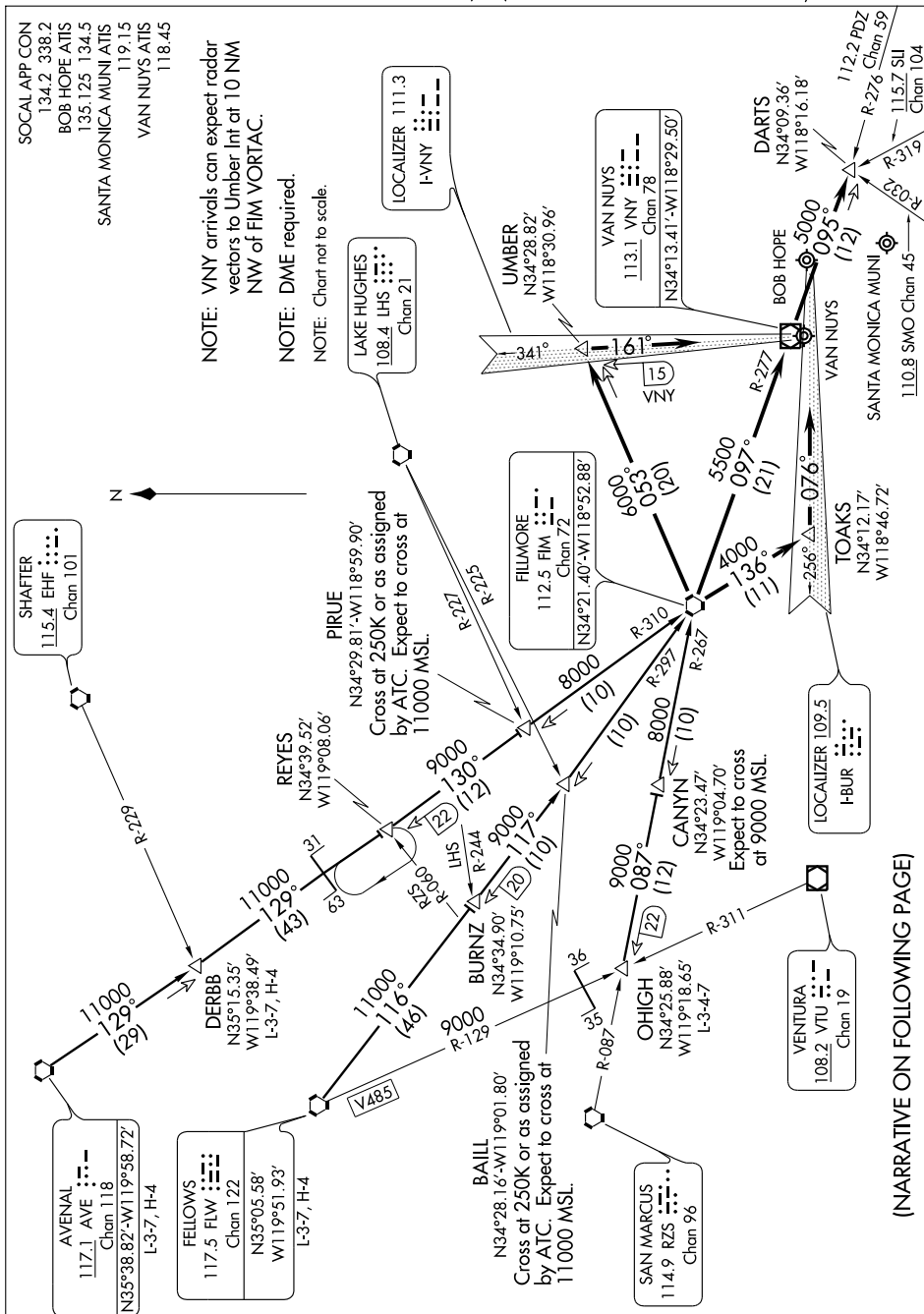
TAKE-OFF RUNWAY 26: Turn left heading 110° as soon as practicable after take-off for vector to VNY R-095. Then via VNY R-095 to ELMOO INT. Then via (assigned route).

TAKE-OFF RUNWAY 33: Turn left heading 270° as soon as practicable after take-off for vector to VNY R-095. Then via VNY R-095 to ELMOO INT. Then via (assigned route).

FERNANDO FIVE ARRIVAL

ST-67 (FAA)

BURBANK, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.FERN5): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.FERN5): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

FELLOWS TRANSITION (FLW.FERN5): From over FLW VORTAC via FLW R-116 and FIM R-297 to FIM VORTAC. Thence....

OHIGH TRANSITION (OHIGH.FERN5): From over OHIGH INT via FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC:

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY VOR/DME; then via VNY R-095 to DARTS INT. Expect VOR-A approach.

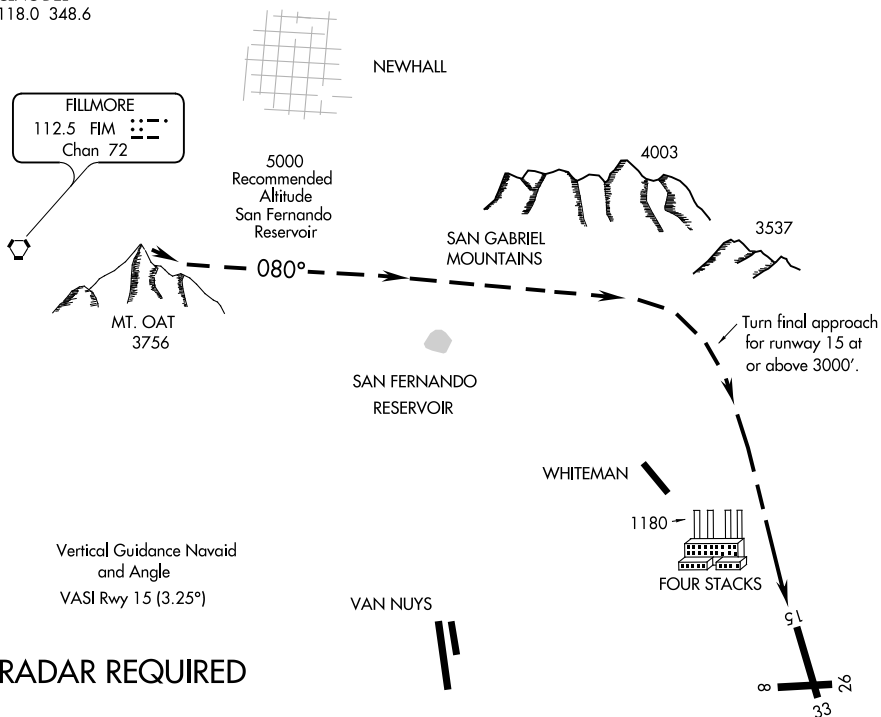
LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land RWY 34L.

FOUR STACKS VISUAL RWY 15

BURBANK/BOB HOPE (BUR)
BURBANK, CALIFORNIA

ATIS 134.5
SOCAL APP CON
134.2 338.2
BURBANK TOWER
118.7 254.3
GND CON
123.9 348.6
CLNC DEL
118.0 348.6



Weather Minimums: 5500 feet ceiling
and 5 mile visibility.

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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FOUR STACKS VISUAL APPROACH RWY 15

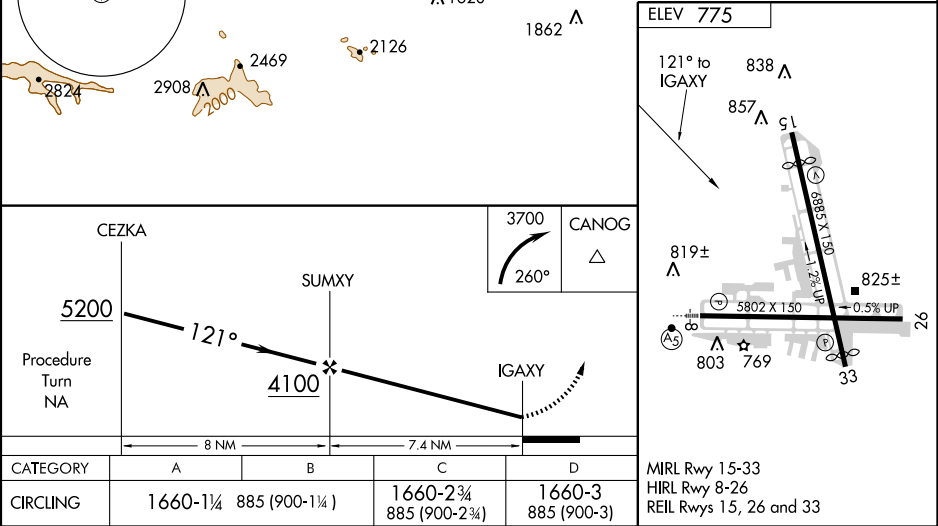
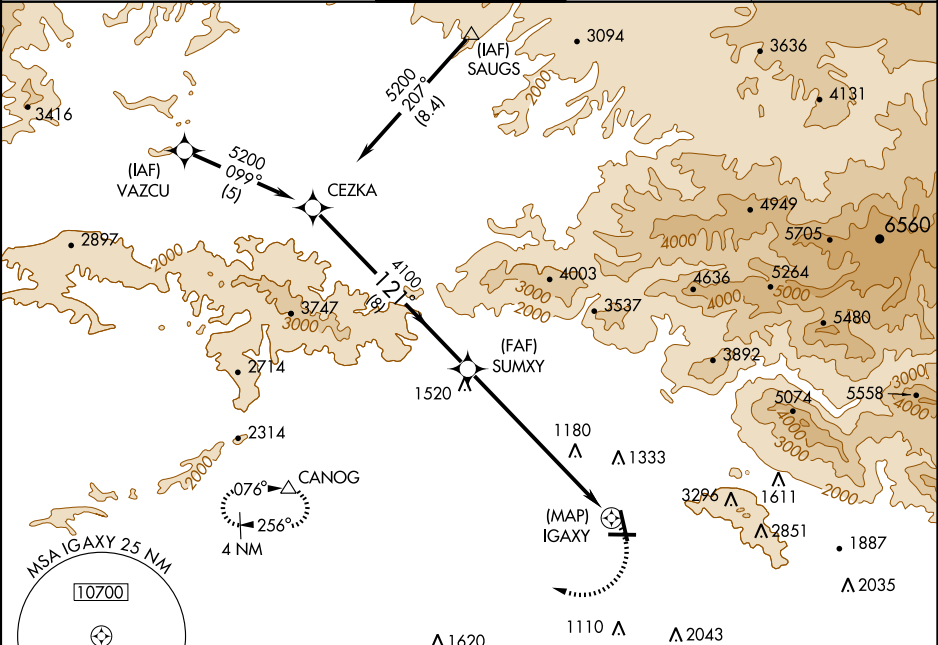
When Visual Approaches to Runway 15 are in progress, clearances will be given to aircraft from the Northwest thru Northeast utilizing the following phraseology:

"(IDENT) CLEARED FOR FOUR STACKS VISUAL
APPROACH TO RUNWAY 15."

APP CRS	Rwy Idg	N/A
121°	TDZE	N/A
	Apt Elev	775

 NA	Circling not authorized NE of Rwys 15 and 26.	MISSED APPROACH: Climbing right turn to 3700 via course 260° to CANOG WP and hold.
--	---	--

ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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▼

Visibility reduction by helicopters NA. Circling NA northeast Rwy 15 and 26.

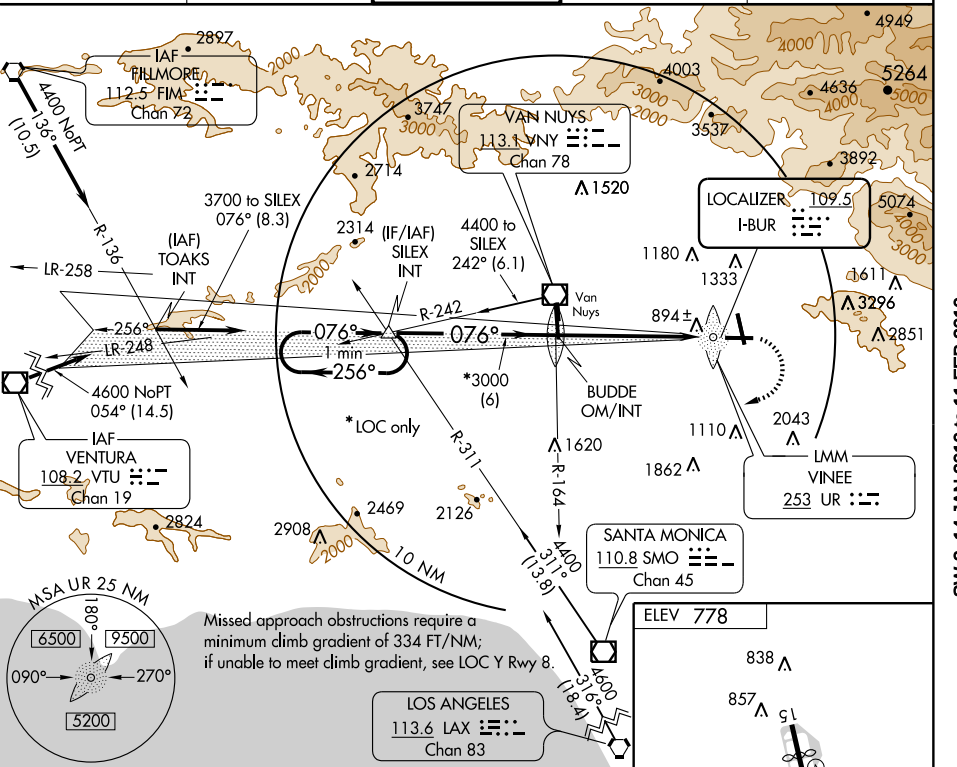
▲

For inoperative MALSR, increase S-LOC 8 Cats C,D visibility to RVR 6000. Inoperative table does not apply to S-ILS 8 all Cats. Inoperative table does not apply to S-LOC 8 Cats A,B. ILS unusable from VINEE LMM inbound. Autopilot coupled approach not authorized below 977 MSL.

MALSR

MISSED APPROACH: Climb to 1300 then climbing right turn to 4000 direct VNY VOR/DME then via VNY VOR/DME R-242 to SILEX Int and hold.

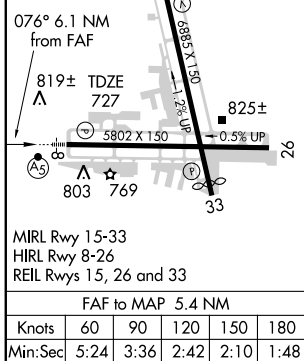
ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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One Minute Holding Pattern	SILEX INT	BUDDE OM/INT	VGSJ and descent angles not coincident.	VINEE LMM	6 NM	5.6 NM	0.4
GS 3.00° TCH 60	3700	256°	076°	3000	*3000	*LOC only	
CATEGORY	A	B	C	D			
S-ILS 8		977/50	250 (200-1)				
S-LOC 8		1140/50	413 (400-1)				
CIRCLING	1240-1	462 (500-1)	1280-1½ 502 (600-1½)	1440-2 662 (700-2)			
FAF to MAP 5.4 NM							
MIRL Rwy 15-33 HIRL Rwy 8-26 REIL Rwy 15, 26 and 33							
					Knots	60	90 120 150 180
					Min:Sec	5:24	3:36 2:42 2:10 1:48

SW-3. 14 JAN 2010 to 11 FEB 2010

ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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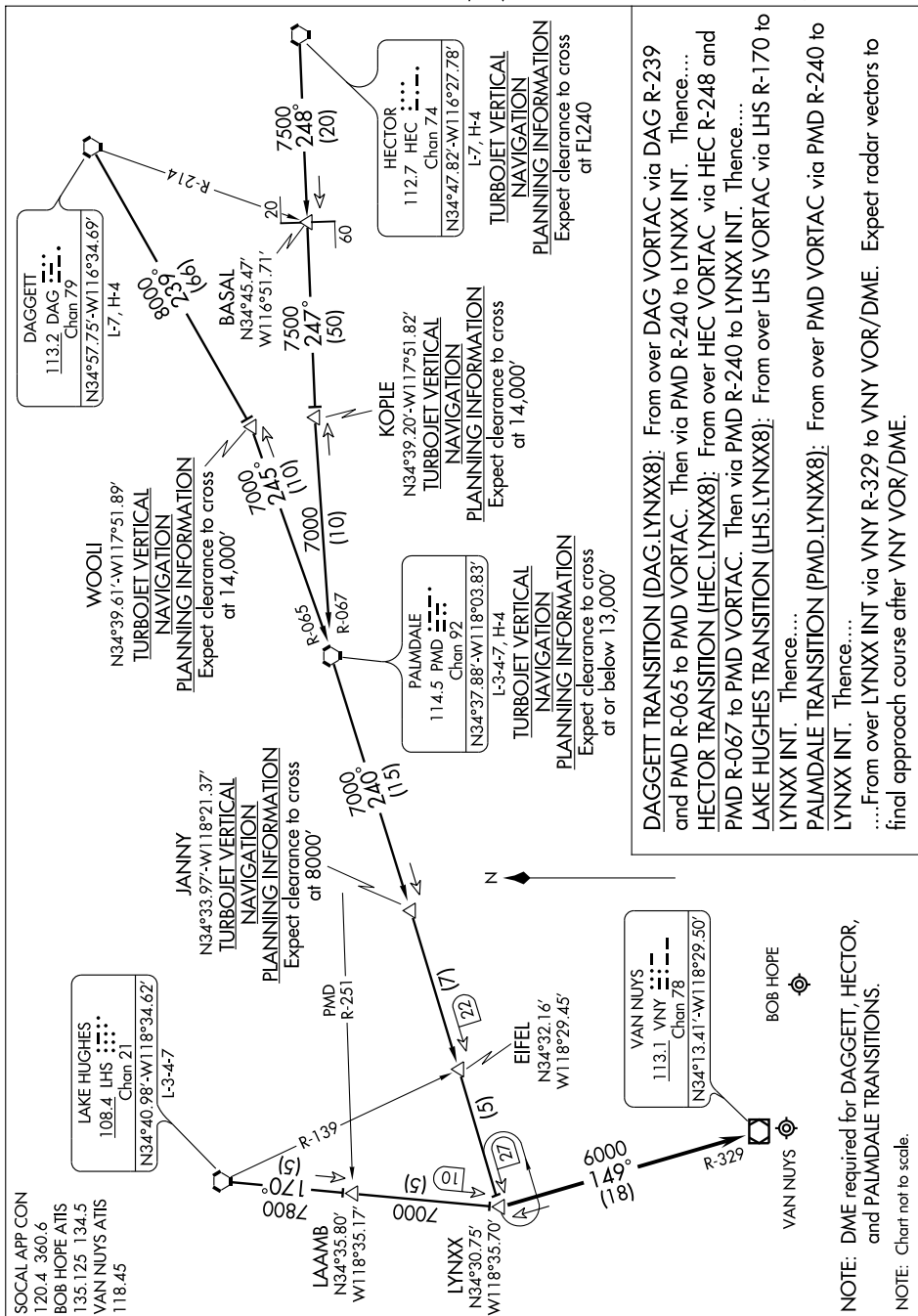


One Minute Holding Pattern		SILEX INT		BUDDE OM/INT		2000 ↑	4000 ↗	VNY 113.1 	VNY R-242 113.1 	SILEX △
3700 ← 256° 076° →		076°		3000		3.45° TCH 50		VINEE LMM		
VGSI and descent angles not coincident.		6 NM		5.6 NM		0.4				
CATEGORY	A	B		C		D				
S-8	1600/50	873 (900-1)		1600-2 873 (900-2)		1600-2¼ 873 (900-2¼)				
CIRCLING	1600-1 822 (900-1)	1600-1¼ 822 (900-1¼)		1600-2½ 822 (900-2½)		1600-2¾ 822 (900-2¾)				

LYNXE EIGHT ARRIVAL

ST-67 (FAA)

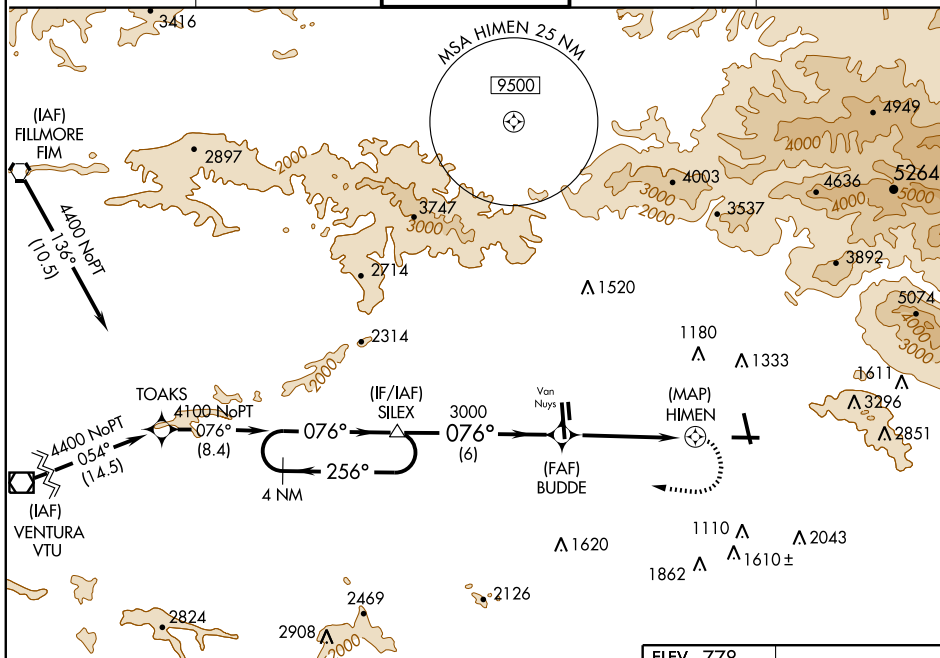
BURBANK, CALIFORNIA



Rwy Idg	5802
TDZE	727
Apt Elev	778

MISSED APPROACH: Climbing right turn to 4100 direct SILEX WP and hold.

CLNC DEL
118.0 348.6



SW-3, 14 JAN 2010 to 11 FEB 2010

4 NM Holding Pattern

SILEX

4100

256°

076°

076°

BUDDIE

3.45°

TCH 50

HIMEN

3000

VGSI and descent angles not coincident

6 NM

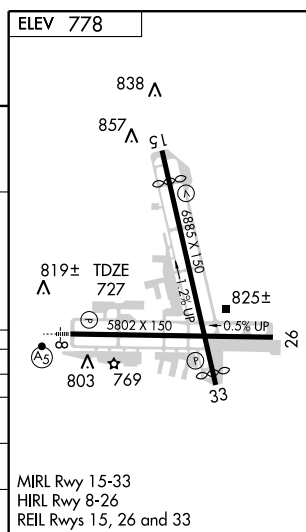
48 NM

13 NM

4100

SILEX

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/ VNAV DA	NA			
LNAV MDA	1600/50 873 (900-1)	1600-2 873 (900-2)	1600-2¼ 873 (900-2¼)	
CIRCLING	1600-1½ 822 (900-1½)	1600-2½ 822 (900-2½)	1600-2¾ 822 (900-2¾)	



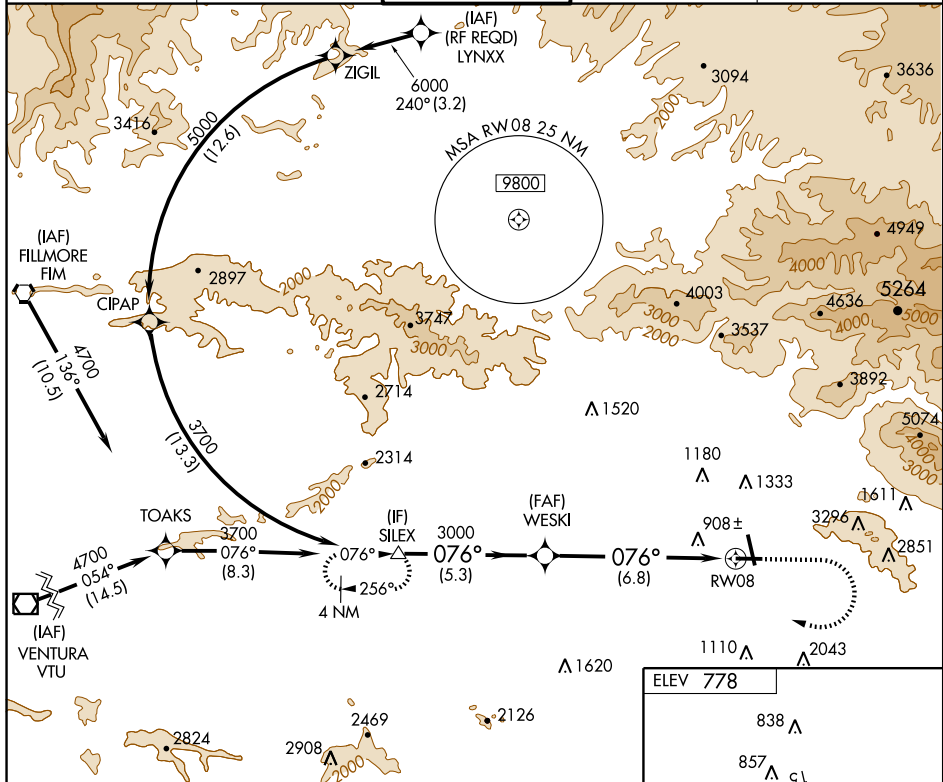
APP CRS	Rwy Idg	5802
076°	TDZE	727
	Apt Elev	778

RNAV (RNP) Z RWY 8

BURBANK/BOB HOPE (BUR)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (33°F) or above 47°C (117°F). Visibility reduction by helicopters NA. For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1¾ mile. *Missed approach requires minimum climb of 391 feet per NM to 2700 if unable see RNAV (GPS) Y Rwy 8.	MALSR	MISSED APPROACH: Climb to 1700 then climbing right turn to 4000 direct SILEX and hold.
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ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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SILEX VGSI and RNAV glidepath not coincident.					1700 4000 SILEX △	
3700 Procedure Turn NA GP 3.00° TCH 60		WESKI 3000 3000 076° 5.3 NM 6.8 NM			RW08	
CATEGORY	A	B	C	D		
RNP 0.30 DA*	1260/60 533 (500-1¼)					
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED						

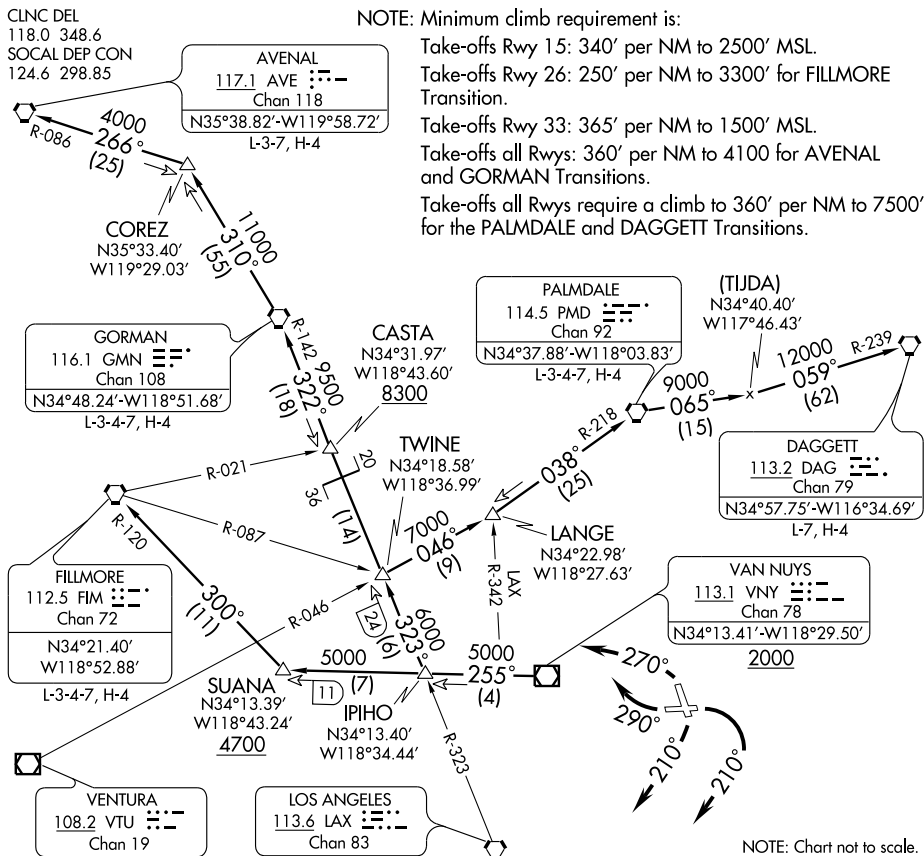
819± TDZE 727
5802 X 150
825±
803 769 33
076° to RW08

6885 X 150
2% UP
0.5% UP

MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rws 15, 26 and 33

VAN NUYS SEVEN DEPARTURE

SL-67 (FAA)

BURBANK/BOB HOPE (BUR)
BURBANK, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Turn right heading 210° as soon as practicable after take-off. Expect vector to VNY VOR/DME. Thence via (transition) or (assigned route).

NOTE: Runway 8 departures not authorized when weather conditions are less than 2100' ceiling and 3 miles prevailing visibility.

TAKE-OFF RUNWAY 15: Turn right heading 210° as soon as practicable after take-off. Expect vector to VNY VOR/DME, then via (transition) or (assigned route).

TAKE-OFF RUNWAY 26: Turn right heading 290° as soon as practicable after take-off for vector to VNY VOR/DME, then via (transition) or (assigned route).

TAKE-OFF RUNWAY 33: Turn left heading 270° as soon as practicable after take-off for vector to VNY VOR/DME, then via (transition) or (assigned route).

AVENAL TRANSITION (VNY7.AVE)

DAGGETT TRANSITION (VNY7.DAG)

FILLMORE TRANSITION (VNY7.FIM)

GORMAN TRANSITION (VNY7.GMN)

PALMDALE TRANSITION (VNY7.PMD)

VOR/DME VNY	APP CRS	Rwy Idg	5802
113.1	089°	TDZE	727
Chan 78		Apt Elev	778

⚠

Circling not authorized northeast of Rwy 15 and 26.

⚠

Inoperative table does not apply.

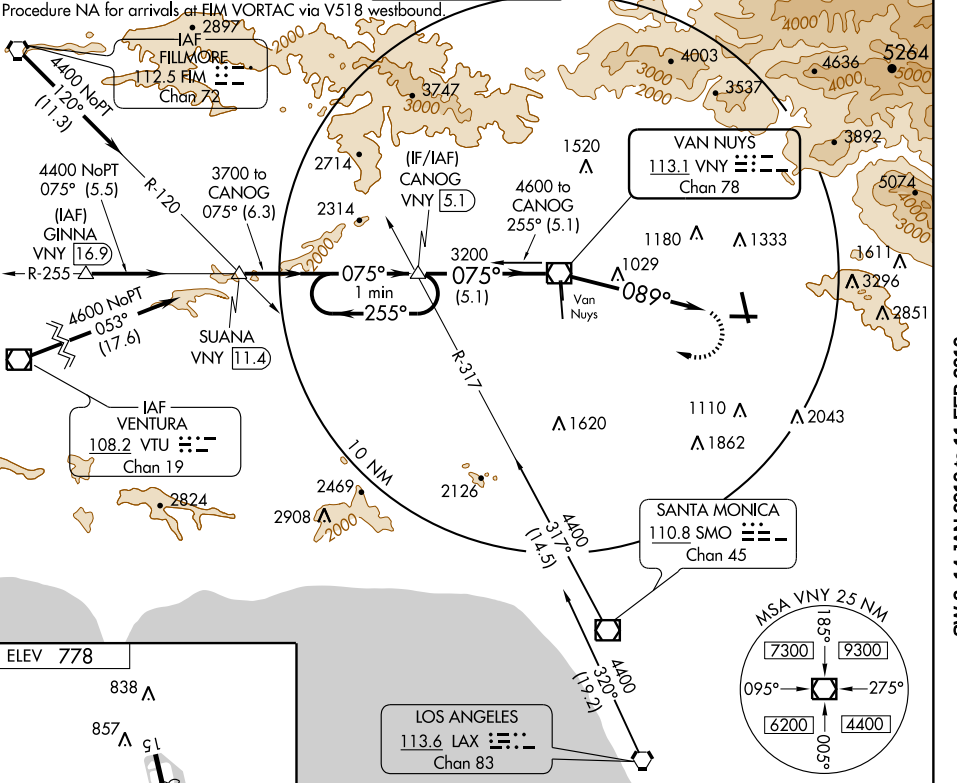
⚠

Visibility reduction by helicopters not authorized.

MALS R

MISSED APPROACH: Climbing right turn to 3700 direct VNY VOR/DME, then via VNY VOR/DME R-255 to CANOG INT/VNY 5.1 DME and hold.

ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL
134.5	134.2 338.2	118.7 254.3	123.9 348.6	118.0 348.6



ELEV 778

MIRL Rwy 15-33

HIRL Rwy 8-26

REIL Rwy 15, 26 and 33

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

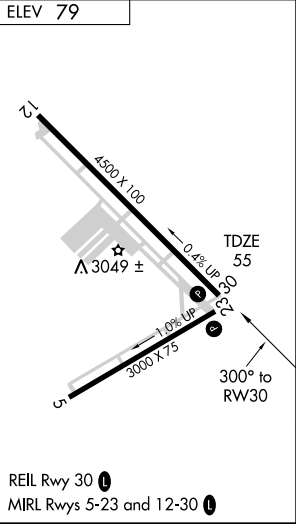
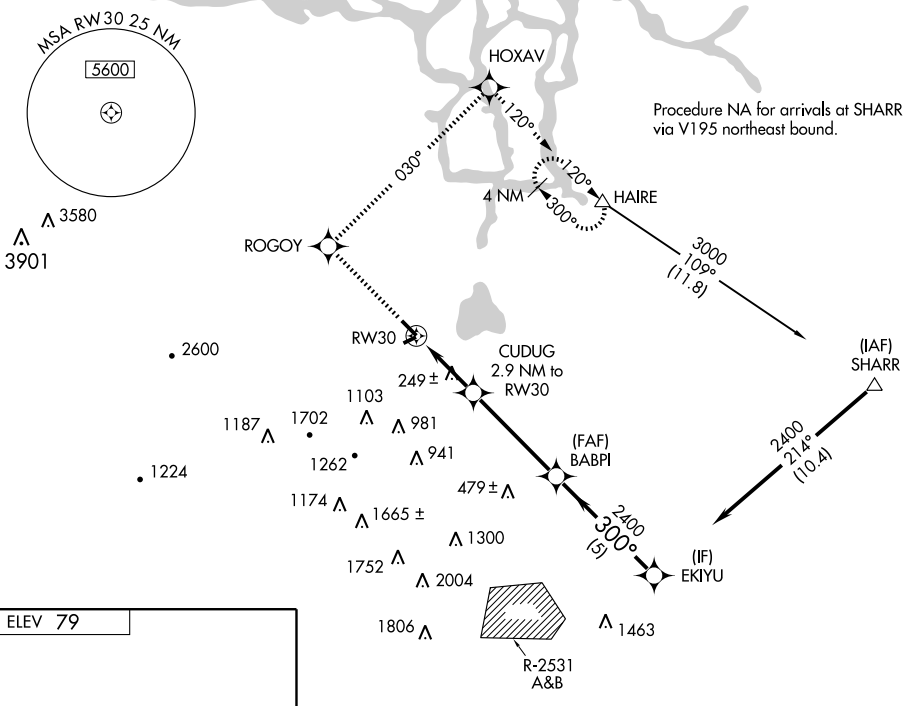
One Minute Holding Pattern		CANOG INT VNY 5.1	3700 VNY 113.1	VNY R-255 113.1	CANOG
VGSI and descent angles not coincident		VOR/DME			
CATEGORY	A	B	C	D	
S-8	1340/50	613 (600-1)	1340-1 3/4 613 (600-1 3/4)	1660-3 933 (900-3)	
CIRCLING	1340-1	562 (600-1)	1340-1 3/4 562 (600-1 3/4)	1660-3 882 (900-3)	

SW-3: 14 JAN 2010 to 11 FEB 2010

T Circling to Rwy 5, 12 NA at night. Circling NA SW of Rwy 12-30.
A NA If local altimeter setting not received, use Stockton Metropolitan
altimeter setting and increase all DA/MDAs 60 feet.
W DME/DME RNP-0.3 NA.
VDP NA when using Stockton Metropolitan altimeter setting.

MISSED APPROACH: Climb to 3000 direct ROGOY
and right turn via 030° track to HOXAV and right turn
via 120° track to HAIRE and hold, continue
climb-in-hold to 3000.

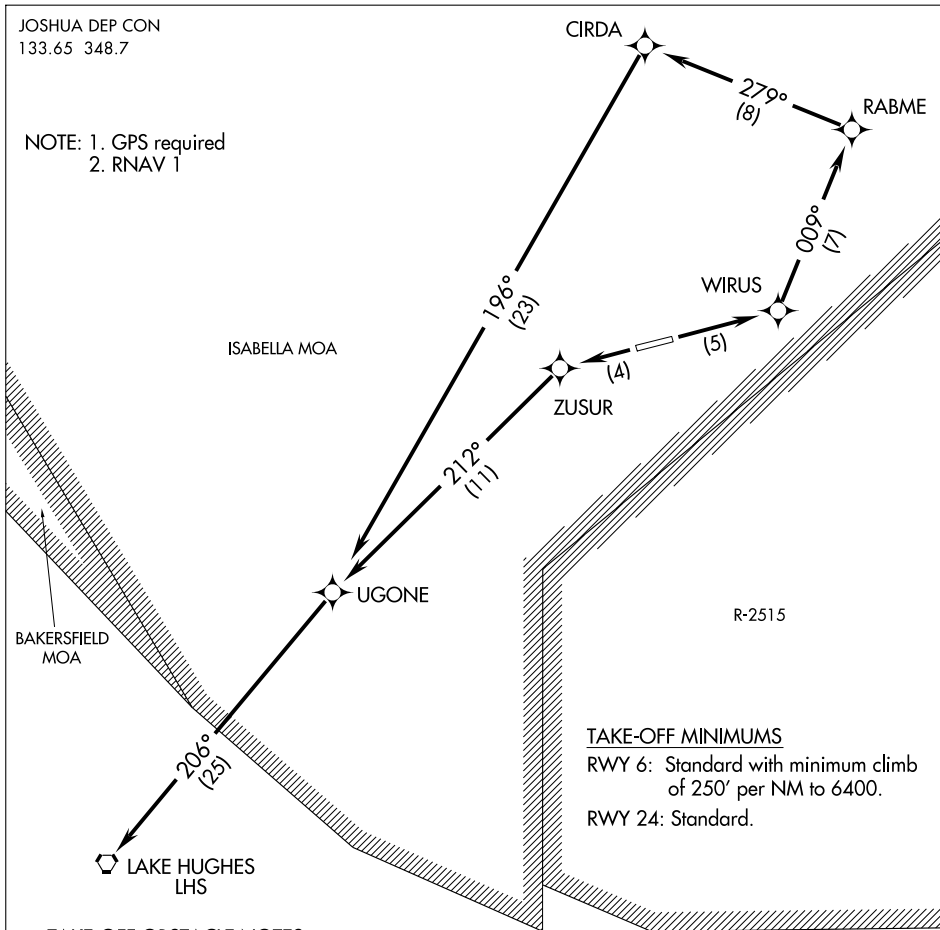
AWOS-3 123.775	NORCAL APP CON 123.85 278.3	UNICOM 123.05 (CTAF) 1
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3000	ROGOY	HOXAV	HAIRE	VGSI and RNAV glidepath not coincident.
↑	✧	↶ 030° track	↶ 120° track	△
*LNAV only	CUDUG 2.9 NM to RW30	BABPI	EKIYU	Procedure Turn NA
	*1.1 NM to RW30		300°	2400
	1.1 NM	1.8 NM	4.2 NM	5 NM
		1000*		GS 3.00° TCH 40
CATEGORY	A	B	C	D
LPV DA	305-1	250 (300-1)	NA	NA
LNAV MDA	500-1	445 (500-1)	NA	NA
CIRCLING	520-1 441 (500-1)	540-1 461 (500-1)	NA	NA

JOSHUA DEP CON
133.65 348.7

NOTE: 1. GPS required
2. RNAV 1



TAKE-OFF OBSTACLE NOTES

- Rwy 6: Ground 37' from departure end of runway, 408' right of centerline, 0' AGL/2406' MSL.
Rwy 24: Windsock 8' from departure end of runway, 159' right of centerline, 25' AGL/2476' MSL.
Bush 220' from departure end of runway 456' left of centerline, 9' AGL/2467' MSL.
Bush 550' from departure end of runway, 447' left of centerline, 16' AGL/2474' MSL.
Bush 365' from departure end of runway, 299' left of centerline, 8' AGL/2469' MSL.
Bush 245' from departure end of runway, 449' left of centerline, 8' AGL/2466' MSL.
Bush 422' from departure end of runway, 454' left of centerline, 12' AGL/2470' MSL.
Bush 355' from departure end of runway, 106' left of centerline, 6' AGL/2467' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct WIRUS, then via depicted route to LHS VORTAC. Maintain 9000.

TAKE-OFF RUNWAY 24: Climb direct ZUSUR, then via depicted route to LHS VORTAC. Maintain 9000.

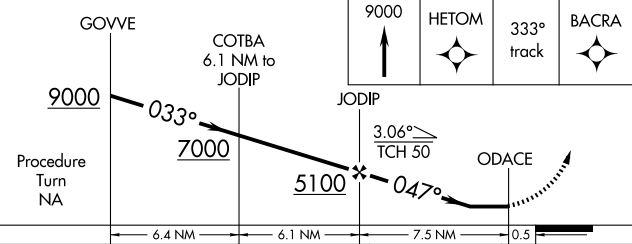
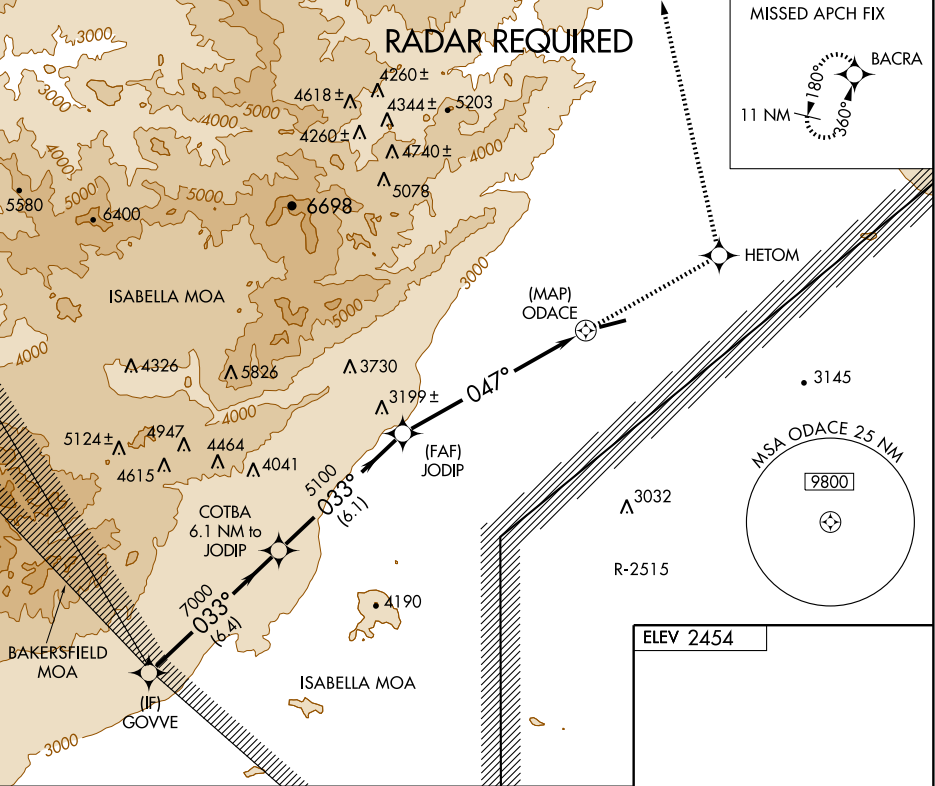
APP CRS	Rwy Idg	6027
047°	TDZE	2454
	Apt Elev	2454

RNAV (GPS) RWY 6
CALIFORNIA CITY MUNI (L71)

NA DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDAs 60 feet; if neither received, procedure not authorized. Procedure not authorized at night.

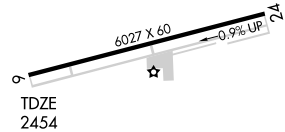
MISSED APPROACH: Climb to 9000 direct HETOM and via 333° track to BACRA and hold, continue climb-in-hold to 9000.

AWOS-1 120.875	JOSHUA APP CON 133.65 348.7	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
LNNAV MDA	3660-1¼ 1206 (1300-1¼)	3660-1½ 1206 (1300-1½)	3660-3 1206 (1300-3)	NA
CIRCLING	3660-1¼ 1206 (1300-1¼)	3660-1½ 1206 (1300-1½)	3660-3 1206 (1300-3)	NA

ELEV 2454



MIRL Rwy 6-24 1

APP CRS	Rwy Idg	6027
227°	TDZE	2429
	Apt Elev	2454

RNAV (GPS) RWY 24

CALIFORNIA CITY MUNI (L71)



DME/DME RNP -0.3 NA.

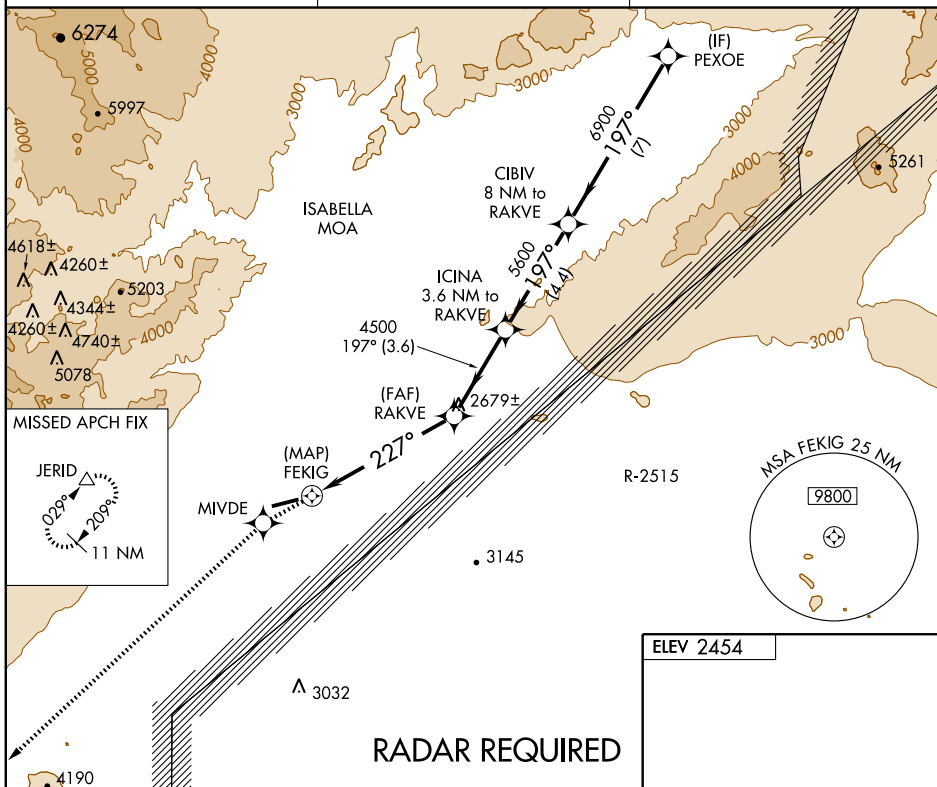


If local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDAs 60 feet; if neither received, procedure not authorized. Procedure not authorized at night.

MISSED APPROACH: Climb to 9000 direct MIVDE and via 213° track to JERID and hold, continue climb-in-hold to 9000.

AWOS-1
120.875

JOSHUA APP CON
133.65 348.7

UNICOM
122.7 (CTAF) **L**

SW-3, 14 JAN 2010 to 11 FEB 2010

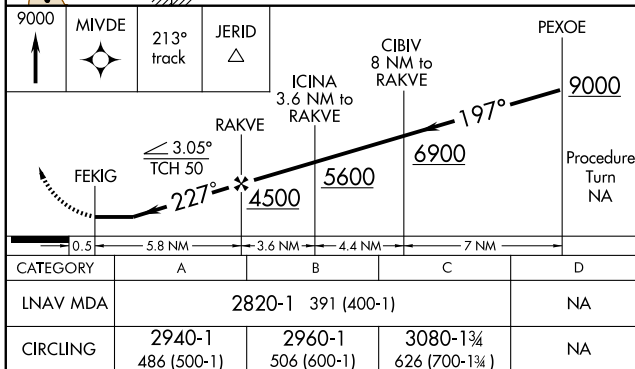


Diagram of a beam with a star support. The beam is labeled "6027 X 60". The slope is indicated as "0.9% UP". The vertical distance from the support to the top of the beam is labeled "TDZE 2429". The beam is shown at an angle, with a vertical dimension line on the right.

MIRL Rwy 6-24 L

APP CRS
078°

Rwy Idg
TDZE
Apt Elev

3303
-182
-182

RNAV (GPS) RWY 8

CALPATRIA/CLIFF HATFIELD MEMORIAL (CLR)

▼

DME/DME RNP-0.3 NA. Procedure NA at night.
Visibility reduction by helicopters NA.

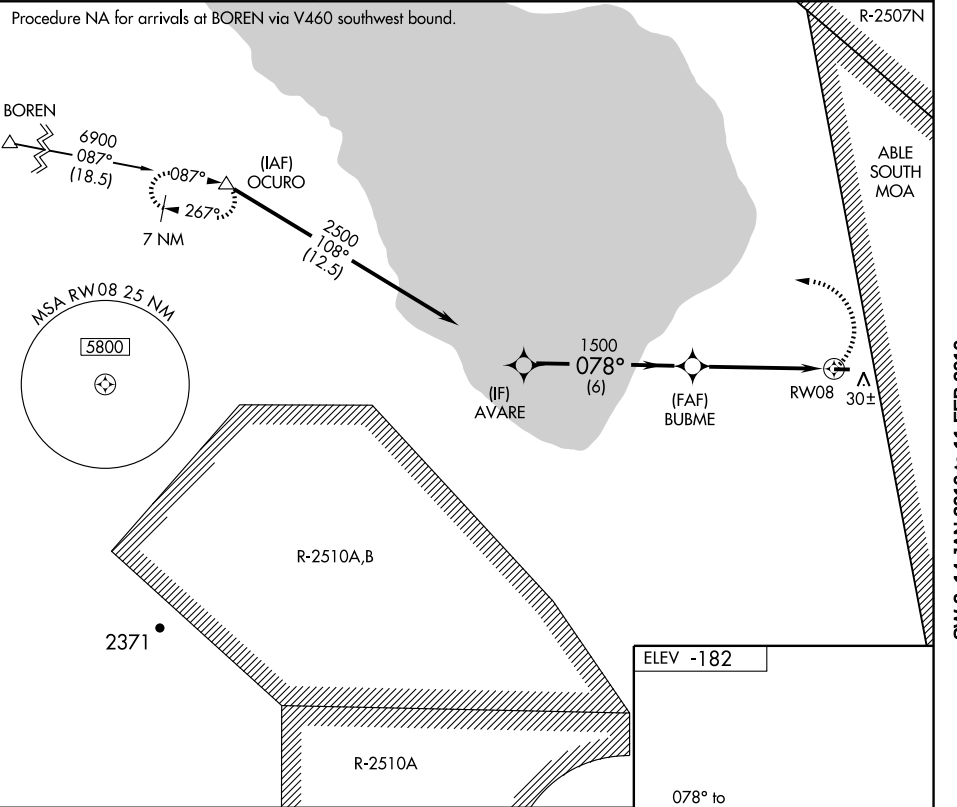
▲

NA

Use Imperial altimeter setting, when not received, procedure NA.

MISSED APPROACH: Climbing left turn to 7300 direct OCURO and hold, continue climb-in-hold to 7300.

IMPERIAL ASOS 132.175	LOS ANGELES CENTER 128.6 291.7	CTAF 122.9
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AVARE

2500

Procedure Turn NA

BUBME

1500

3.04° TCH 40

RWY 08

7300

OCURO

ELEV -182

078° to RWY 08

3423 X 50

TDZE -182

-131±

1±

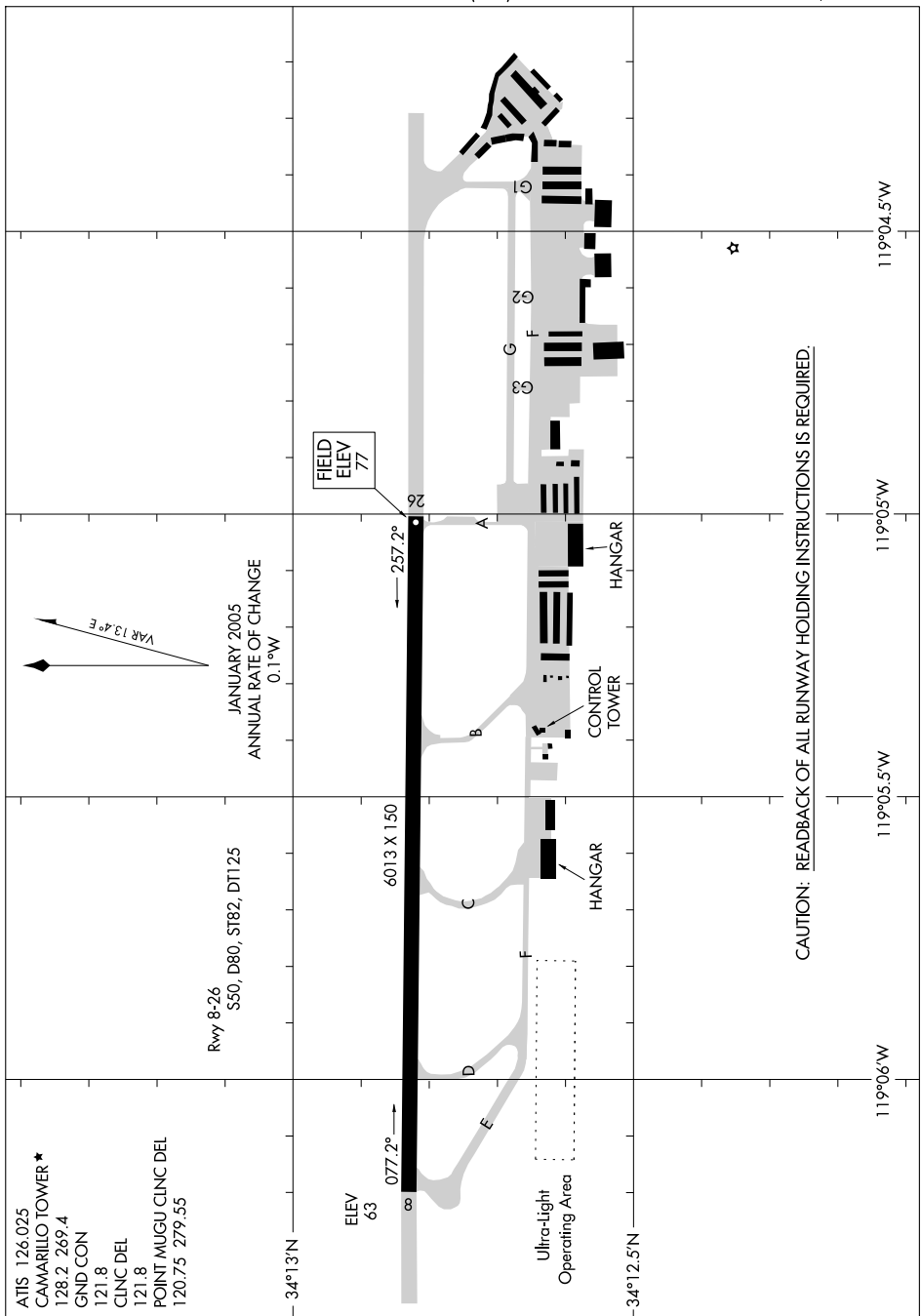
CATEGORY	A	B	C	D
LNAV MDA	300-1	482 (500-1)	300-1¼ 482 (500-1¼)	NA
CIRCLING	440-1	622 (700-1)	440-1¼ 622 (700-1¼)	NA

SW-3, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-680 (FAA)

CAMARILLO (CMA)
CAMARILLO, CALIFORNIA



▼

▲

Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.
 If local altimeter setting not received, use Oxnard altimeter setting and increase all MDAs 20 feet.
 VDP NA when using Oxnard altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 direct HATLI and hold.

ATIS 126.025	POINT MUGU APP CON ★ 124.7 335.5	CAMARILLO TOWER ★ 128.2(CTAF) 0 269.4	GND CON 121.8	CLNC DEL 121.8	POINT MUGU CLNC DEL 120.75 279.55
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CATEGORY	A	B	C	D
LNAV MDA	600-1 532 (600-1)	600-1½ 532 (600-1½)	600-1¾ 532 (600-1¾)	600-2 532 (600-2)
CIRCLING	600-1 523 (600-1)	600-1½ 523 (600-1½)	600-2 563 (600-2)	600-2 563 (600-2)

REIL Rws 8 and 26

MIRL Rwy 8-26

SW-3. 14 JAN 2010 to 11 FEB 2010

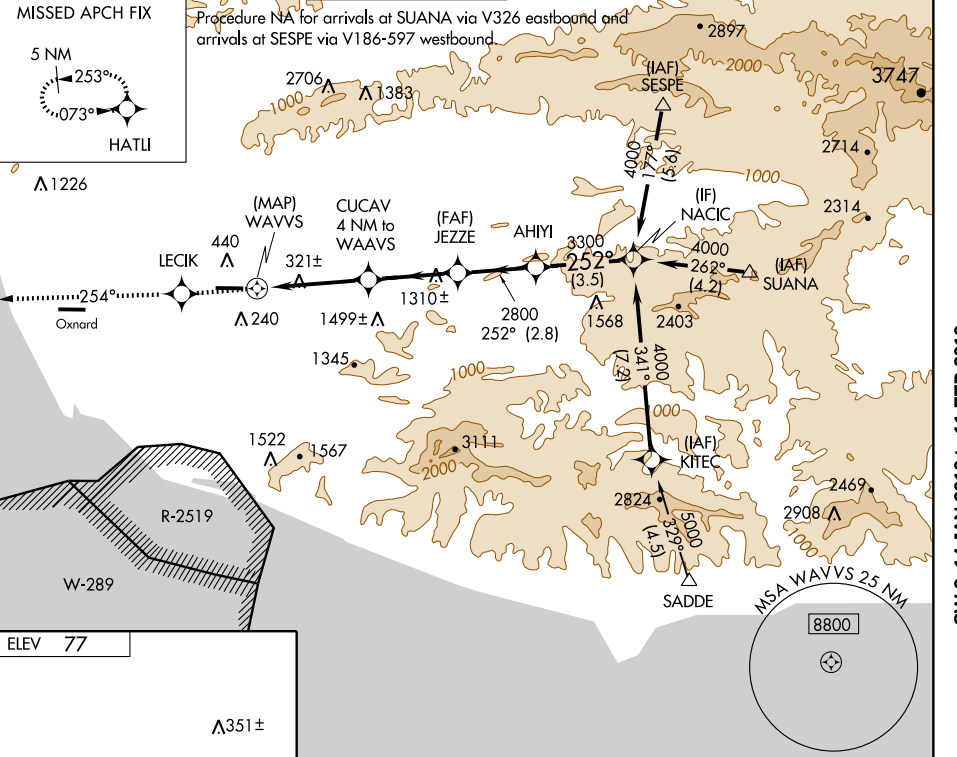
⚠

⚠

Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Oxnard altimeter setting and increase all MDAs 20 feet.
VDP NA when using Oxnard altimeter setting.

MISSED APPROACH: Climb to 3000 direct LECIK and via 254° track to HATLI and hold.

ATIS 126.025	POINT MUGU APP CON 124.7 335.5	CAMARILLO TOWER * 128.2 (CTAF) 0 269.4	GND CON 121.8	CLNC DEL 121.8	POINT MUGU CLNC DEL 120.75 279.55
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	3000	LECIK	254° track	HATLI	VGSI and descent angles not coincident.			
	↑	✧	✧	✧				
	*1720 when using Oxnard altimeter setting				JEZZE	AHIYI	NACIC	
		1.1 NM to WAVVS	CUCAV 4 NM to WAVVS					
		WAVVS	3.30° TCH 48		2800	3300	4000	Procedure Turn NA
		0.5	1.1	2.9 NM	3.2 NM	2.8 NM	3.5 NM	
CATEGORY	A		B		C		D	
LNAV MDA	620-1 543 (600-1)				620-1½ 543 (600-1½)		620-1¾ 543 (600-1¾)	
CIRCLING	620-1 543 (600-1)				620-1½ 543 (600-1½)		640-2 563 (600-2)	

REIL Rwy 8 and 26 0

MIRL Rwy 8-26 0

T

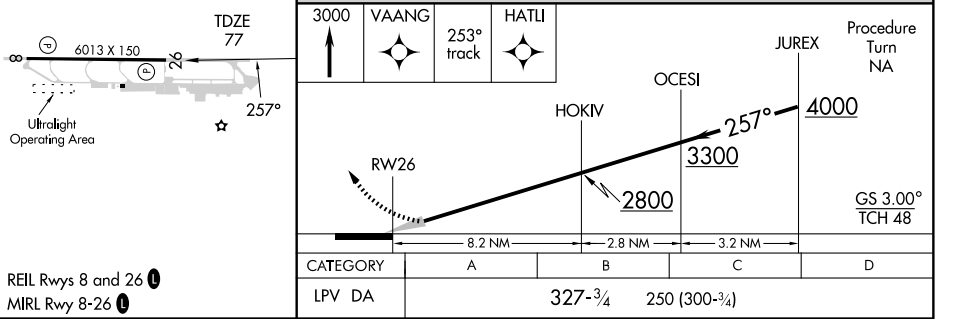
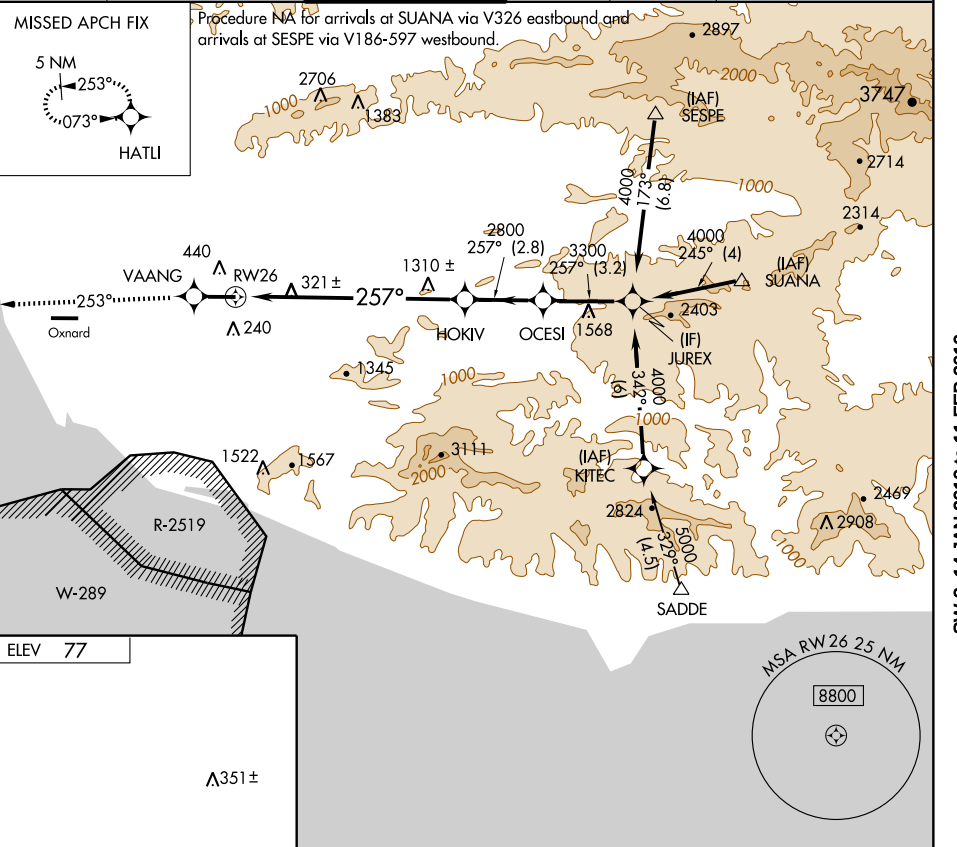
A

W

DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Oxnard altimeter setting and increase DA 18 feet.

MISSED APPROACH: Climb to 3000 direct VAANG and via 253° track to HATLI and hold.

ATIS 126.025	POINT MUGU APP CON ★ 124.7 335.5	CAMARILLO TOWER ★ 128.2(CTAF) 0 269.4	GND CON 121.8	CLNC DEL 121.8	POINT MUGU CLNC DEL 120.75 279.55
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REIL Rwy 8 and 26 1

MIRL Rwy 8-26 1

VOR RWY 26

CAMARILLO (CMA)

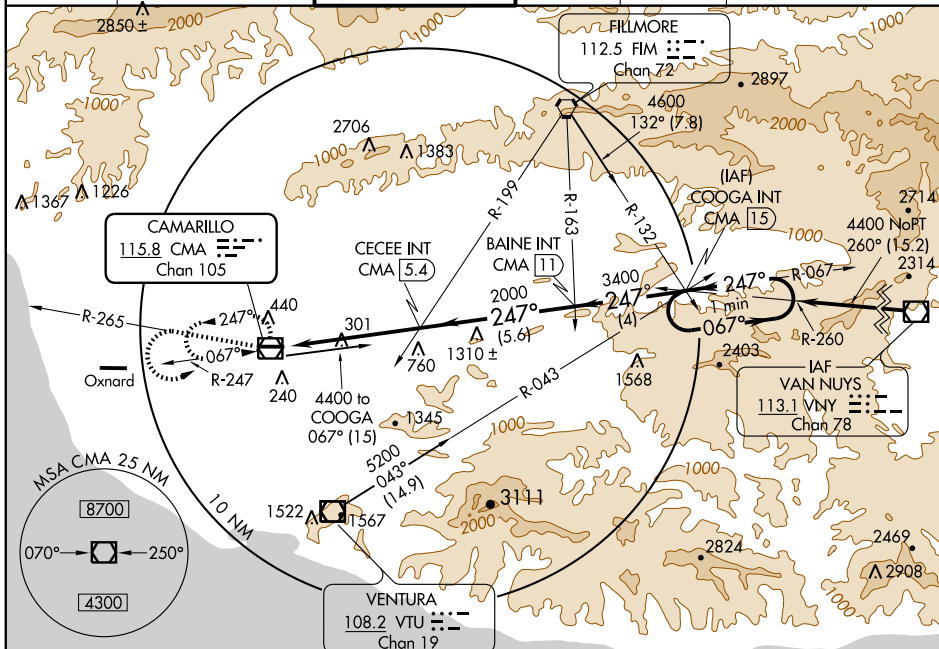
VOR/DME CMA	APP CRS	Rwy Idg	6013
115.8	247°	TDZE	77
Chan 105		Apt Elev	77

▼ Circling not authorized north of Rwy 8/26.

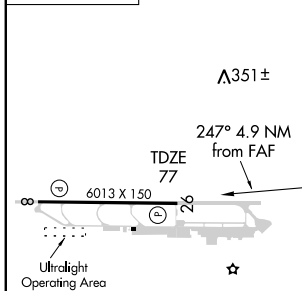


MISSED APPROACH: Climb to 2000 via CMA R-265 then climbing left turn to 4400 direct CMA VOR/DME and hold.

ATIS	POINT MUGU APP CON*	CAMARILLO TOWER *	GND CON	CLNC DEL	POINT MUGU CLNC DEL
126.025	124.7 335.5	128.2 (CTAF) 0 269.4	121.8	121.8	120.75 279.55



ELEV 77



MIRL Rwy 8-26
REIL Rws 8 and 26

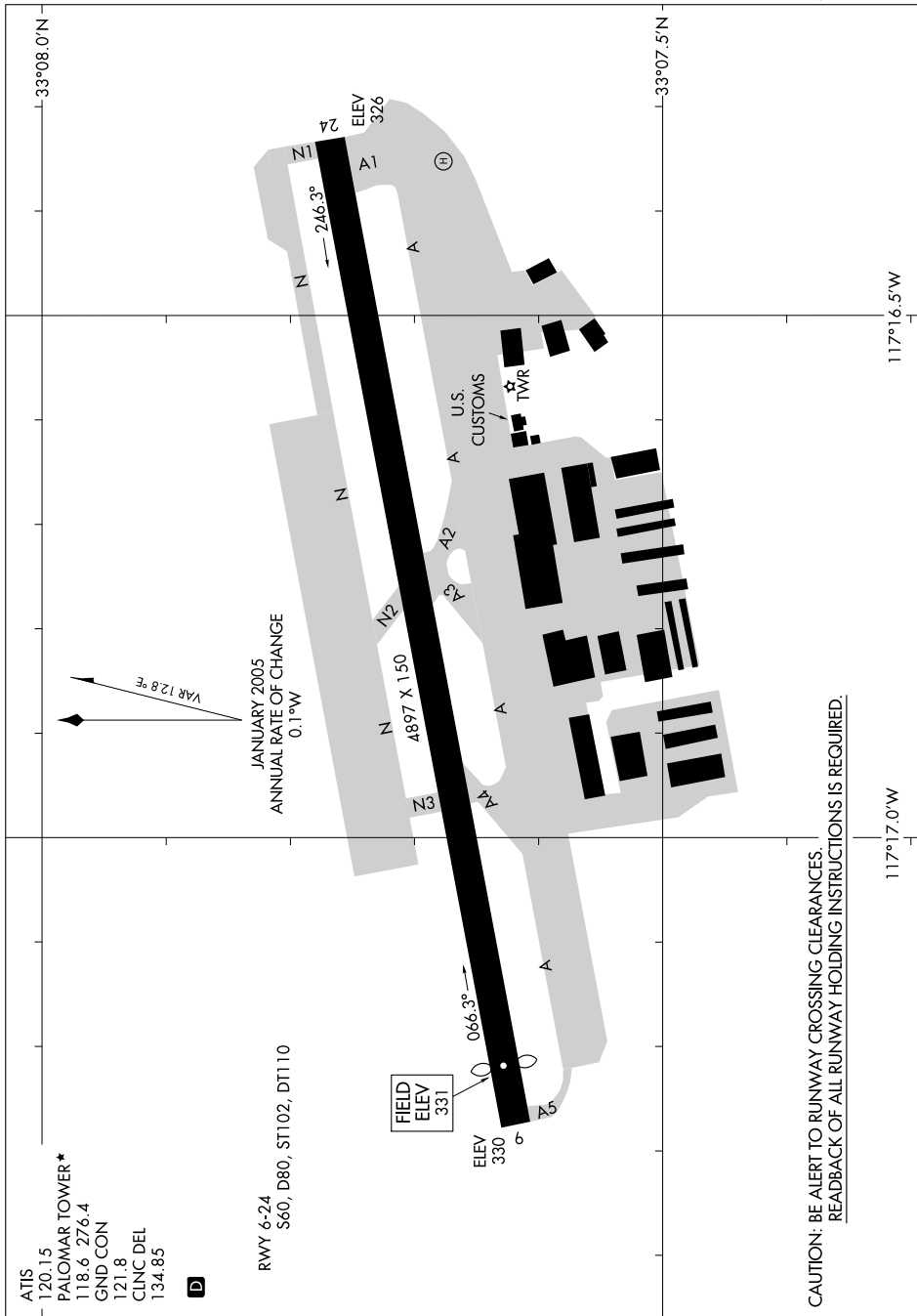
FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

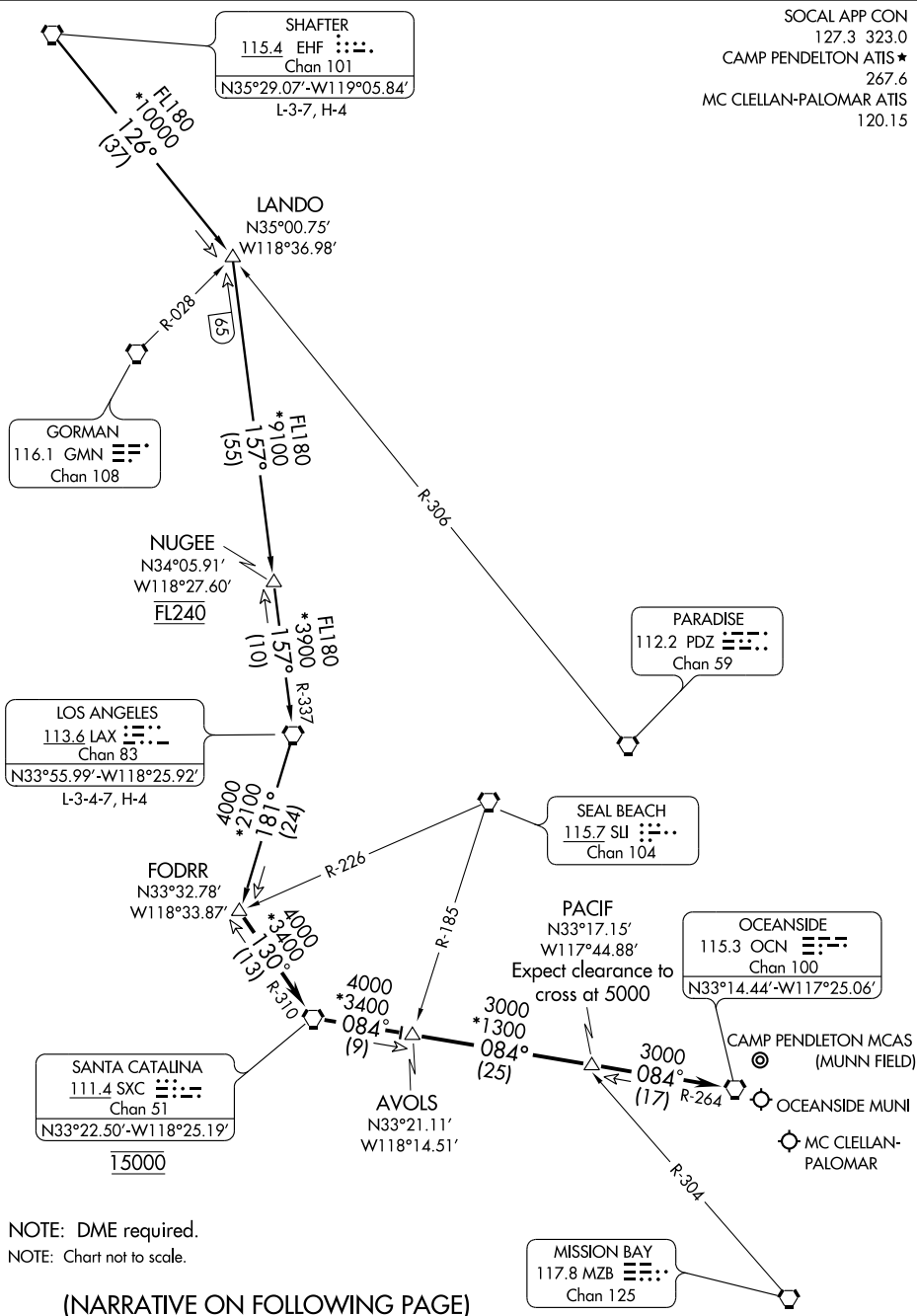
2000 4400 CMA 115.8				
CECEE INT CMA 5.4 BAINTE INT CMA 11 COOGA INT CMA 15 One Minute Holding Pattern				
067° 247° 3400 2000 4400 4.9 NM 5.6 NM 4 NM				
3.61° TCH 48 VGSI and descent angles not coincident.				
CATEGORY	A	B	C	D
S-26	1100-1¼ 1023 (1100-1¼)	1100-1½ 1023 (1100-1½)	1100-3 1023 (1100-3)	NA
CIRCLING	1100-1¼ 1023 (1100-1¼)	1100-1½ 1023 (1100-1½)	1100-3 1023 (1100-3)	NA

AIRPORT DIAGRAM

AL-5310 (FAA)

CARLSBAD/MC CLELLAN-PALOMAR (CRQ)
CARLSBAD, CALIFORNIA





ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.FODRR1): From over LAX VORTAC via LAX R-181 to FODRR INT/DME FIX. Thence....

SHAFTER TRANSITION (EHF.FODRR1): From over EHF VORTAC via EHF R-126 and LAX R-337 to LAX VORTAC, then via LAX R-181 to FODRR INT/DME FIX. Thence....

....From over FODRR INT/DME FIX via SXC R-310 to SXC VORTAC, cross SXC VORTAC at 15000, then via SXC R-084 to AVOLS INT/DME FIX, then via SXC R-084 and OCN R-264 to PACIF INT/DME FIX, then via OCN R-264 to OCN VORTAC. Thence....

....LANDING CARLSBAD/MC CLELLAN-PALOMAR: From over OCN VORTAC expect the ILS or LOC RWY 24 approach.

....LANDING CAMP PENDLETON MCAS (MUNN FIELD): From over OCN VORTAC expect the VOR/DME or TACAN RWY 21 approach.

....LANDING OCEANSIDE MUNI: From over OCN VORTAC expect the VOR-A approach.

⚠

Inoperative table does not apply to S-ILS 24.
For inoperative MALSR increase S-ILS 24 Cat C visibility to RVR 5000. Increase S-LOC 24 Cat A/B visibility to RVR 5000.

MALSR

MISSED APPROACH: Climb to 3000 via heading 245° and OCN R-145 to OCN VORTAC.

ATIS	SOCAL APP CON	PALOMAR TOWER★	GND CON	CLNC DEL
120.15	127.3 323.0	118.6 (CTAF) 0 276.4	121.8	134.85

ELEV 331

D

TDZE 326

4897 X 150

TWR

245° 5 NM from FAF

REIL Rwy 24

HIRL Rwy 6-24

FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

3000

245°

OCN R-145 115.3

OCN 115.3

DEASY OM

ESCON INT JLI 25.2

Procedure Turn NA

GS 3.20° TCH 54

2300*

2300

3500

5 NM

4.5 NM

CATEGORY	A	B	C	D
S-ILS 24	526/40 200 (200-¾)		576/40 250 (300-¾)	NA
S-LOC 24	1000/40 674 (700-¾)		1000-1½ 674 (700-1½)	NA
CIRCLING	1000-1 669 (700-1)		1080-2¼ 749 (800-2¼)	NA

SW-3. 14 JAN 2010 to 11 FEB 2010

WAAS CH 65603 W24A	APP CRS 245°	Rwy Idg 4897 TDZE 326 Apt Elev 331
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RNAV (GPS) RWY 24

CARLSBAD/MC CLELLAN-PALOMAR (CRQ)

T DME/DME RNP-0.3 NA.

A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).

MALSR

MISSED APPROACH: Climb to 2000 direct
IBUGE WP and hold.

ATIS
120.15

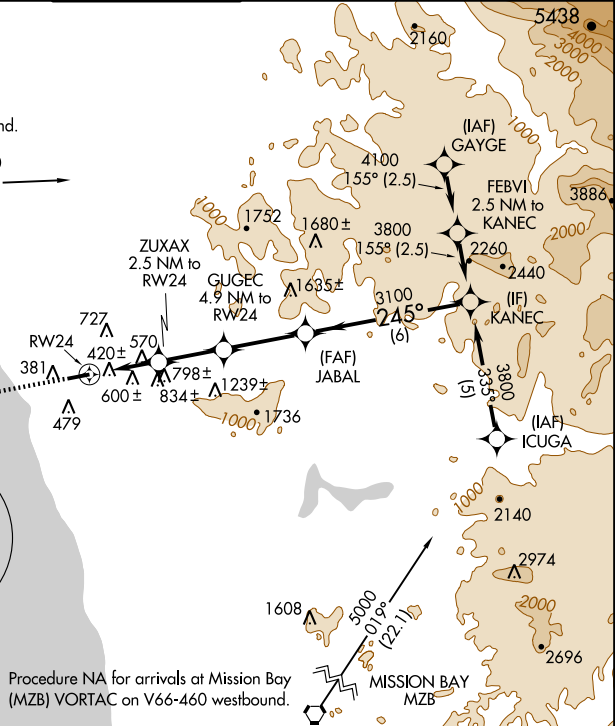
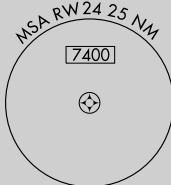
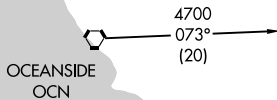
SOCAL APP CON
127.3 323.0

PALOMAR TOWER★
118.6 (CTAF) **L** 276.

GND CON
121.8

CLNC DEL
134.85

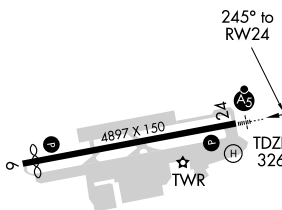
Procedure NA for arrivals at Oceanside
(OCN) VORTAC on V208-458 westbound.



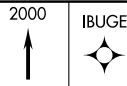
SW-3. 14 JAN 2010 to 11 FEB 2010

ELEV 331

D



Procedure NA for arrivals at Mission Bay (MVB) VORTAC on V66-460 westbound.



* LNAV only



GUGEC
4.9 NM to
PW/24

JABAL

KANEC

Procedure
Turn
NA

GS 3.20°
TCH 52

		2.5 NM		2.4 NM		3 NM		6 NM			
CATEGORY		A		B		C		D			
LPV	DA	737/40		411 (500-¾)				NA			
LNAV/ VNAV	DA	1387-2		1061 (1100-2)		1387-3 1061 (1100-3)		NA			
LNAV	MDA	1100/40		774 (800-¾)		1100-1¾ 774 (800-1¾)		NA			
CIRCLING		1100-1 769 (800-1)		1100-1¼ 769 (800-1¼)		1100-2¼ 769 (800-2¼)		NA			

VORTAC OCN 115.3 Chan 100	APP CRS 120°	Rwy Idg TDZE Apt Elev	N/A N/A 331
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VOR-A
CARLSBAD/MC CLELLAN-PALOMAR (CRQ)



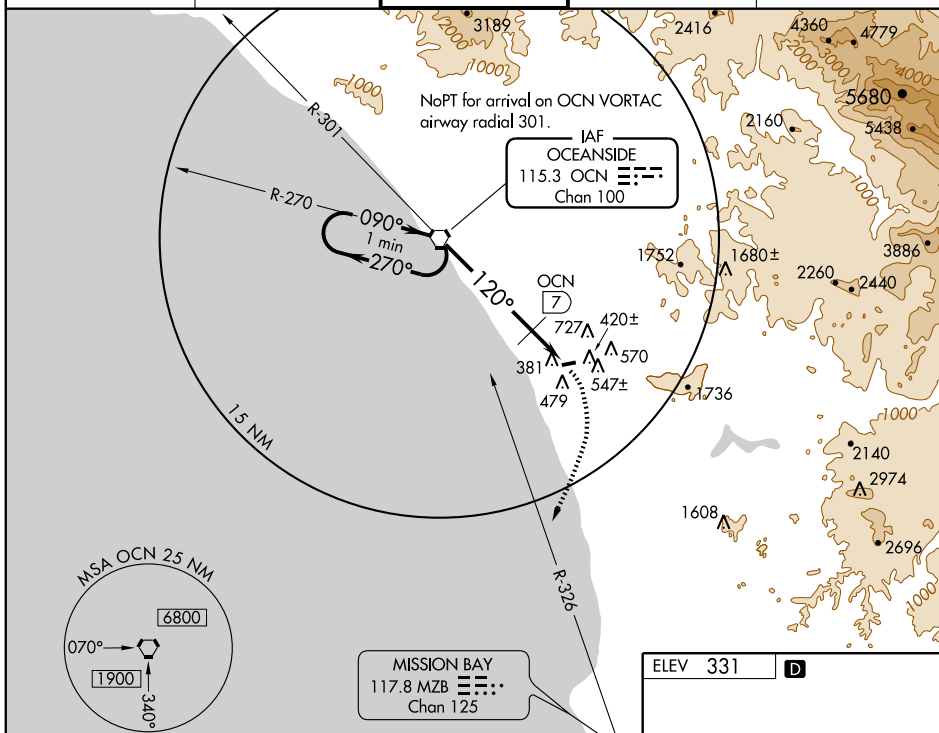
MISSED APPROACH: Climbing right turn to 3000 via heading 180° and MZB R-326 to MZB VORTAC.

ATIS
120.15

SOCAL APP CON
127.3 323.0

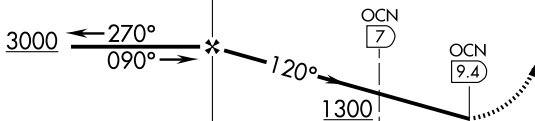
PALOMAR TOWER★
118.6 (CTAF) **L** 276.4

GND CON
121.8

CLNC DEL
134.85

One Minute Holding Pattern

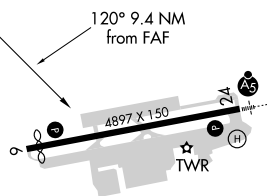
VORTAC



		7 NM		2.4 NM		
CATEGORY	A	B	C	D		
CIRCLING	1300-1¼ 969 (1000-1¼)	1300-1½ 969 (1000-1½)	1300-3 969 (1000-3)	NA		
DME MINIMUMS						
CIRCLING	860-1 529 (600-1)	1000-1 669 (700-1)	1080-2¼ 749 (800-2¼)	NA		

ELEV 331	D
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D



REIL Rwy 24 **L**
HIRL Rwy 6-24

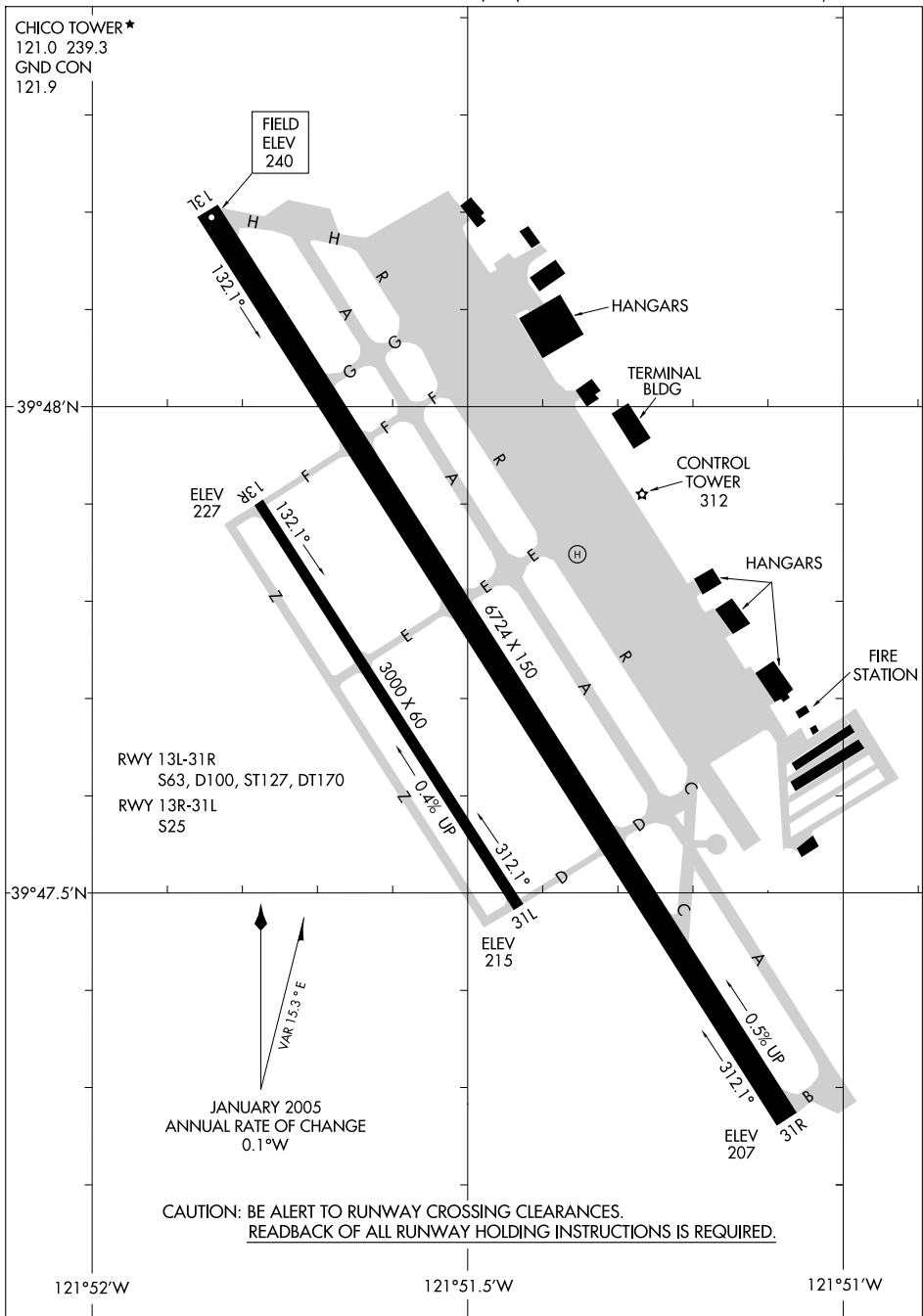
FAF to MAP 9.4 NM

Knots	60	90	120	150	180
Min:Sec	9:24	6:16	4:42	3:46	3:08

AIRPORT DIAGRAM

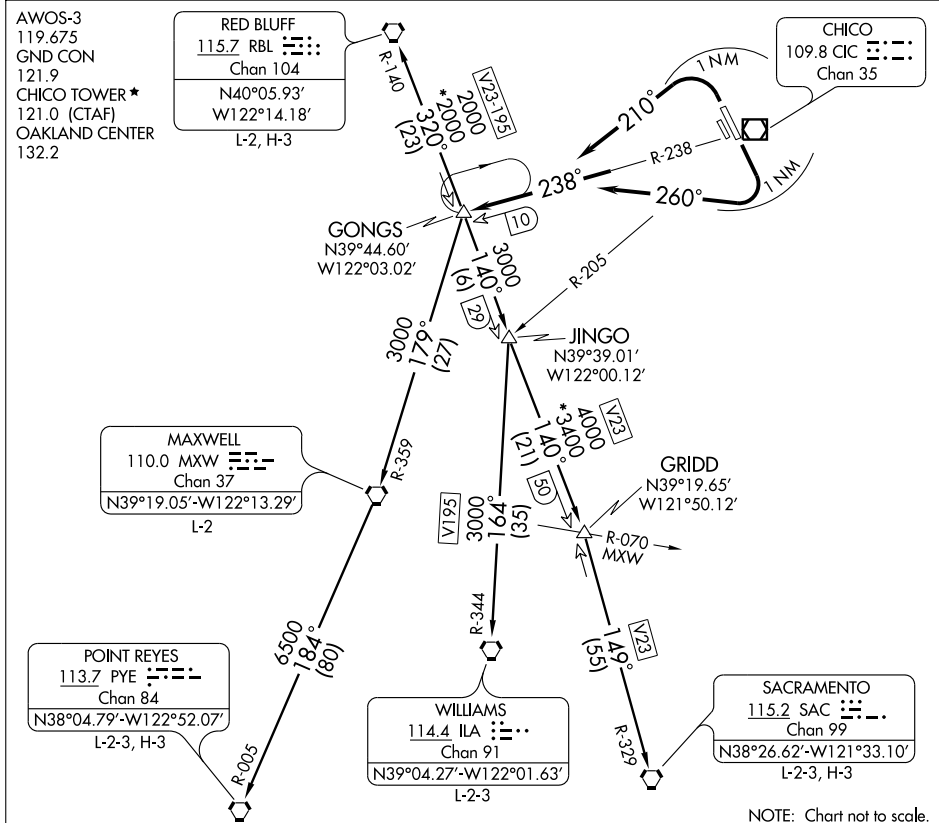
AL-557 (FAA)

CHICO MUNI (CIC)
CHICO, CALIFORNIA



GONGS ONE DEPARTURE

SL-557 (FAA)

CHICO MUNI (CIC)
CHICO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Turn right heading 260° within 1 NM of take-off; intercept CIC R-238 to GONGS INT. Thence....

TAKE-OFF RUNWAYS 31L/R: Turn left heading 210° within 1 NM of take-off; intercept CIC R-238 to GONGS INT. Thence....

....via (transition) or (assigned route).

MAXWELL TRANSITION (GONGS1.MXW): From over GONGS INT via MXW R-359 to MXW VORTAC.

POINT REYES TRANSITION (GONGS1.PYE): From over GONGS INT via MXW R-359 to MXW VORTAC; then via MXW R-184 and PYE R-005 to PYE VORTAC.

RED BLUFF TRANSITION (GONGS1.RBL): From over GONGS INT via RBL R-140 to RBL VORTAC.

SACRAMENTO TRANSITION (GONGS1.SAC): From over GONGS INT via V23 and SAC R-329 to SAC VORTAC.

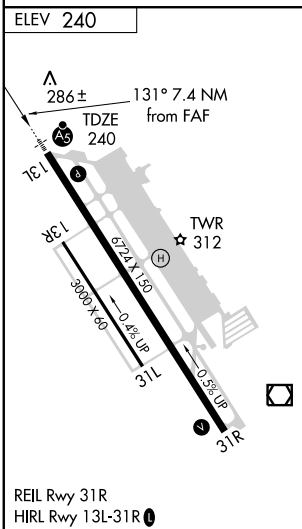
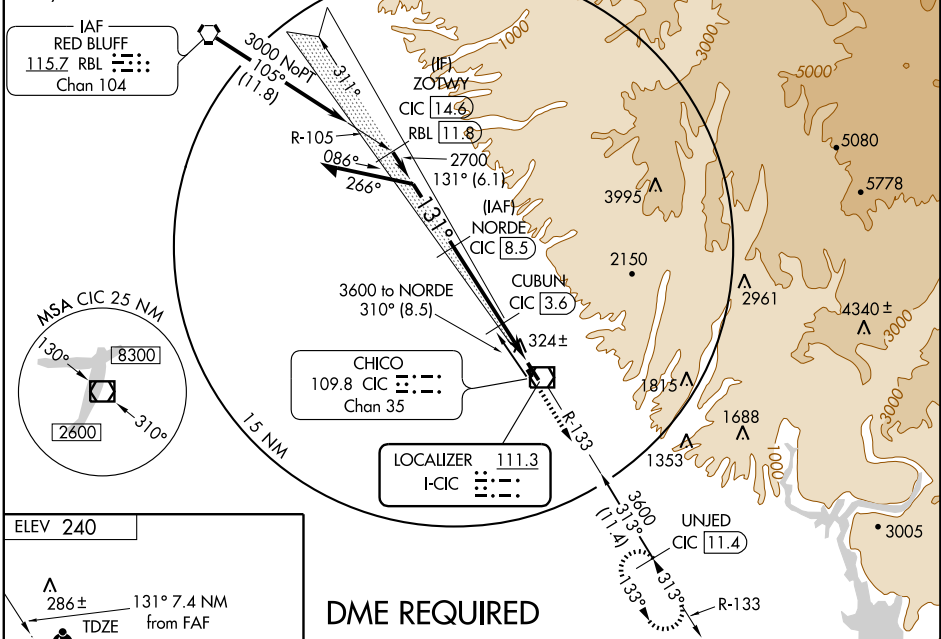
WILLIAMS TRANSITION (GONGS1.ILA): From over GONGS INT via RBL R-140 and V195 to ILA VORTAC.

ILS or LOC/DME RWY 13L
CHICO MUNI (CIC)

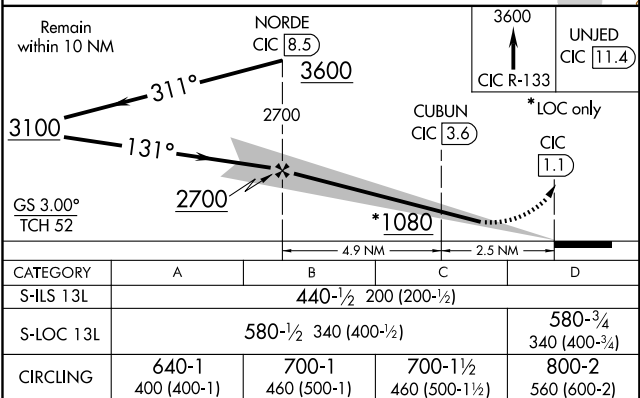
MALSR

MISSED APPROACH: Climb to 3600 via CIC VOR/DME R-133 to UNJED/CIC 11.4 DME and hold, continue climb-in-hold to 3600.

Procedure NA for arrivals on Red Bluff VORTAC
airway radials 122 CW 161.



DME REQUIRED



▼

NA

Inoperative table does not apply to LPV and LNAV Cats A/B/C.
For inoperative MALSRL, increase LNAV Cat D visibility to 1¼.
Circling NA east of Rwy 13L/31R. Baro-VNAV NA when using Red Bluff altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Red Bluff Muni altimeter setting and increase all DA 81 feet, and all MDA 100 feet, increase LNAV/VNAV all Cats visibility ¼ mile. For inoperative MALSRL when using Red Bluff altimeter setting, LNAV Cats A/B inoperative table does not apply, increase Cat C visibility ¼ mile.

MALSRL

MISSED APPROACH: Climb to 3600 direct UNJED and hold, continue climb-in-hold to 3600.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER ★ 121.0 (CTAF) 0 239.3	GND CON 121.9	UNICOM 122.95
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(IAF)
RED BLUFF
RBL

MSA RW13L 25 NM

ELEV 240

ZOTWY

NORDE

Procedure Turn NA

GS 3.00°

TCH 52

CUBUN 2.5 NM to RW13L

RW13L

CATEGORY	A	B	C	D
LPV DA	536-1 296 (300-1)			
LNAV/VNAV DA	648-1 408 (500-1)			
LNAV MDA	600-1 360 (400-1)			
CIRCLING	640-1 400 (500-1)	700-1 460 (500-1)	700-1½ 460 (500-1½)	800-2 560 (600-2)

REIL Rwy 31R

HIRL Rwy 13L-31R

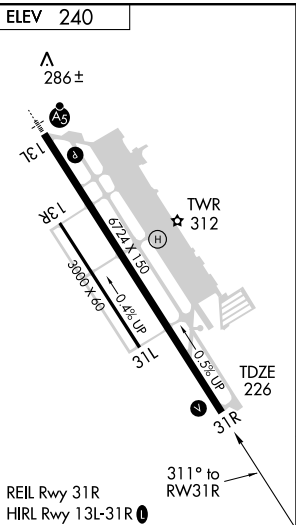
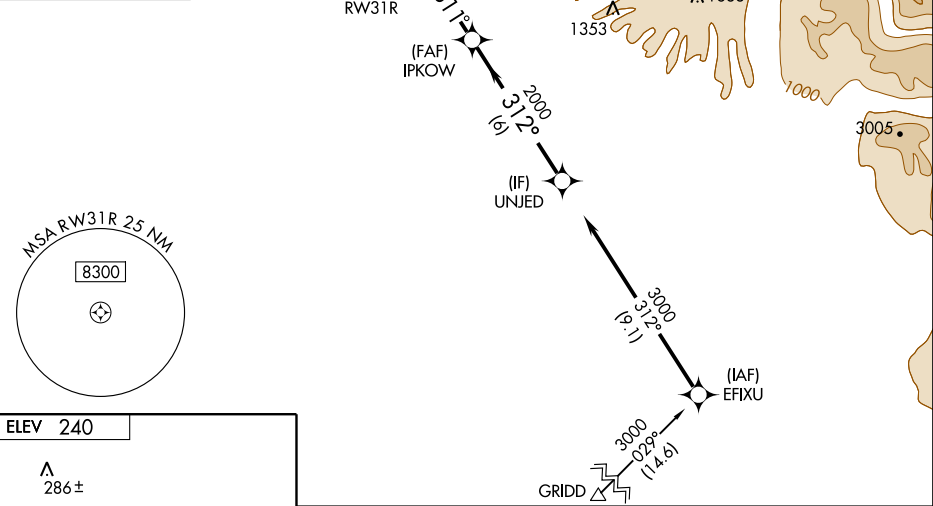
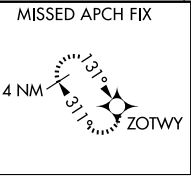
SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 77912 W31A	APP CRS 311°	Rwy Idg TDZE Apt Elev	6724 226 240
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⚠ Circling NA east of Rwy 13L/31R. Baro-VNAV NA when using Red Bluff altimeter setting.
⚠ NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Red Bluff altimeter setting and increase all DA 81 feet and MDA 100 feet and increase LPV visibility all Cats ¼ mile, visibility LNAV/VNAV all Cats ½ mile and visibility LNAV Cats C/D ¼ mile. VDP NA when using Red Bluff altimeter setting.

MISSED APPROACH: Climb to 3000 direct ZOTWY and hold.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER ★ 121.0 (CTAF) 0 239.3	GND CON 121.9	UNICOM 122.95
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	3000	ZOTWY	*LNAV only	STARW 2.5 NM to RW31R	IPKOW	UNJED	
				*1.1 NM to RW31R	2000	3000	Procedure Turn NA
					311°	312°	GS 3.00° TCH 50
					1060*	2000	
					1.1 NM	1.4 NM	2.9 NM
CATEGORY	A	B	C	D			
LPV DA	476-1	250 (300-1)					
LNAV/VNAV DA	733-1¾	507 (500-1¾)					
LNAV MDA	600-1	374 (400-1)			600-1¼ 374 (400-1¼)		
CIRCLING	640-1 400 (400-1)	700-1 460 (500-1)	700-1½ 460 (500-1½)	800-2 560 (600-2)			

VOR/DME CIC	APP CRS	Rwy Idg	6724
109.8	122°	TDZE	238
Chan 35		Apt Elev	238

VOR/DME RWY 13L

CHICO MUNI (CIC)

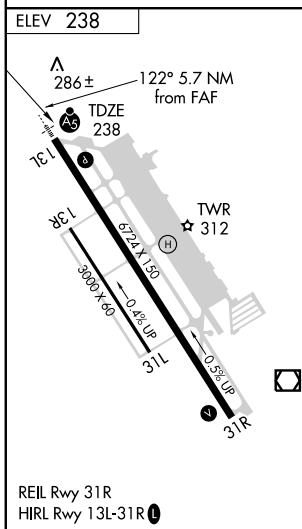
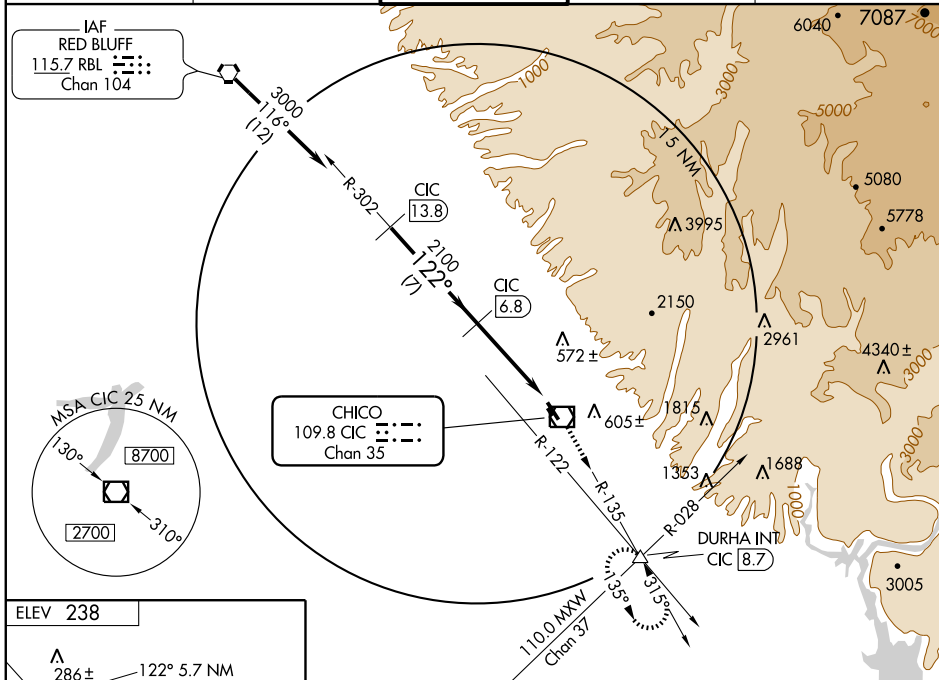
⚠ Circling not authorized east of Rwy 13L-31R.
⚠ When control tower closed, except for operators with approved weather reporting service, use Red Bluff altimeter setting.
 Local altimeter setting minimums: for inoperative MALSR, increase S-13L Cat. D visibility to 1¼.
 VDP NA when using Red Bluff altimeter setting.

MALSR



MISSED APPROACH: Climb to 2500
 via CIC R-135 to DURHA INT/CIC 8.7
 DME and hold.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER★ 121.0 (CTAF) 0 239.3	GND CON 121.9	UNICOM 122.95
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	CIC 13.8	CIC 6.8	CIC 2.2	CIC 1.5	2500 CIC R-135	DURHA △
	3000	2100	2100	2100		
	122°	3.01° TCH 52				
Procedure Turn NA	7 NM	4.6 NM	0.7	0.4		
CATEGORY	A	B	C	D		
S-13L	640-½	402 (500-½)	640-¾ 402 (500-¾)	640-1 402 (500-1)		
CIRCLING	640-1 402 (500-1)	700-1 462 (500-1)	700-1½ 462 (500-1½)	800-2 562 (600-2)		
RED BLUFF ALTIMETER SETTING MINIMUMS						
S-13L	780-½	542 (600-½)	780-1 542 (600-1)	780-1¼ 542 (600-1¼)		
CIRCLING	780-1	542 (600-1)	780-1½ 542 (600-1½)	800-2 562 (600-2)		

VOR/DME CIC 109.8 Chan 35	APP CRS 327°	Rwy Idg TDZE Apt Elev	6724 224 238
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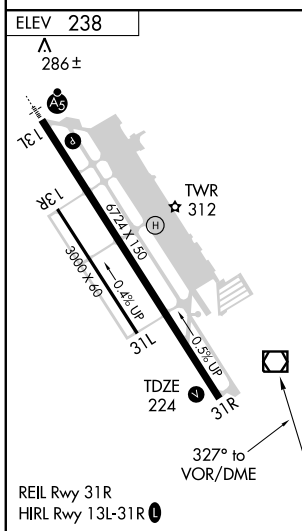
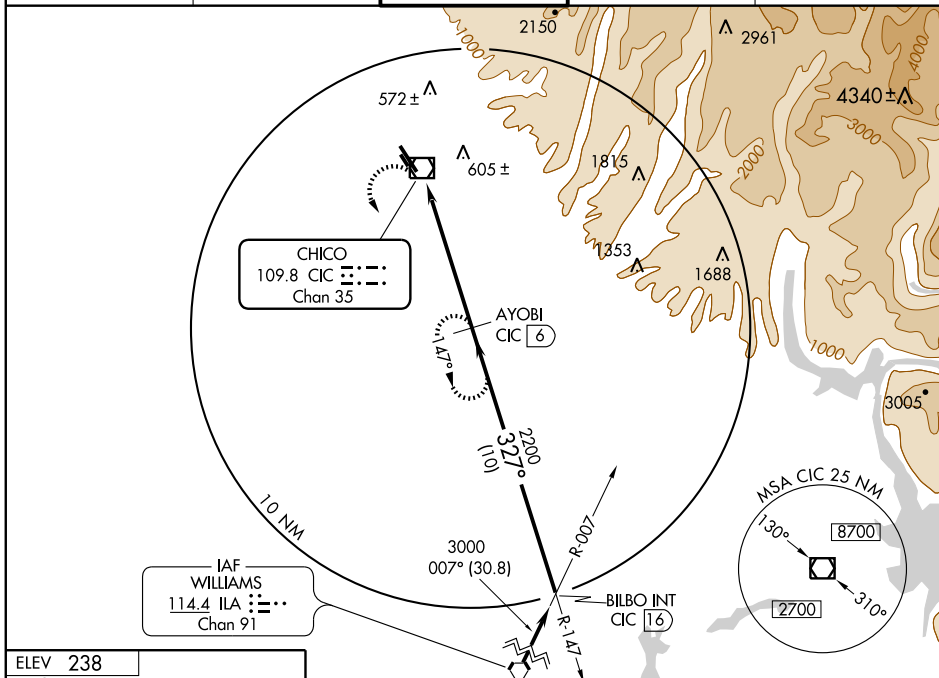
VOR/DME RWY 31R

CHICO MUNI (CIC)

⚠ Circling not authorized east of Rwy 13L-31R.
⚠ When control tower closed, except for operators with approved weather reporting service, use Red Bluff altimeter setting.

MISSED APPROACH: Climbing left turn to 2000 via
CIC R-147 to AYOB1/6 DME and hold.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER ★ 121.0 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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2000



CIC R-147

AYOBI

CIC

6

AYOBI

CIC

6

327°

2200

3000

Procedure Turn NA

VOR/DME

6 NM

10 NM

≤ 3.05°

TCH 50

BILBO INT

CIC

16

CATEGORY	A	B	C	D
S-31R	760-1	536 (600-1)	760-1½ 536 (600-1½)	760-1¾ 536 (600-1¾)
CIRCLING	760-1	522 (600-1)	760-1½ 522 (600-1½)	800-2 562 (600-2)

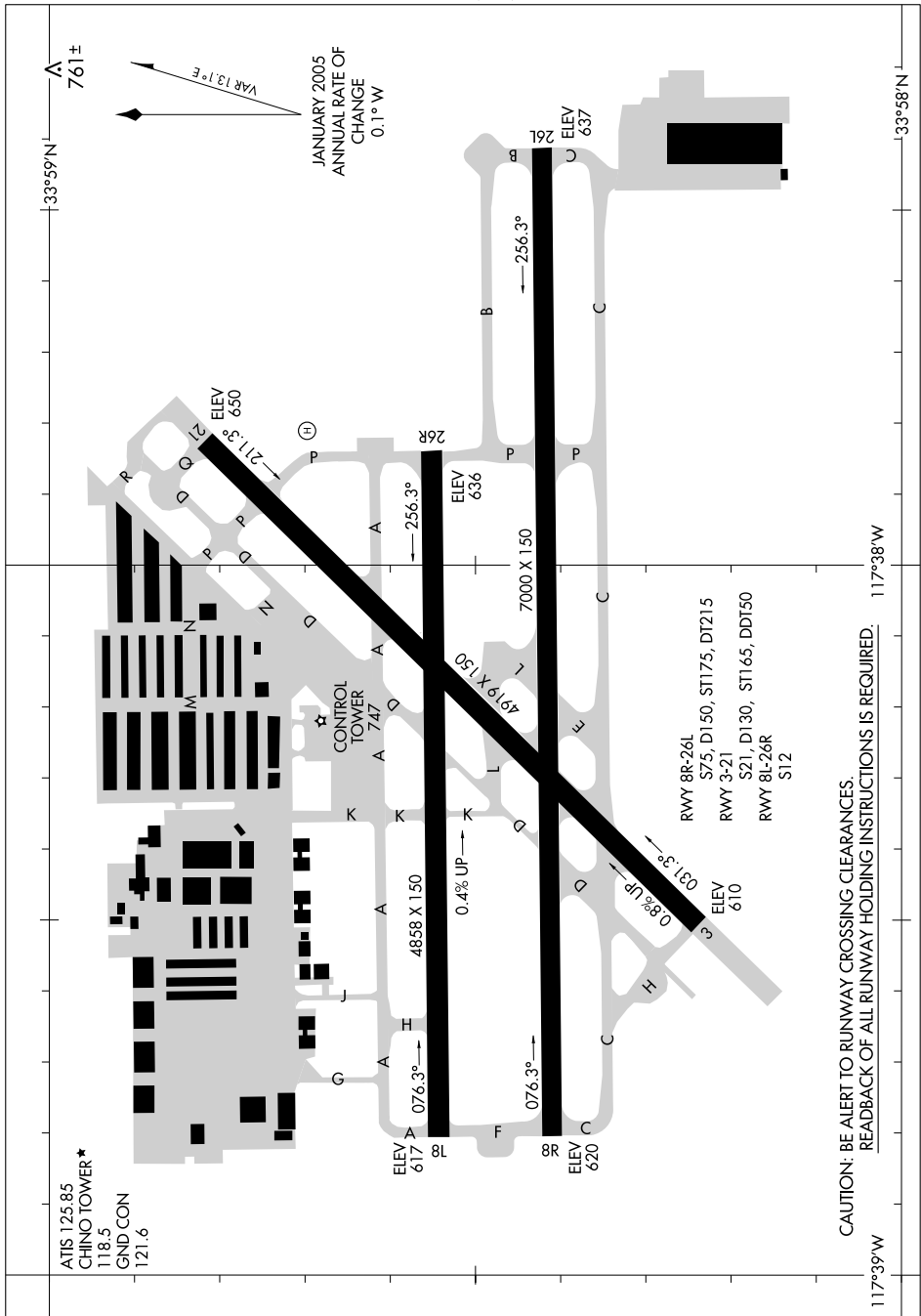
RED BLUFF ALTIMETER SETTING MINIMUMS

S-31R	840-1	616 (700-1)	840-1¾ 616 (700-1¾)	840-2 616 (700-2)
CIRCLING	840-1	602 (700-1)	840-1¾ 602 (700-1¾)	840-2 602 (700-2)

AIRPORT DIAGRAM

AL-5599 (FAA)

CHINO (CNO)
CHINO, CALIFORNIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3, 14 JAN 2010 to 11 FEB 2010

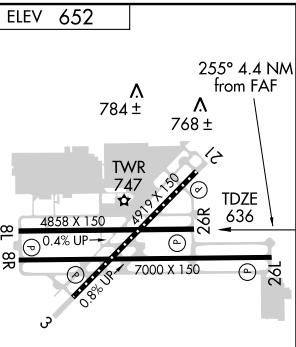
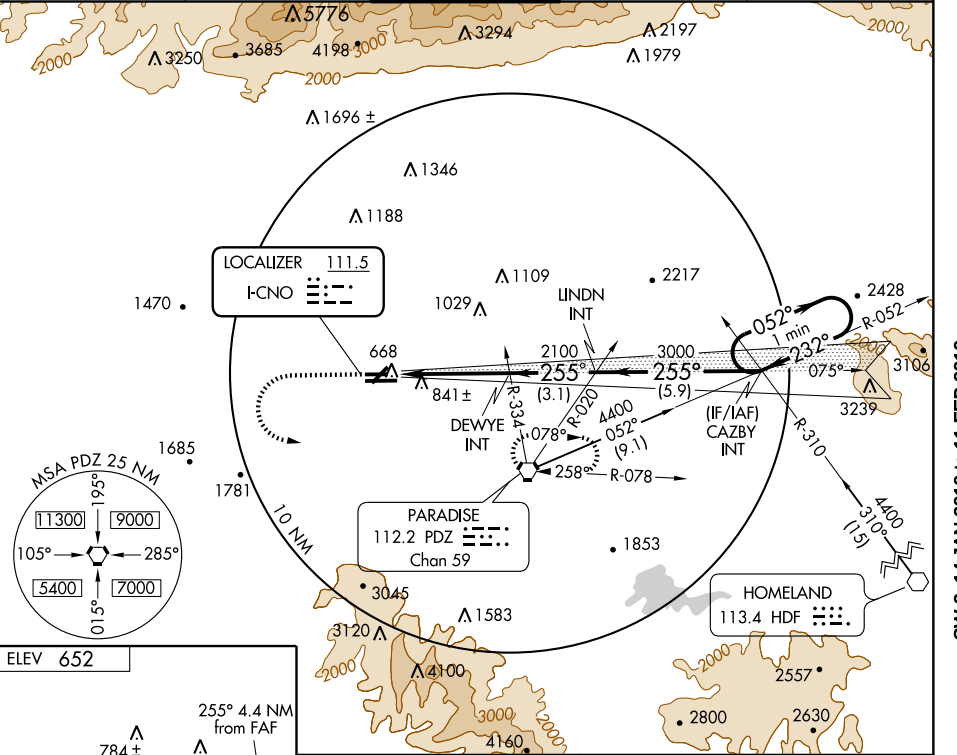
LOC I-CNO	APP CRS	Rwy Idg	4858
111.5	255°	TDZE	636
		Apt Elev	652

▼

▲

MISSED APPROACH: Climb to 1100 then climbing left turn to 4000 direct PDZ VORTAC and hold.

ATIS 125.85	SOCAL APP CON 135.4 377.125	CHINO TOWER ★ 118.5 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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REIL Rwy 3 and 21					
MIRL Rwy 3-21 and 8R-26L					
HIRL Rwy 8L-26R					
FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

1100 ↑	4000 ↘	PDZ ⬡ 112.2				
CATEGORY	A	B	C	D		
S-ILS 26R	886-¾ 250 (300-¾)					
S-LOC 26R	1060-1	424 (500-1)	1060-1¼	424 (500-1¼)		
CIRCLING	1180-1	528 (600-1)	1180-1½ 528 (600-1½)	1220-2 568 (600-2)		

SW-3. 14 JAN 2010 to 11 FEB 2010

WAAS CH 97320 W26A	APP CRS 255°	Rwy Idg 4858 TDZE 636 Apt Elev 652
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RNAV (GPS) RWY 26R
CHINO (CNO)

T For uncompensated Baro-VNAV systems, LNAV/VNAV
W NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.

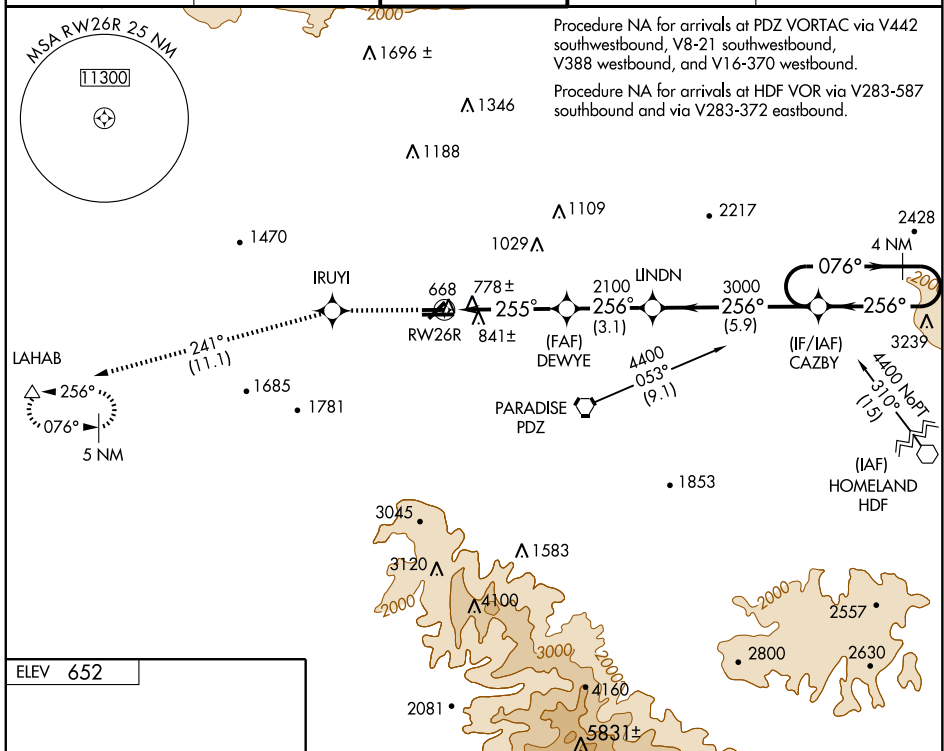
MISSED APPROACH: Climb to 4000 direct IRUYI and via 241° track to LAHAB and hold.

ATIS
125.85

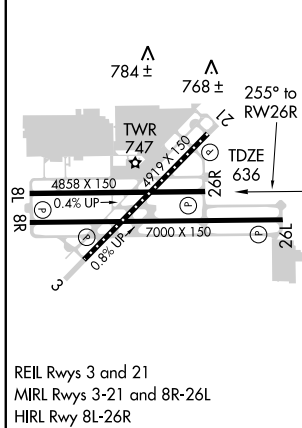
SOCAL APP CON
135.4 377.125

CHINO TOWER★
118.5 (CTAF) L

GND CON
121.6

UNICOM
122.95

ELEV	652
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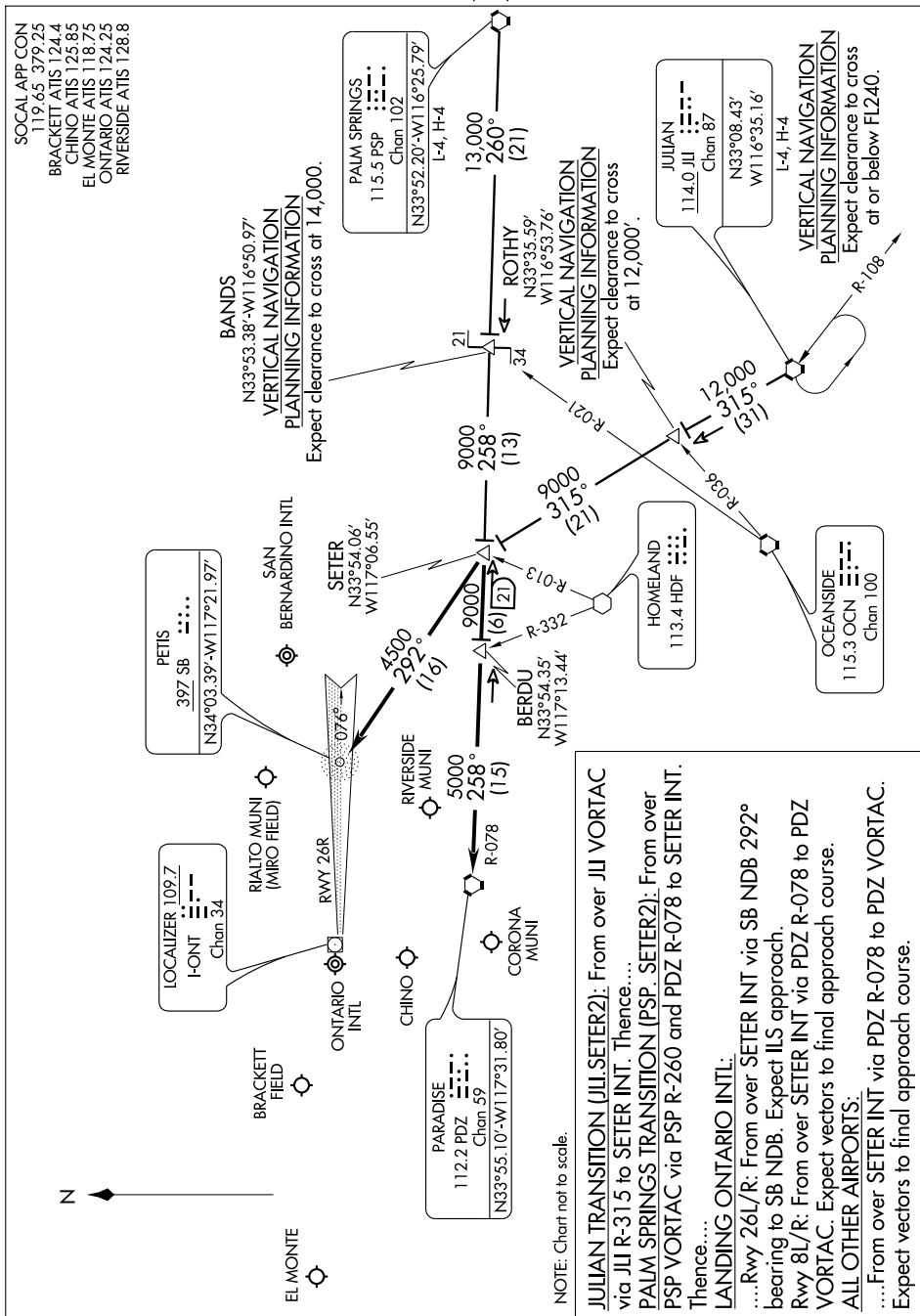


4000 ↑	IRUYI ✦	241° track	LAHAB △	CAZBY 4 NM Holding Pattern LINDN DEWYE 076° → 4400 ← 256° 256° 3000 2100 255° 1.8 2.6 NM 3.1 NM 5.9 NM GS 3.00° TCH 51			
*RNAV only		*1.8 NM to RW26R					
CATEGORY	A		B		C		D
LPV DA			1030-1¼		394 (400-1¼)		
RNAV/ VNAV DA			1117-2		541 (600-2)		
RNAV MDA	1260-1 624 (700-1)		1260-1¼ 624 (700-1¾)		1260-2 624 (700-2)		
CIRCLING	1260-1¾ 608 (700-1¾)					1260-2 608 (700-2)	

SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

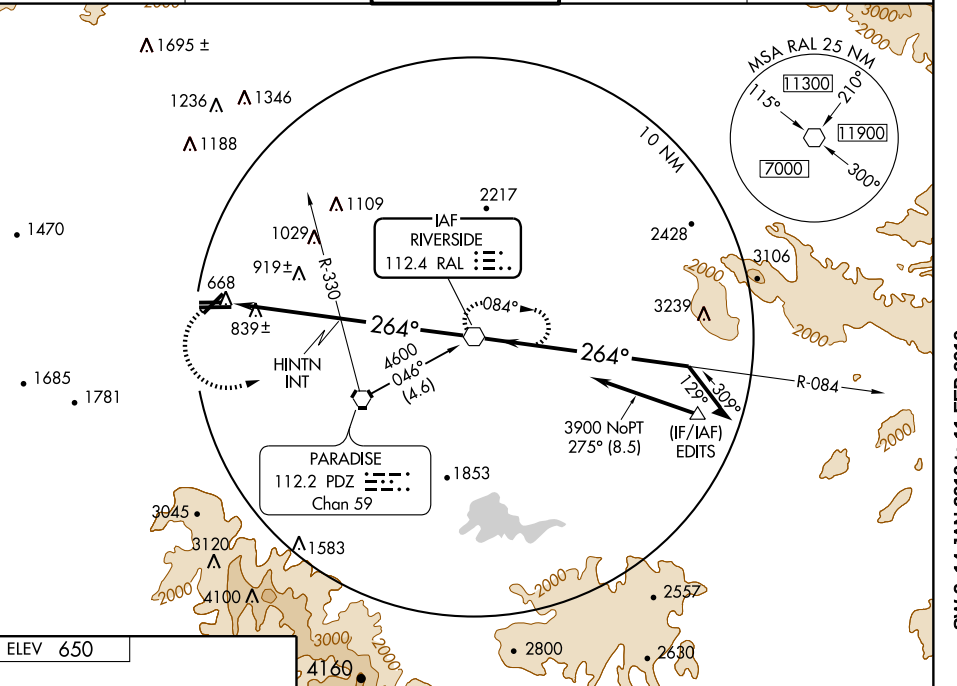


Visibility reduction by helicopters NA.

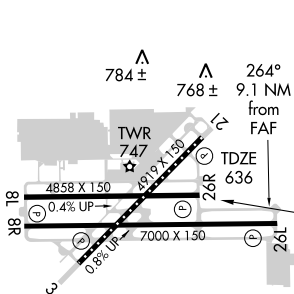
When local altimeter setting not received, use Riverside Muni altimeter setting and increase all MDA 60 feet, increase HINTN FIX minimums S-26R and circling Cat B, C, and D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4500 direct RAL VOR and hold, continue climb-in-hold to 4500.

ATIS 125.85	SOCAL APP CON 135.4 377.125	CHINO TOWER* 118.5 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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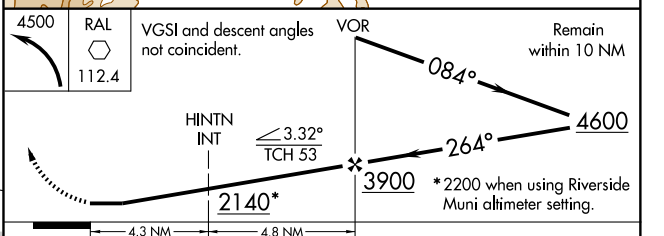
ELEV 650



REIL Rwy 3 and 21
MIRL Rwy 3-21 and 8R-26L
HIRL Rwy 8L-26R

FAF to MAP 9.1 NM

Knots	60	90	120	150	180
Min:Sec	9:06	6:04	4:33	3:38	3:02



CATEGORY	A	B	C	D
S-26R	2140-1¼ 1504 (1500-1¼)	2140-1½ 1504 (1500-1½)	2140-3	1504 (1500-3)
CIRCLING	2140-1¼ 1490 (1500-1¼)	2140-1½ 1490 (1500-1½)	2140-3	1490 (1500-3)
HINTN FIX MINIMUMS				
S-26R	1320-1	684 (700-1)	1320-2 684 (700-2)	1320-2¼ 684 (700-2¼)
CIRCLING	1320-1	670 (700-1)	1320-2 670 (700-2)	1320-2¼ 670 (700-2¼)

ZIGGY FOUR ARRIVAL

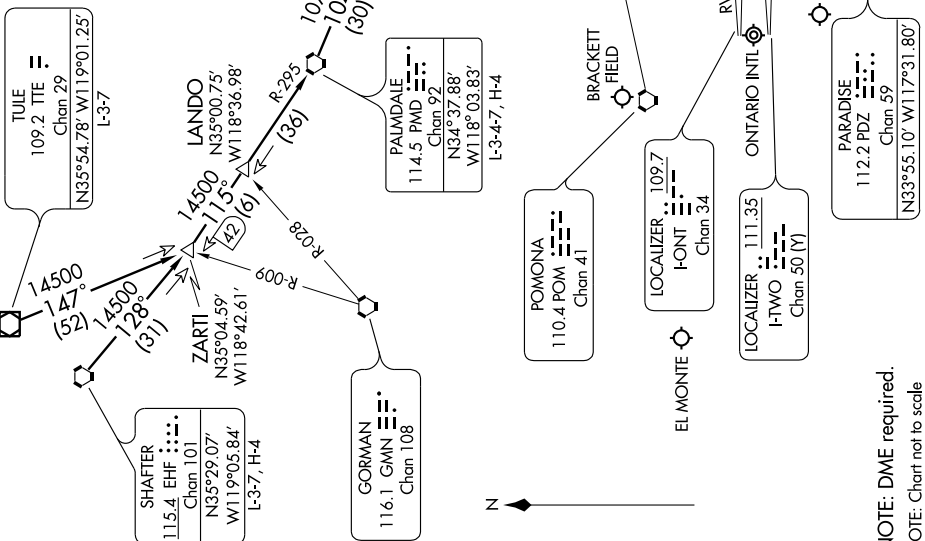
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

APP CRS
314°

Rwy Idg
TDZE
Apt Elev

2645
271
272

RNAV (GPS) RWY 32

CLOVERDALE MUNI (060)

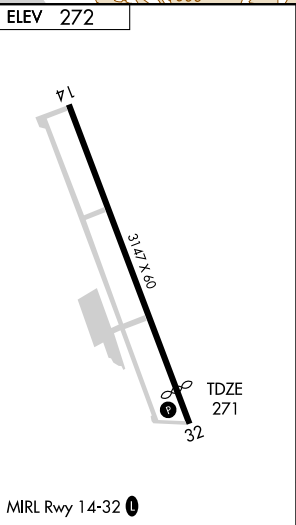
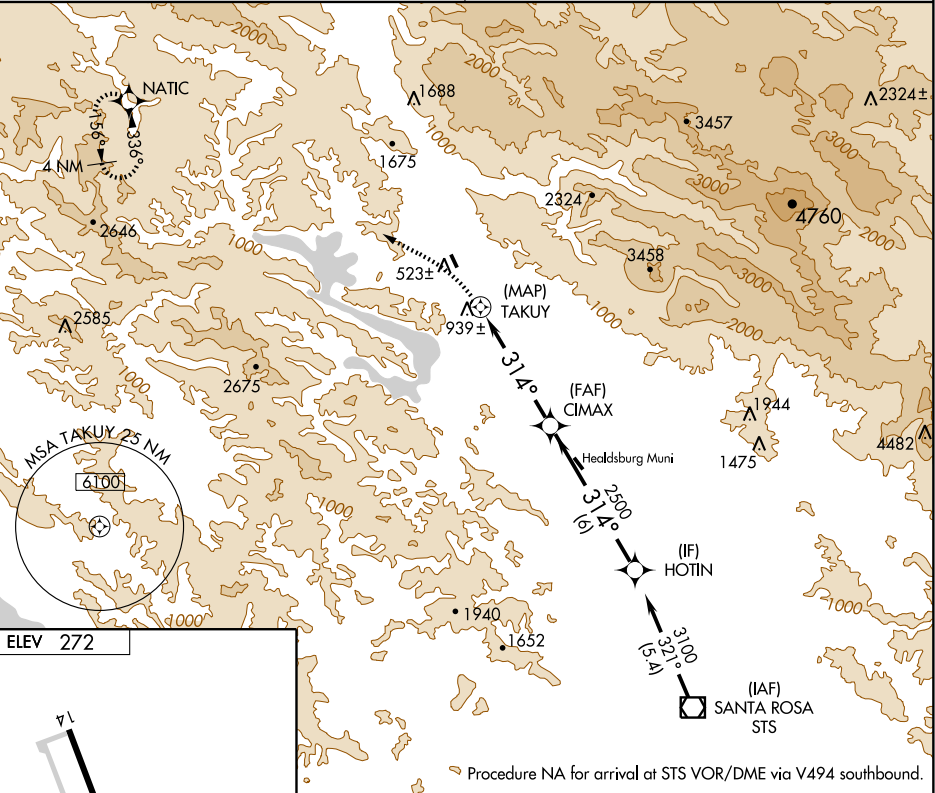
NA

Use Santa Rosa/Charles M. Schulz-Sonoma Co. altimeter setting; when not received procedure NA.
Procedure NA at night. Circling NA east of Rwy 14-32
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 6000 direct NATIC WP and hold.

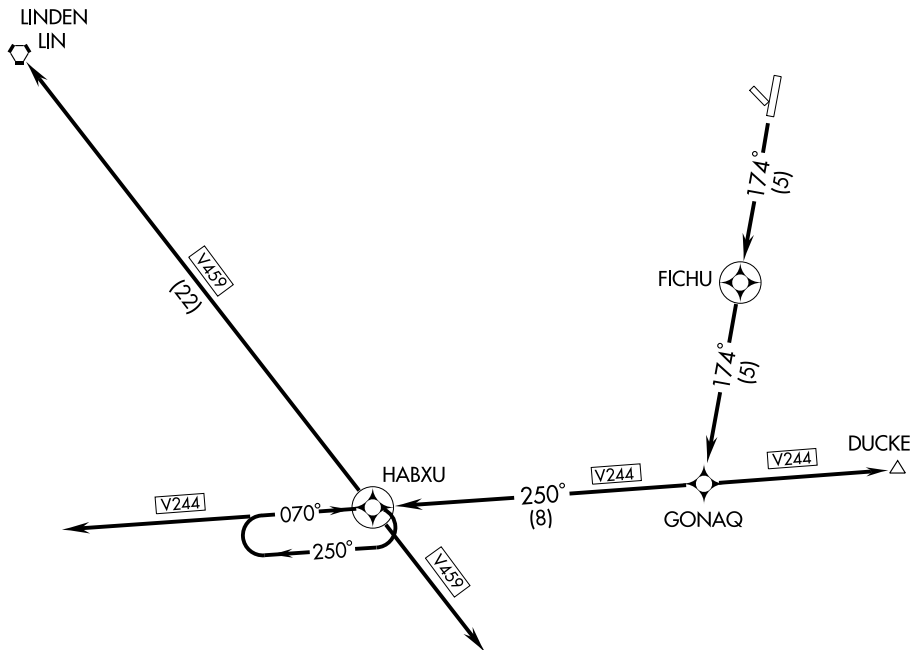
OAKLAND CENTER
127.8 353.5

UNICOM
122.8 (CTAF)



Procedure NA for arrival at STS VOR/DME via V494 southbound.				
6000 NATIC VGSI and descent angles not coincident.				
CATEGORY	A	B	C	D
LNAV MDA	1440-2	1169 (1200-2)	1440-3 1169 (1200-3)	NA
CIRCLING	1440-2	1168 (1200-2)	1640-3 1368 (1400-3)	NA

NORCAL DEP CON
(N) 123.7 338.25
(W) 125.1 363.2
OAKLAND CENTER
(E) 126.85 322.55
RANCHO MURIETA RADIO
122.3



NOTE: Runway 17: 300-1 with a climb rate of 300' per NM to 3000'.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb to 4000 via 174° course to FICHU WP, 174° course to GONAQ WP, 250° course to HABXU WP; Aircraft V-459 southeast, northwest and V-244 westbound proceed on course; Aircraft departing V-244 eastbound climb in HABXU WP holding pattern to 8000, Then proceed on course.

TAKE-OFF RUNWAY 35: Not authorized.

APP CRS 354°	Rwy Idg TDZE Apt Elev	4286 2103 2118
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GPS RWY 35
COLUMBIA (022)

T If local altimeter setting not received, procedure not authorized.
A NA Circling not authorized east of Rwy 17-35.

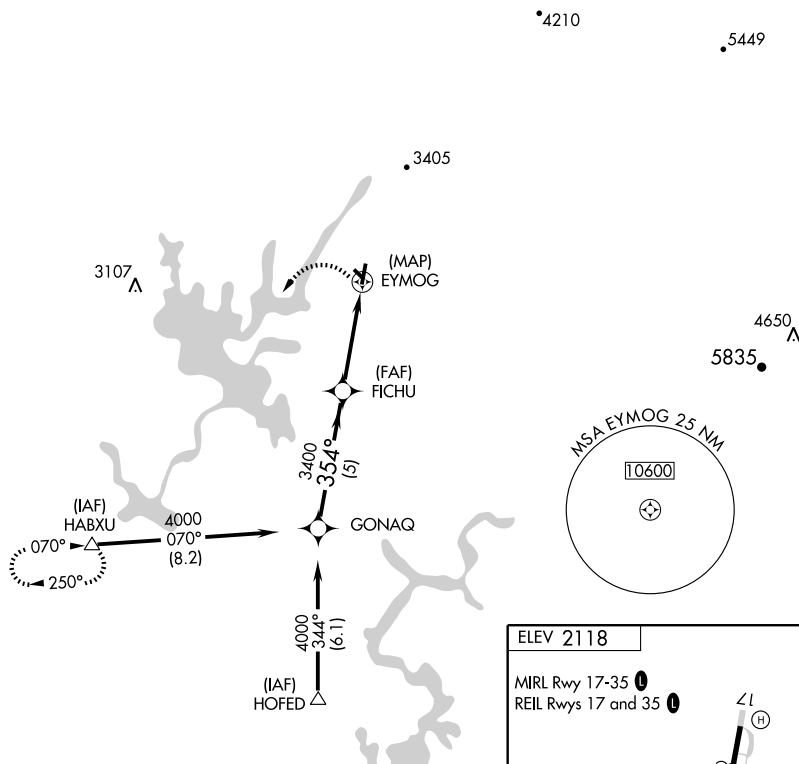
MISSED APPROACH: Climbing left turn to 4000 direct HABXU WP and hold.

AWOS-3
124.65

NORCAL APP CON
(N) **123.7 338.25**
(W) **125.1 363.2**

OAKLAND CENTER
(E) **126.85 322.55**

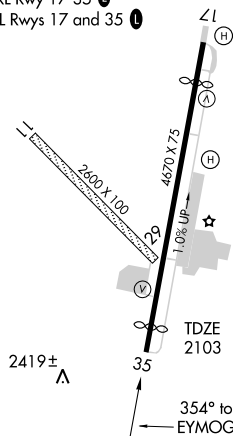
UNICOM
122.975 (CTAF)



SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 2118

MIRL Rwy 17-35 **L**
REIL Rwy 17 and 35 **L**



GONAQ

Procedure

Turn NA

FICHU

4000	HABXU
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EYMOG

A horizontal line representing a DNA molecule. It is divided into two segments by a vertical tick mark. The left segment is labeled "5 NM" and the right segment is labeled "4 NM". The total length is indicated as 9 NM in the text above.

CATEGORY	A	B	C	D
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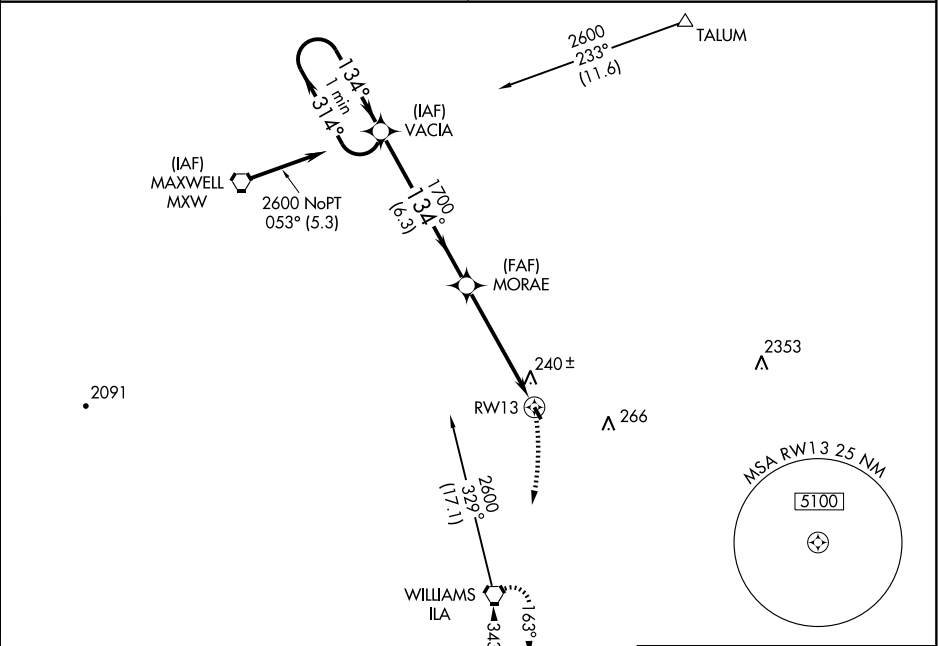
S-35	2800-1 697 (700-1)	2800-2 (27,700-2)	NA
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697 (700-2)	697 (700-2)	697 (700-2)	697 (700-2)
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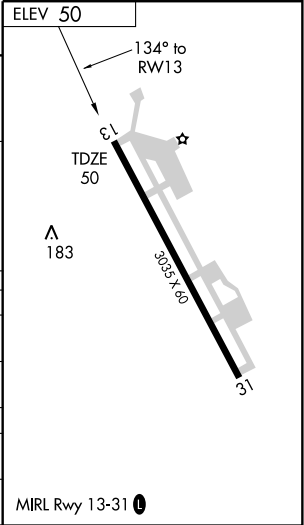
CIRCLING	2800-1	2840-1	2840-2	NA
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APP CRS	Rwy Idg	3035
134°	TDZE	50
	Apt Elev	50

NA Obtain local altimeter setting on CTAF; when not received, use Sacramento Intl altimeter setting.	MISSED APPROACH: Climbing right turn to 4000 direct ILA VORTAC and hold.
OAKLAND CENTER 132.2 350.3	UNICOM 122.8 (CTAF) 0



One Minute Holding Pattern VACIA 2600 ← 314° / 134° → VDP and descent angle/gradient NA with Sacramento Intl altimeter setting. MORAE 1700 1.4 NM to RW13 3.04° TCH 40 4000 ILA				
6.3 NM 3.6 NM 1.4				
CATEGORY	A	B	C	D
S-13	540-1	490 (500-1)	540-1½ 490 (500-1½)	NA
CIRCLING	600-1	550 (600-1)	600-1½ 550 (600-1½)	NA
SACRAMENTO ALTIMETER SETTING MINIMUMS				
S-13	640-1	590 (600-1)	640-1½ 590 (600-1½)	NA
CIRCLING	680-1	630 (700-1)	680-1¾ 630 (700-1¾)	NA



▽

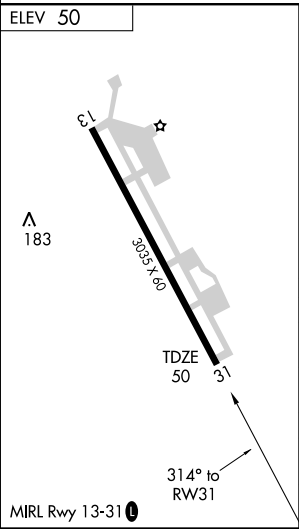
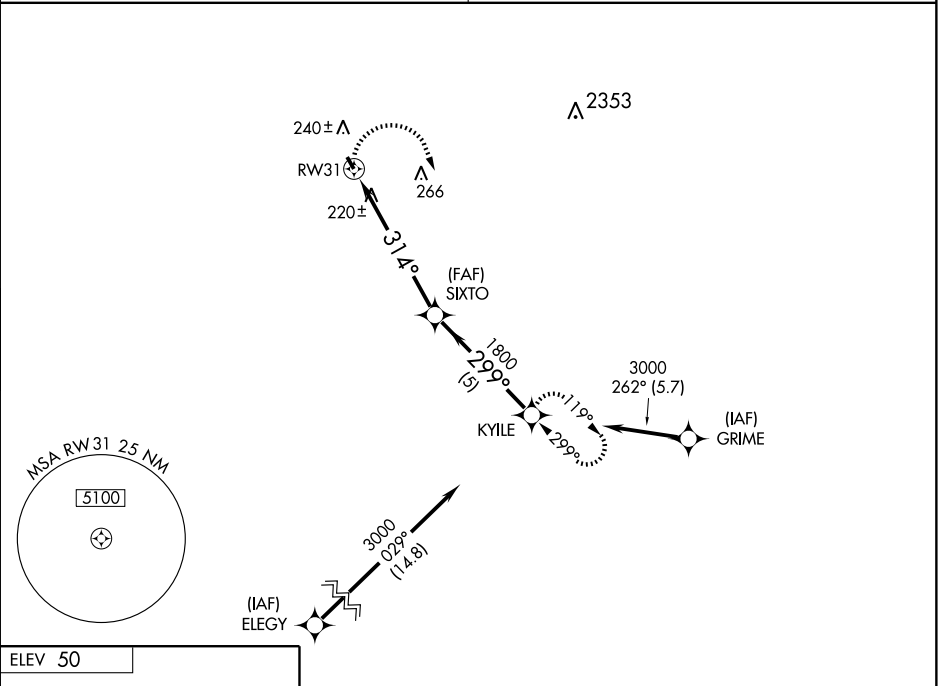
△NA

Obtain local altimeter setting on CTAF; when not received, use Sacramento Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 4000 direct to KYILE WP and hold.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) 0



4000	KYILE	VDP and descent angle NA with Sacramento Intl altimeter.			
		Procedure Turn NA			
CATEGORY	A	B	C	D	
S-31	520-1	470 (500-1)	520-1¼ 470 (500-1¼)	NA	
CIRCLING	600-1	550 (600-1)	600-1½ 550 (600-1½)	NA	
SACRAMENTO INTL ALTIMETER SETTING MINIMUMS					
S-31	620-1	580 (600-1)	620-1½ 580 (600-1½)	NA	
CIRCLING	680-1	630 (700-1)	680-1¾ 630 (700-1¾)	NA	

▼

NA

Obtain local altimeter setting on CTAF; when not received, use Sacramento Intl altimeter setting.

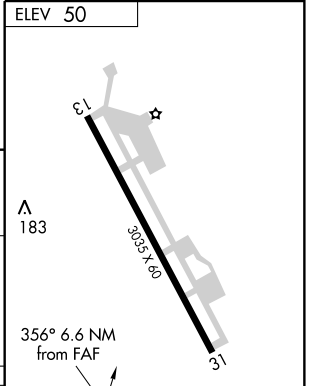
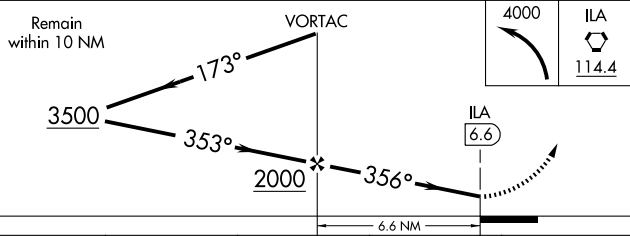
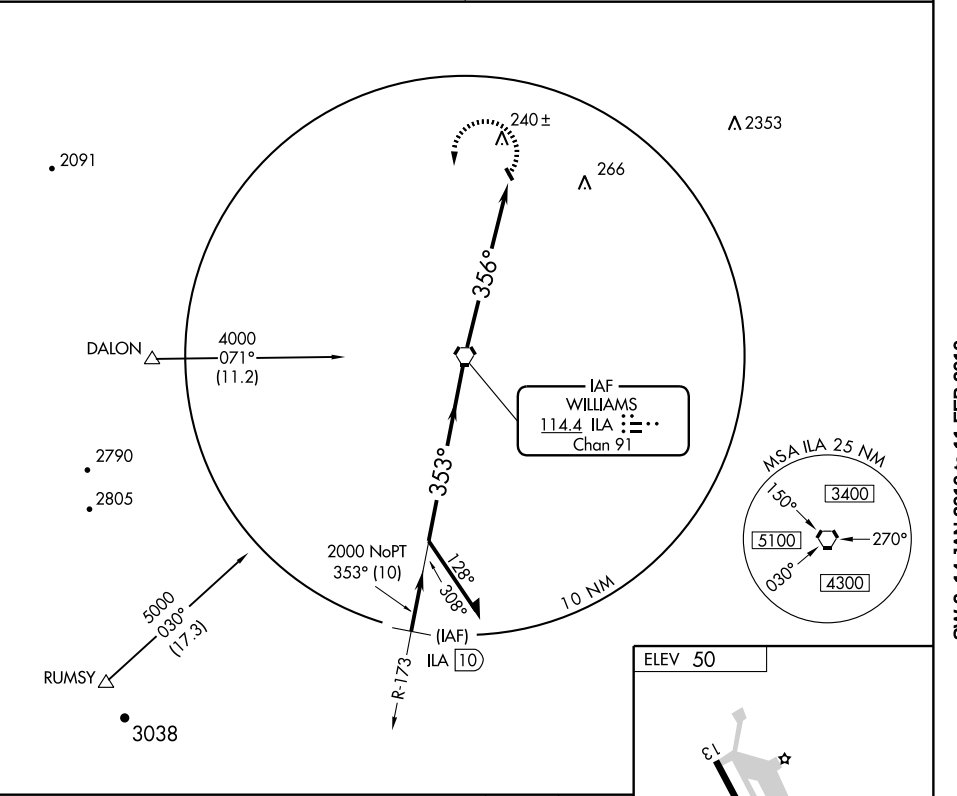
MISSED APPROACH: Climbing left turn to 4000 direct ILA VORTAC.

OAKLAND CENTER

132.2 350.3

UNICOM

122.8 (CTAF) 0



CATEGORY	A	B	C	D	13-31 MIRL Rwy 13-31					
CIRCLING	600-1 550 (600-1)		NA							
SACRAMENTO INTL ALTIMETER SETTING MINIMUMS					FAF to MAP 6.6 NM					
CIRCLING	680-1 630 (700-1)		NA		Knots	60	90	120	150	180
					Min:Sec	6:36	4:24	3:18	2:38	2:12

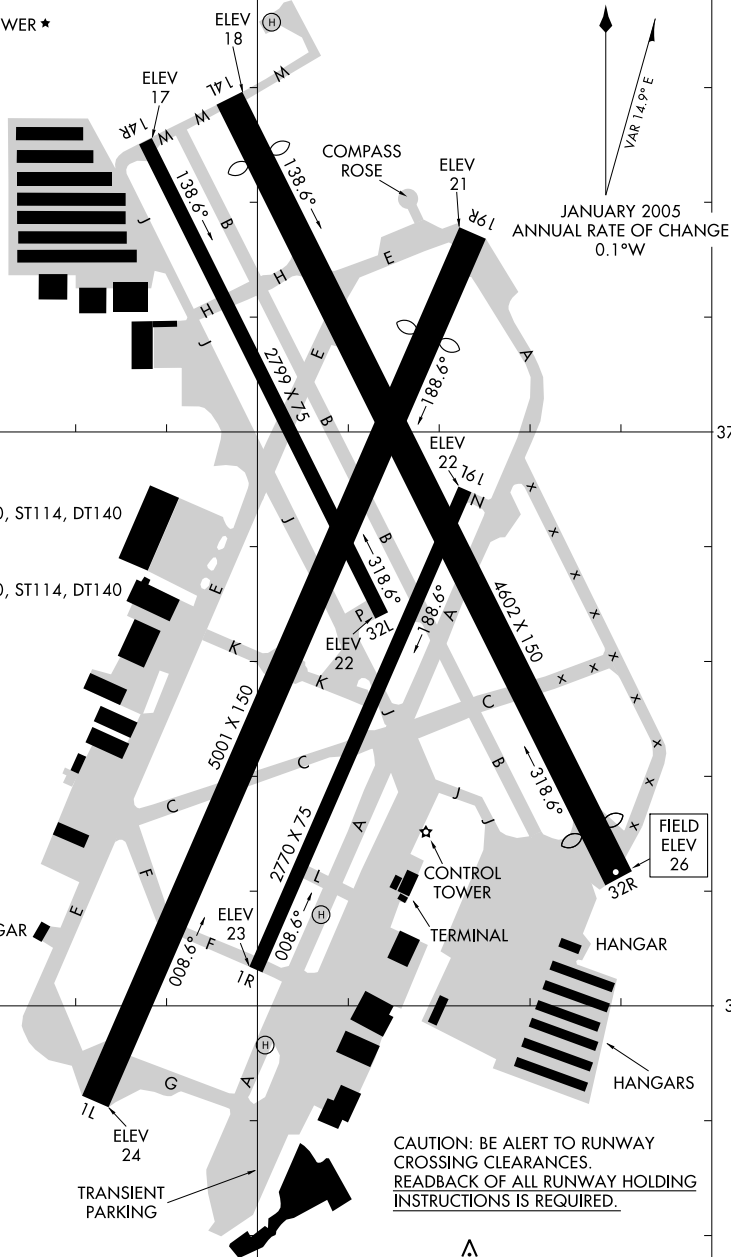
AIRPORT DIAGRAM

AL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)
CONCORD, CALIFORNIA

ATIS
124.7
CONCORD TOWER ★
119.7 257.8
GND CON
121.9
CLNC DEL
118.75

D



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-2 14 JAN 2010 to 11 FEB 2010

GND CON

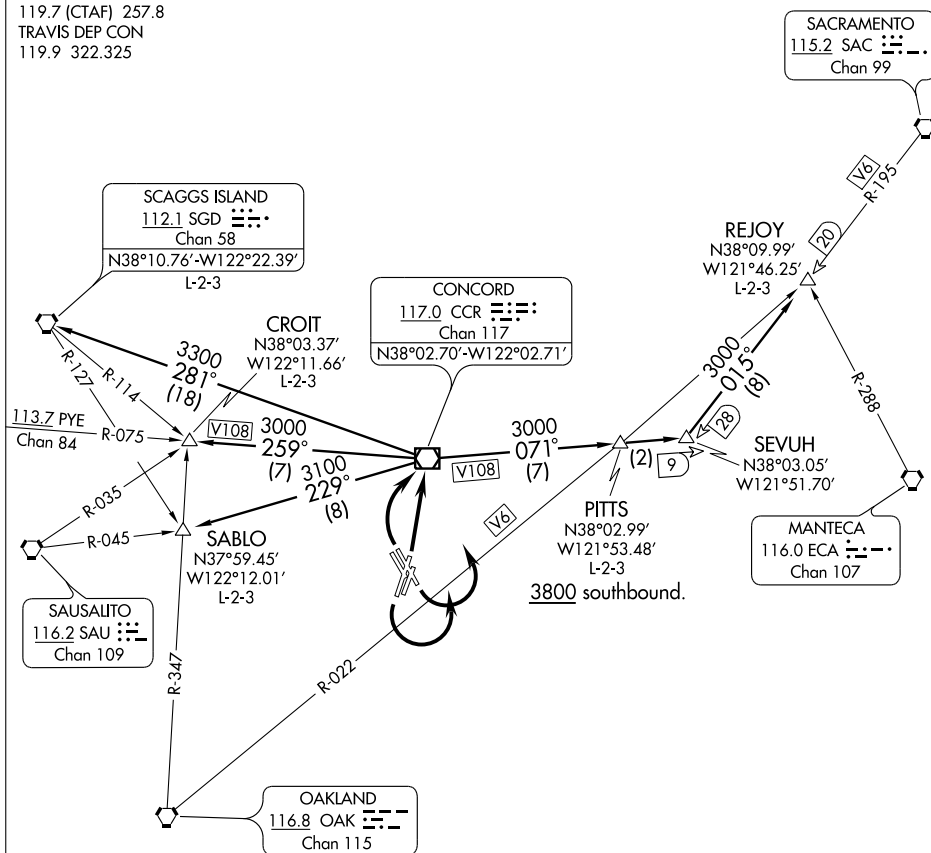
121 9

CONCORD TOWER ★

119.7 (CTAF) 257.8

TRAVIS DEP CON

119.9 322.325



TAKE-OFF MINIMUMS

Rwys 1L, 14L, 19R, 32R: Standard with the following minimum climb requirements:

Rwy 1L: Obstacle climb of 360' per NM to 1100 (3800 for PITTS Transition).

ATC climb of 360' per NM to 3000.

Rwy 14L: Obstacle climb of 420' per NM to 2700 (3800 for PITTS Transition).

ATC climb of 420' per NM to 3000.

Rwy 19R: Obstacle climb of 490' per NM to 4000.

Rwy 32R: Obstacle climb of 360' per NM to 500 (3800 for PITTS Transition).

ATC climb of 320' per NM to 3000.

Rwys 1R, 14R, 19L, 32L: NA-air traffic.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-2. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb direct CCR VOR/DME . Thence

TAKE-OFF RUNWAY 14L: Climbing left turn direct CCR VOR/DME. Thence

TAKE-OFF RUNWAY 19R: Climbing left turn direct CCR VOR/DME. Thence

TAKE-OFF RUNWAY 32R: Climbing right turn direct CCR VOR/DME. Thence

....via (transition) or (assigned route).

CROIT TRANSITION (BCHN9.CROIT): From over CCR VOR/DME via CCR R-259 to CROIT INT.

PITTS TRANSITION (BCHN9.PITTS): From over CCR VOR/DME via CCR R-071 to PITTS INT.

REJOY TRANSITION (BCHN9.REJOY): From over CCR VOR/DME via CCR R-071 and SAC R-195 to REJOY INT.

SABLO TRANSITION (BCHN9.SABLO): From over CCR VOR/DME via CCR R-229 to SABLO INT.

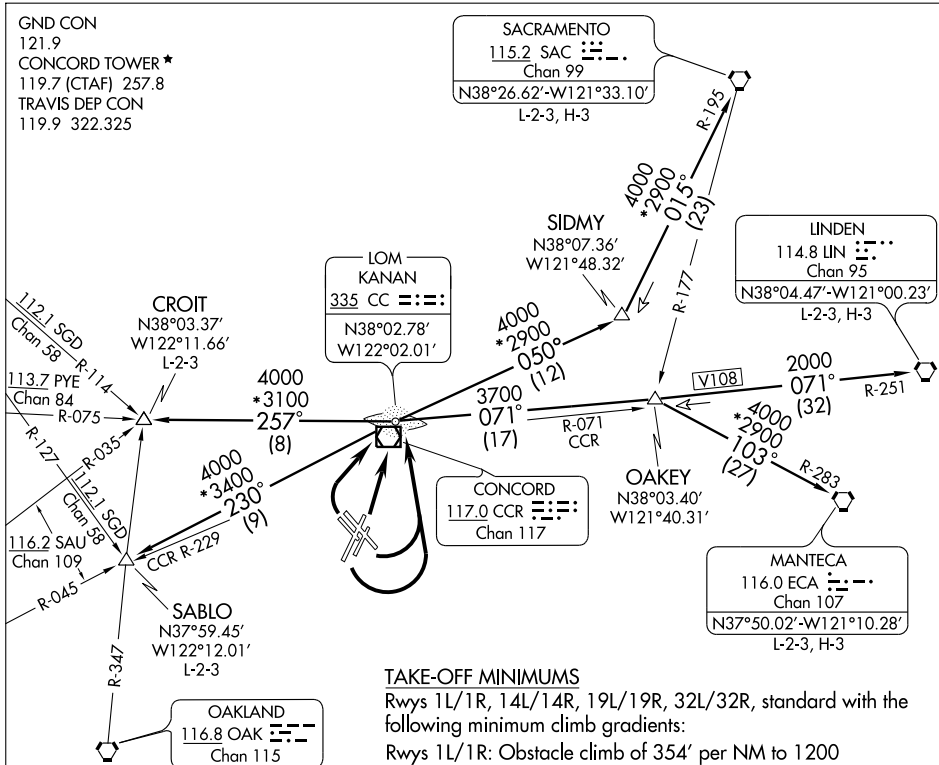
SCAGGS ISLAND TRANSITION (BCHN9.SGD): From over CCR VOR/DME via CCR R-281 to SGD VORTAC.

TAKE-OFF OBSTACLE NOTES

- Rwy 1L: Multiple trees and bushes beginning 675' from DER, 9' left of centerline, up to 48' AGL/98' MSL.
Multiple poles, light poles and antennas on buildings beginning 639' from DER, 120' left of centerline, up to 50' AGL/72' MSL.
Fence 117' from DER, 2' right of centerline, 12' AGL/29' MSL.
Sign 1996' from DER, 812' left of centerline, 45' AGL/78' MSL.
Flagpole 1520' from DER, 753' left of centerline, 40' AGL/71' MSL.
- Rwy 14L: Multiple trees beginning 841' from DER, 61' left of centerline, up to 78' AGL/102' MSL.
Building 1071' from DER, 35' left of centerline, 30' AGL/58' MSL.
Fence 225' from DER, 29' left of centerline, 12' AGL/33' MSL.
- Rwy 19R: Multiple trees beginning 604' from DER, 82' left of centerline, up to 70' AGL/108' MSL.
Light pole 1392' from DER, 749' right of centerline, 51' AGL/71' MSL.
OL on building 2451' from DER, 911' left of centerline, 73' AGL/97' MSL.
Fence 123' from DER, 503' left of centerline, 6' AGL/30' MSL.
- Rwy 32R: Train 1 NM from DER, 1948' left of centerline, 23' AGL/102' MSL.
OL on hopper 2110' from DER, 601' right of centerline, 79' AGL/99' MSL.
OL on tank 1.1 NM from DER, 1426' right of centerline, 193' AGL/213' MSL.
Flagpole 655' from DER, 300' right of centerline, 35' AGL/43' MSL.
Sign 697' from DER, 248' right of centerline, 25' AGL/41' MSL.
Road/vehicle 561' from DER, on centerline, 15' AGL/49' MSL.
Building 633' from DER, 246' left of centerline, 20' AGL/35' MSL.
Tree 825' from DER, 635' left of centerline, 25' AGL/40' MSL.
TRMSN tower 6015' from DER, 1839' left of centerline, 145' AGL/173' MSL.

KANAN TWO DEPARTURE

SL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)
CONCORD, CALIFORNIA

(NOTES CONTINUED ON THE FOLLOWING PAGE)

(NARRATIVE ON FOLLOWING PAGE)

NOTE: ADF Required

NOTE: Chart not to scale.

KANAN TWO DEPARTURE

SL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)

CONCORD, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb direct CC LOM. Thence....

TAKE-OFF RUNWAYS 14L/R: Climbing left turn direct CC LOM. Thence....

TAKE-OFF RUNWAYS 19L/R: Climbing left turn direct CC LOM. Thence....

TAKE-OFF RUNWAYS 32L/R: Climbing right turn direct CC LOM. Thence....

....via (transition) or (assigned route).

CROIT TRANSITION (KANAZA.CROIT): From over CC LOM via CC 257° bearing to CROIT INT.

LINDEN TRANSITION (KANAZA.LIN): From over CC LOM via CC 071° bearing and LIN R-251 to LIN VORTAC.

MANTECA TRANSITION (KANAZA.ECA): From over CC LOM via CC 071° bearing and ECA R-283 to ECA VORTAC.

SABLO TRANSITION (KANAZA.SABLO): From over CC LOM via CC 230° bearing to SABLO INT.

SACRAMENTO TRANSITION (KANAZA.SAC): From over CC LOM via CC 050° bearing and SAC R-195 to SAC VORTAC.

TAKE-OFF OBSTACLE NOTES (CONT)

Rwy 14L: Tree 1637' from DER, 328' right of centerline, 50' AGL/82' MSL.

Tree 1496' from DER, 474' right of centerline, 55' AGL/84' MSL.

Pole 1367' from DER, 275' right of centerline, 40' AGL/71' MSL.

Tree 1332' from DER, 61' left of centerline, 65' AGL/81' MSL.

Building 1071' from DER, 35' left of centerline, 30' AGL/58' MSL.

Building 5548' from DER, 1870' left of centerline, 110' AGL/176' MSL.

Obst light on building 5414' from DER, 100' left of centerline, 120' AGL/177' MSL.

Tree 942' from DER, 388' left of centerline, 50' AGL/102' MSL.

Tree 841' from DER, 177' left of centerline, 65' AGL/77' MSL.

Fence 225' from DER, 29' left of centerline, 12' AGL/33' MSL.

Rwy 14R: Obst light on airport beacon 1140' from DER, 315' right of centerline, 70' AGL/98' MSL.

Antenna 3254' from DER, 1096' right of centerline, 110' AGL/136' MSL.

Obst light on windsock 412' from DER, 451' right of centerline, 35' AGL/51' MSL.

Light 1281' from DER, 167' right of centerline, 45' AGL/69' MSL.

Tree 2745' from DER, 887' left of centerline, 65' AGL/102' MSL.

Building 3240' from DER, 1088' right of centerline, 55' AGL/129' MSL.

Rwy 19L: Tree 2257' from DER, 28' left of centerline, 70' AGL/97' MSL.

Tree 2132' from DER, 377' left of centerline, 70' AGL/90' MSL.

Tree 3112' from DER, 946' right of centerline, 70' AGL/106' MSL.

Tree 2544' from DER, 384' right of centerline, 60' AGL/87' MSL.

Rwy 19R: Fence 123' from DER, 503' left of centerline, 12' AGL/30' MSL.

Multiple trees beginning 604' from DER, 489' right of centerline, up to 70' AGL/106' MSL.

Light pole 1392' from DER, 749' right of centerline, 35' AGL/71' MSL.

Obst light 2451' from DER, 911' left of centerline, 77' AGL/97' MSL.

Multiple trees beginning 1276' from DER, 527' left of centerline, up to 70' AGL/108' MSL.

Rwy 32L: Multiple lighted stacks/towers beginning 6617' from DER, 1926' right of centerline, up to 250' AGL/378' MSL.

Hangar 259' from DER, 300' left of centerline, 25' AGL/37' MSL.

Transmission tower 6015' from DER, 1338' left of centerline, 145' AGL/173' MSL.

Road /vehicle 561' from DER, 504' right of centerline, 15' AGL/49' MSL.

Building 633' from DER, 254' right of centerline, 15' AGL/35' MSL.

Tree 825' from DER, 136' left of centerline, 25' AGL/40' MSL.

Rwy 32R: Multiple lighted stacks and buildings beginning 6617' from DER, 1426' right of centerline, up to 355' AGL/378' MSL.

Flagpole 665' from DER, 300' right of centerline, 35' AGL/43' MSL.

Building 633' from DER, 246' left of centerline, 20' AGL/35' MSL.

Tree 825' from DER, 635' left of centerline, 25' AGL/40' MSL.

Transmission tower 6015' from DER, 1839' left of centerline, 145' AGL/173' MSL.

Obst light on hopper 2110' from DER, 601' right of centerline, 79' AGL/99' MSL.

Sign 697' from DER, 248' right of centerline, 25' AGL/41' MSL.

Road/vehicle 561' from DER, on centerline, 15' AGL/49' MSL.

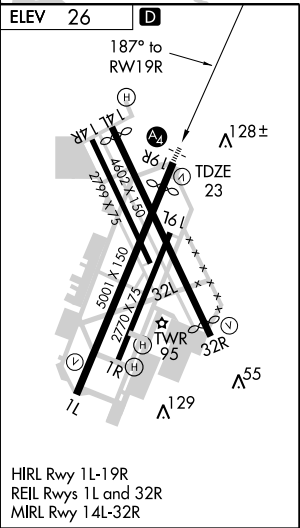
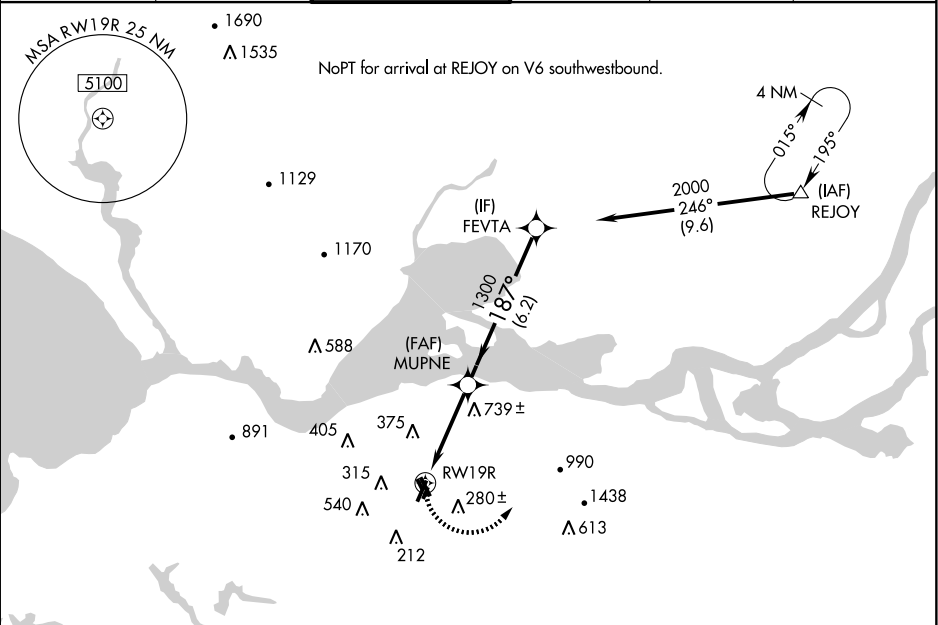
[illegible]

APP CRS	Rwy Idg	4410
187°	TDZE	23
	Apt Elev	26

RNAV (GPS) RWY 19R
CONCORD/BUCHANAN FIELD (CCR)

⚠ Circling NA west of Rwy 1L-19R. ⚠ When VGSI inoperative, circling Rwy 1L and 32R NA at night. DME/DME RNP-0.3 NA. Inoperative table does not apply.	MALS 	MISSED APPROACH: Climbing left turn to 3000 direct REJOY and hold.
--	---	---

ATIS 124.7	TRAVIS APP CON 119.9 322.325	CONCORD TOWER★ 119.7 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 118.75	UNICOM 122.95
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3000 REJOY  VGSI and descent angles not coincident.				
MUPNE FEVTA 2.2 NM to RW19R $\angle 3.04^\circ$ TCH 45 RW19R $\angle 187^\circ$ 2000 Procedure Turn NA 2.2 NM 1.6 NM 6.2 NM				
CATEGORY	A	B	C	D
LNAV MDA	1000-1¼ 977 (1000-1¼)	1000-1½ 977 (1000-1½)	1000-3	977 (1000-3)
CIRCLING	1000-1¼ 974 (1000-1¼)	1000-1½ 974 (1000-1½)	1000-3	974 (1000-3)

VOR/DME CCR	APP CRS	Rwy Idg	4410
117.0	171°	TDZE	20
Chan 117		Apt Elev	23

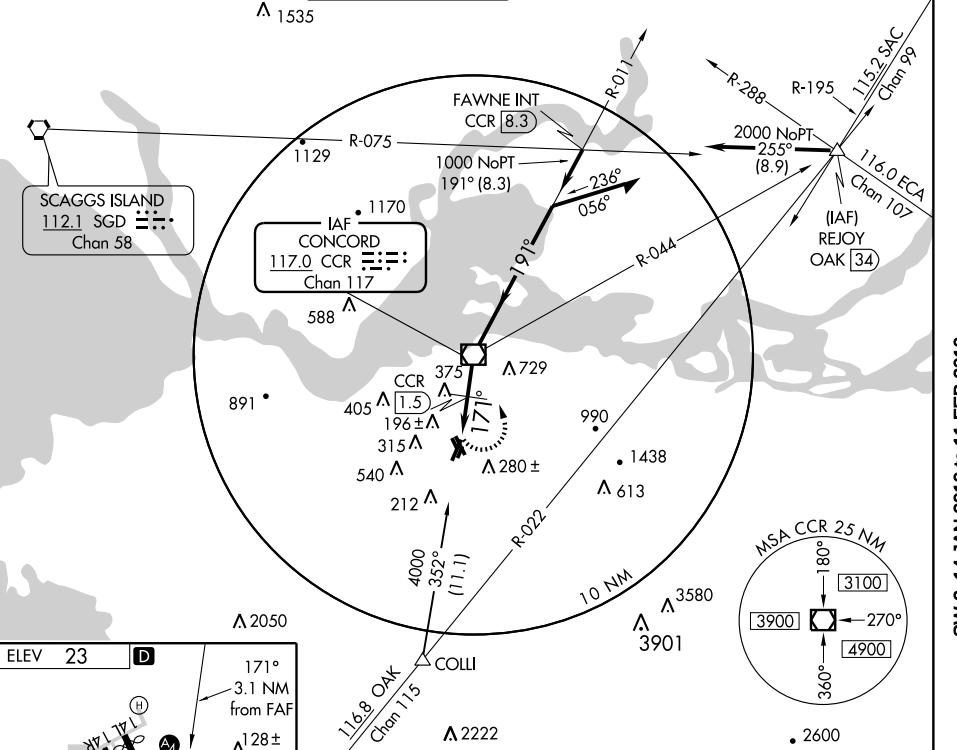
Circling NA west of Rwy 1L and 14R.
Inoperative table does not apply to Cat C.

MALS

-

MISSED APPROACH: Climbing left turn to 2500 direct CCR VOR/DME then via CCR R-044 to REJOY Int.

ATIS 124.7	TRAVIS APP CON 119.9 322.325	CONCORD TOWER★ 119.7 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 118.75	UNICOM 122.95
---------------	---------------------------------	--	------------------	--------------------	------------------



ELEV 23

D

171°

3.1 NM

from FAF

128±

TDZE

20

129

120

110

100

90

80

70

60

50

40

30

20

10

0

1L

14L

32R

32L

14R

19R

HIRL Rwy 1L-19R

REIL Rwy 1L and 32R

MIRL Rwy 14L-32R

FAF to MAP 3.1 NM

Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

2500

CCR

117.0

CCR

R-044

REJOY

△

CCR

3.1

TCH

28

3.09°

171°

191°

640

1000

1.6 NM

1.5 NM

Remain within 10 NM

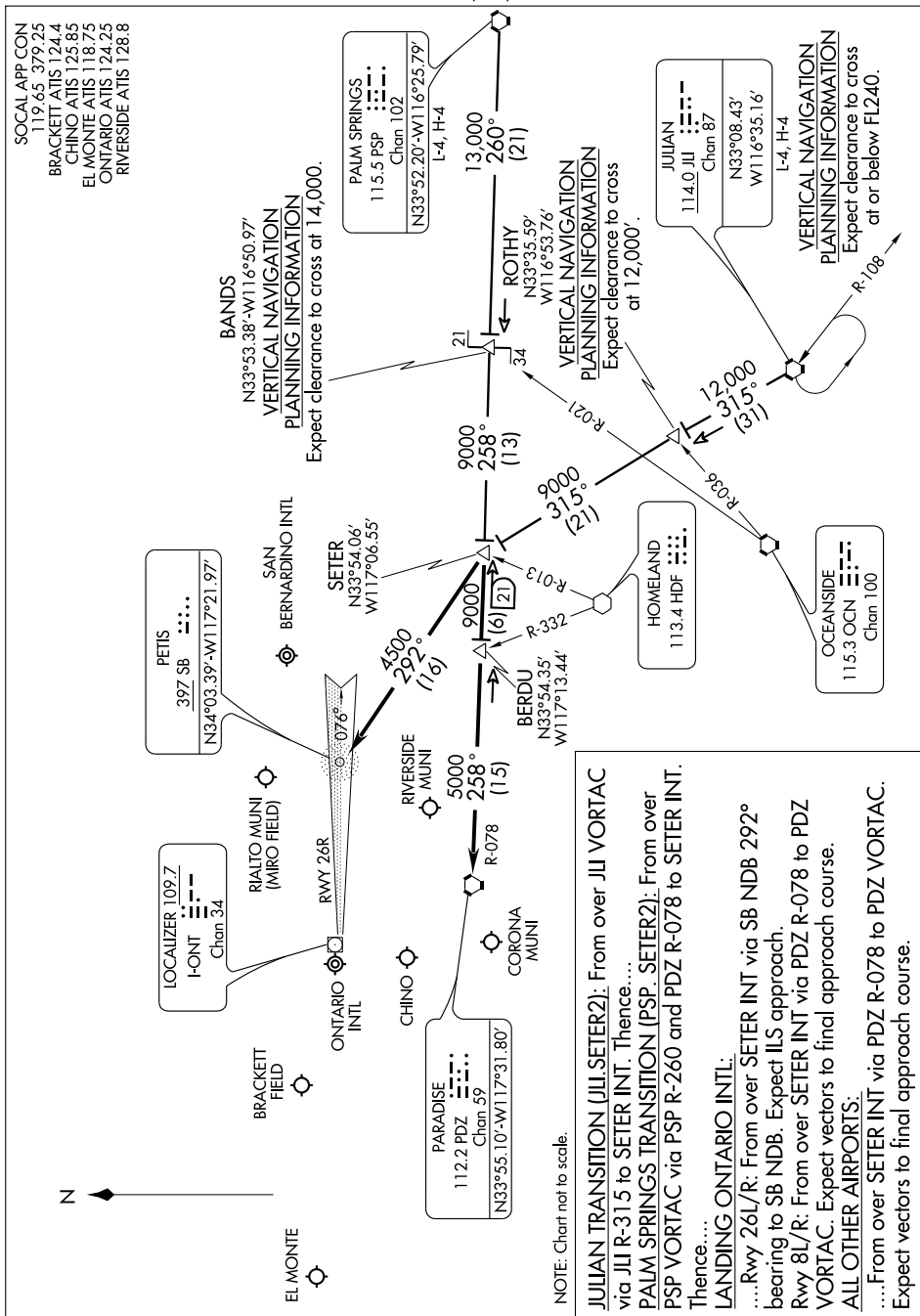
VGSi and descent angle not coincident.

SW-2, 14 JAN 2010 to 11 FEB 2010

SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

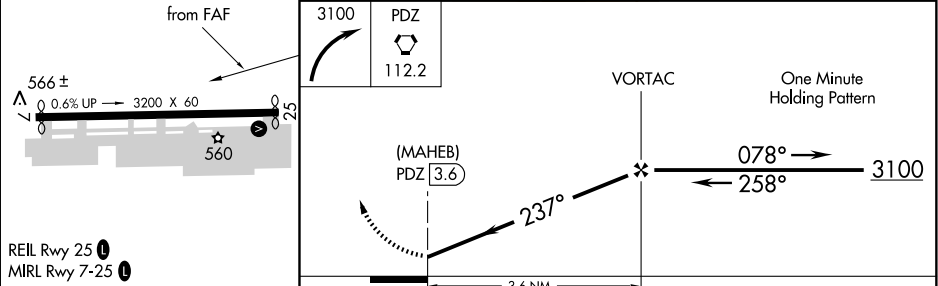
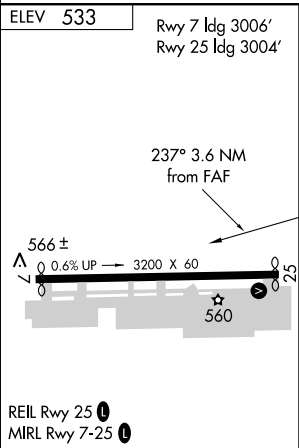
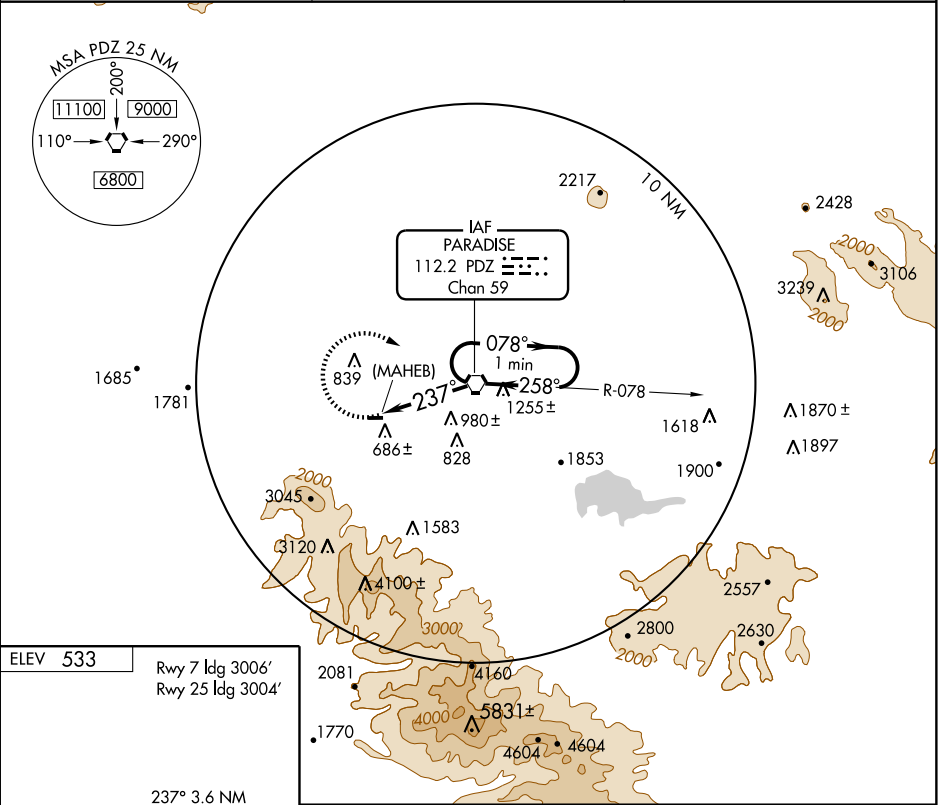


VOR or GPS-A
CORONA MUNI (AJO)

VORTAC PDZ 112.2 Chan 59	APP CRS 237°	Rwy Idg TDZE Apt Elev	N/A N/A 533
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When local altimeter setting not received, use Ontario Int'l altimeter setting and increase all MDA 80 feet.	MISSED APPROACH: Climbing right turn to 3100 direct PDZ VORTAC and hold, continue climb in hold to 3100.
---	---

ASOS 132.175	SOCAL APP CON 135.4 377.125	UNICOM 122.7 (CTAF) 0
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FAF to MAP 3.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1660-1¼ 1127 (1200-1¼)	1660-1½ 1127 (1200-1½)	NA	
Min:Sec	3:36	2:24	1:48	1:26	1:12					

ZIGGY FOUR ARRIVAL

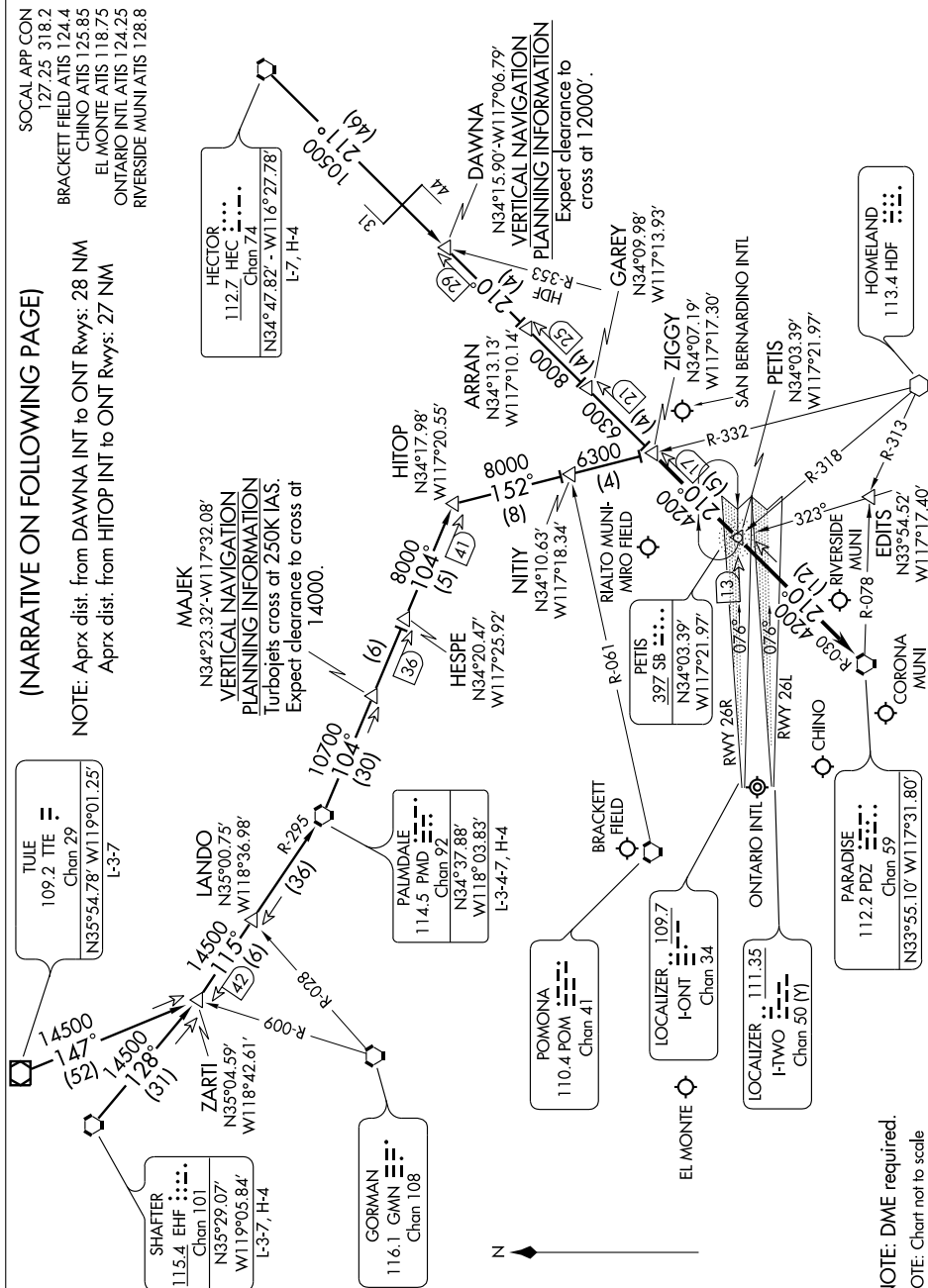
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: Chart not to scale

SW-3 14 JAN 2010 to 11 FEB 2010

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

GPS RWY 35

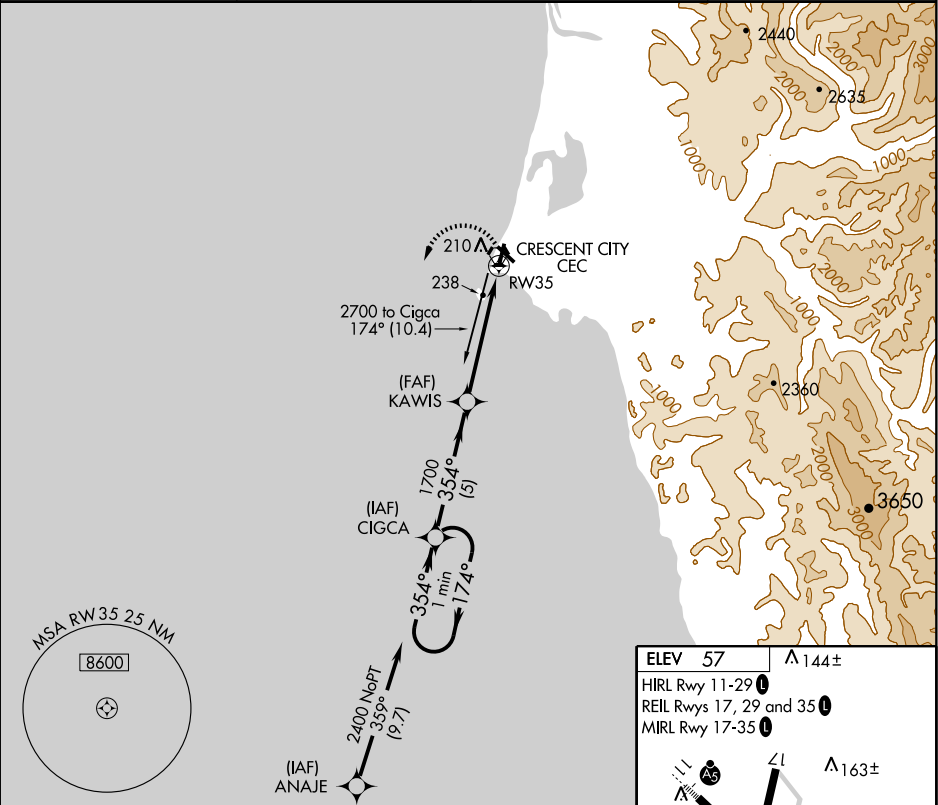
CRESCENT CITY/ JACK MC NAMARA FIELD (CEC)

APP CRS	Rwy Idg	5002
354°	TDZE	56
	Apt Elev	57

NA

MISSED APPROACH: Climbing left turn to 2400 direct CIGCA WP and hold.

ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF)
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One Minute Holding Pattern

2400

←174°

→354°

354°

1700

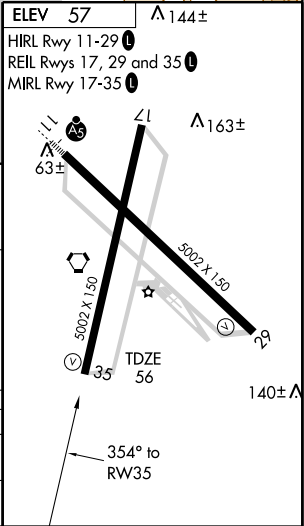
5 NM

5 NM

3.00 min TCH 48

RW35

CATEGORY	A	B	C	D
S-35	500-1	444 (500-1)	500-1½ 444 (500-1½)	500-1½ 444 (500-1½)
CIRCLING	540-1	483 (500-1)	540-1½ 483 (500-1½)	640-2 583 (600-2)



LOC I-CEC	APP CRS	Rwy Idg	5002
108.7	114°	TDZE	57
		Apt Elev	57

DME from CEC VORTAC. Simultaneous reception of I-CEC and CEC DME required.
Inoperative table does not apply to S-LOC 11 Cat D.

MALSR

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 via CEC R-161, then direct CEC VORTAC and hold.

ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF)
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MSA CEC 25 NM

090° 180° 270° 360°

5800 8500 1400 7100

294° 069° 249°

LR-305 1700 CEC 11 Arc

3000 to R-320 CEC 11 Arc

R-343 R-320

1700 114° 1700 (6)

(IAF) SLAMM CEC 5

2200 297° (5) 210 341°

10 NM

1700 NoPT CEC 11 Arc

4500 NoPT 163° (5)

(IAF) CEC 16

2707 2680 2440 2635 2360

LOCALIZER 108.7 I-CEC

CRESCENT CITY 109.0 CEC Chan 27

Remain within 10 NM

1700 294° 114° 1700

GS 3.00° TCH 55

SLAMM CEC 5

1655

CEC 0.6

4.4 NM 0.3

600 3000 CEC

↑ CEC R-161

63± 57

114° 4.7 NM from FAF

5002 X 1.50 35

5002 X 1.50 25

140±

CATEGORY	A	B	C	D
S-ILS 11	257-½ 200 (200-½)			
S-LOC 11	320-½ 263 (300-½)			320-1 263 (300-1)
CIRCLING	540-1 483 (500-1)	540-1½ 483 (500-1½)		640-2 583 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

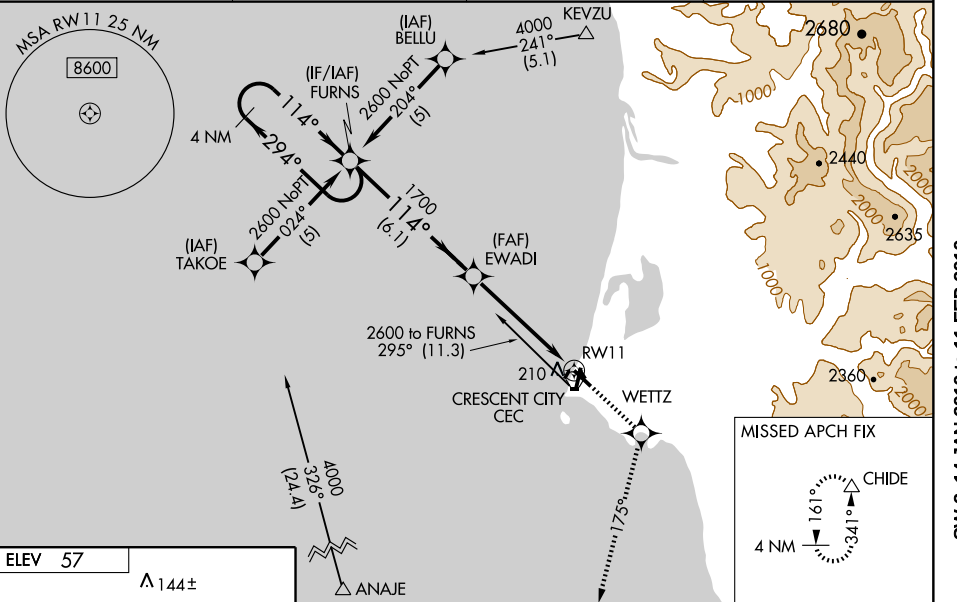
WAAS CH 90310 W11A	APP CRS 114°	Rwy Idg TDZE Apt Elev	5002 57 57
--	------------------------	-----------------------------	---------------------------------------

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, use Brookings altimeter setting and increase all DA 98 feet and all MDA 100 feet. Increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ¼ mile, LNAV Cat C and D ¼ mile, and Circling Cat C and D ½ mile. VDP and Baro-VNAV NA when using Brookings altimeter setting. For inoperative MALSR, increase LNAV Cat D visibility to 1 ¼ mile. For inoperative MALSR when using Brookings altimeter setting, increase LPV all Cats visibility to 1 ¼ mile.

MALSR

MISSED APPROACH: Climb to 3000 direct WETTZ and via 175° track to CHIDE and hold, continue climb-in-hold to 3000.

ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF) 0
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ELEV **57**

⚠ 144±

⚠ 163±

⚠ 140±

114° to RWY 11

63±

TDZE 57

5002 X 150

35

HIRL Rwy 11-29 0

REIL Rwy 17, 29 and 35 0

MIRL Rwy 17-35 0

4 NM Holding Pattern		FURNS		3000 ↑		WETTZ ✦		175° track		CHIDE △	
2600		294° ←		114° →		EWADI 1700		* LNAV only			
GS 3.00° TCH 55°		1700		114°		* 1.1 NM to RW11		RW11			
		6.1 NM		3.8 NM		1.1 NM					
CATEGORY		A		B		C		D			
LPV DA		307-½		250 (300-½)							
LNAV/ VNAV DA		556-1¼		499 (500-1¼)							
LNAV MDA		460-½ 403 (500-½)		460-¾ 403 (500-¾)		460-1 403 (500-1)					
CIRCLING		540-1 483 (500-1)		540-1½ 483 (500-1½)		640-2 583 (600-2)					

VORTAC CEC 109.0 Chan 27	APP CRS 126°	Rwy Idg 5002 TDZE 60 Apt Elev 61
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VOR/DME RWY 11

CRESCENT CITY/JACK MC NAMARA FIELD (CEC)

Inoperative table does not apply to Cat D.



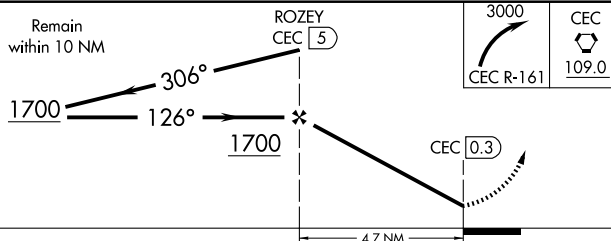
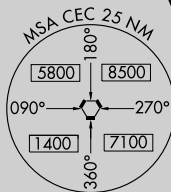
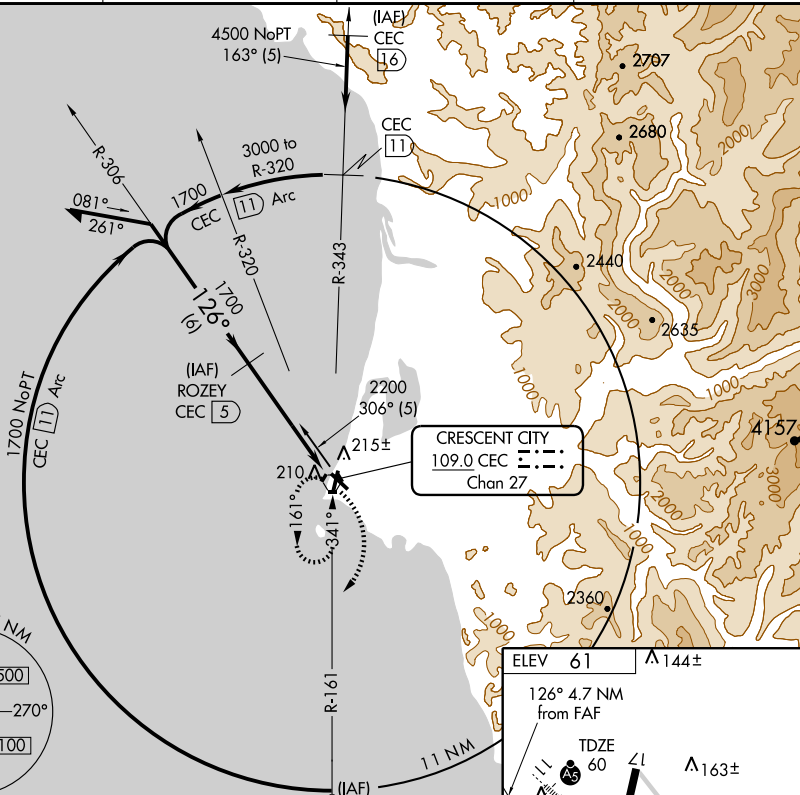
MISSED APPROACH: Climbing right turn to 3000
via CEC R-161 then direct CEC VORTAC and hold.

ASOS
119.925

SEATTLE CENTER
124.85 306.3

OAKLAND RADIO
122.3

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
S-11	480-½	420 (500-½)	480-¾ 420 (500-¾)	480-1¼ 420 (500-1¼)
CIRCLING	540-1	479 (500-1)	540-1½ 479 (500-1½)	640-2 579 (600-2)

HIRL Rwy 11-29 **L**
REIL Rwys 17, 29 and 35 **L**
MIRL Rwy 17-35 **L**

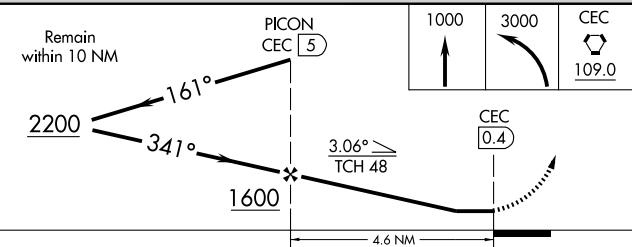
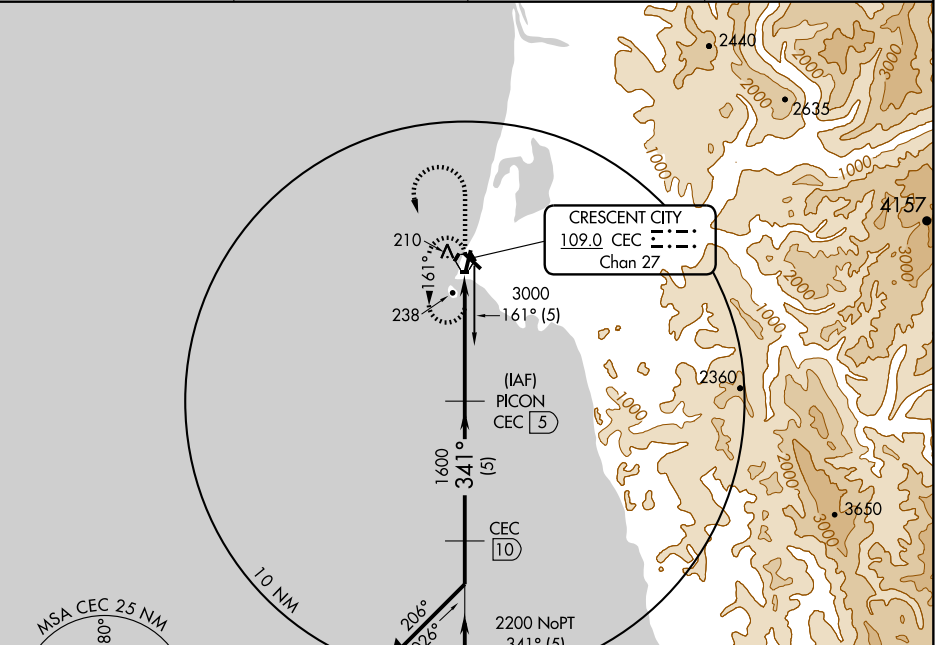
VORTAC CEC	APP CRS	Rwy Idg	5002
109.0	341°	TDZE	56
Chan 27		Apt Elev	57

VOR/DME RWY 35

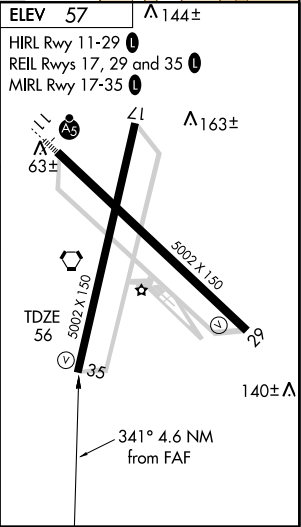
CRESCENT CITY/JACK MC NAMARA FIELD (CEC)

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CEC VORTAC and hold.	
--	--

ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-35	500-1 444 (500-1)		500-1¼ 444 (500-1¼)	500-1½ 444 (500-1½)
CIRCLING	540-1 483 (500-1)		540-1½ 483 (500-1½)	640-2 583 (600-2)



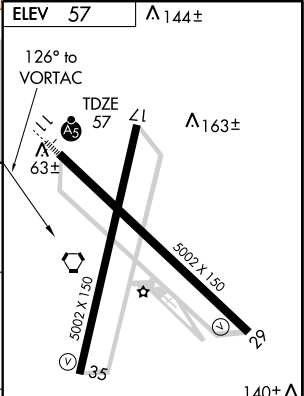
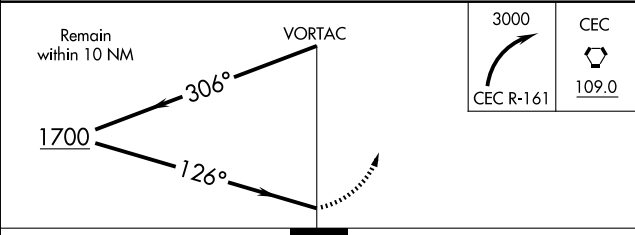
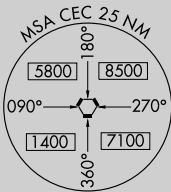
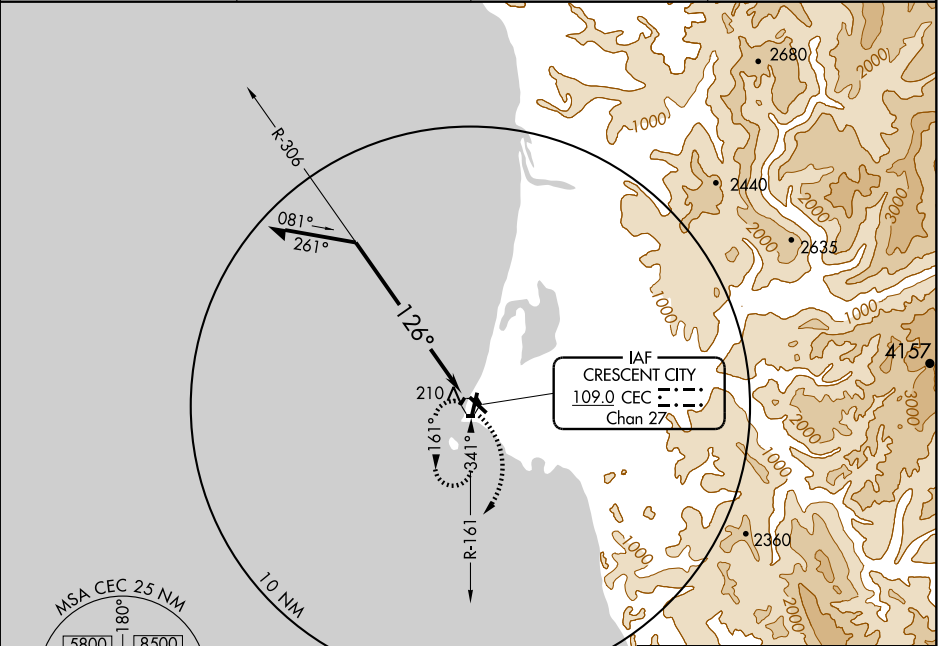
VORTAC CEC	APP CRS	Rwy Idg	5002
109.0	126°	TDZE	57
Chan 27		Apt Elev	57

VOR RWY 11

CRESCENT CITY/ JACK MC NAMARA FIELD (CEC)

Inoperative table does not apply to Cat D.	MALSR	MISSED APPROACH: Climbing right turn to 3000 via CEC R-161 then direct CEC VORTAC and hold.
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ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	
S-11	520-½ 463 (500-½)		520-¾ 463 (500-¾)	520-1½ 463 (500-1½)	HIRL Rwy 11-29 0
CIRCLING	540-1 483 (500-1)		540-1½ 483 (500-1½)	640-2 583 (600-2)	MIRL Rwy 17-35 0 REIL Rws 17, 29 and 35 0

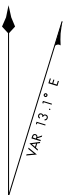
AIRPORT DIAGRAM

AL-104 (FAA)

DAGGETT/BARSTOW-DAGGETT (DAG)
DAGGETT, CALIFORNIA

ASOS
132.175
CTAF/UNICOM
123.0

34°52'N



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

2055 Δ

FIELD
ELEV
1930

FAA
FSS
BLDG

ELEV
1923

RUN UP
PAD

200
X
200

ELEV
1909

5123 X 100

037.4°

0.3% UP

0.3% UP

076.9°

6402 X 150

256.9°

ELEV
1909

34°51'N

RWY 4-22
S30, D105, ST133, DT190
RWY 8-26
S30, D170, ST175, DT320

SW-3, 14 JAN 2010 to 11 FEB 2010

116°48'W

116°47'W

APP CRS	Rwy Idg	5123
216°	TDZE	1918
	Apt Elev	1930

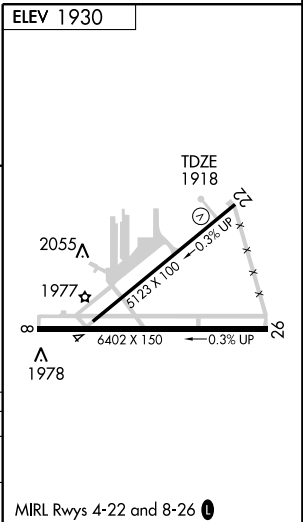
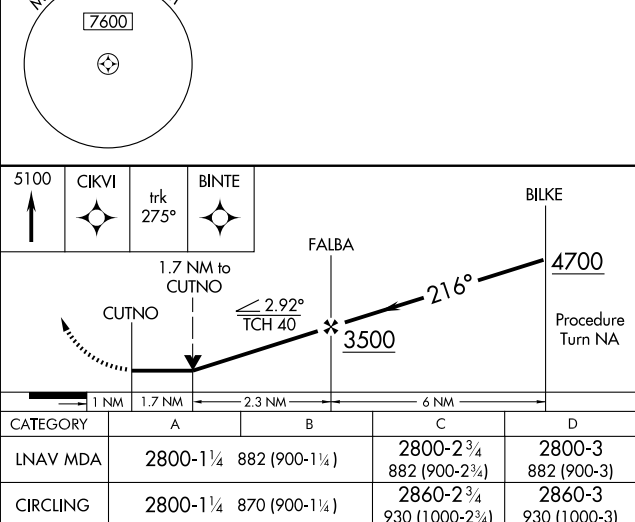
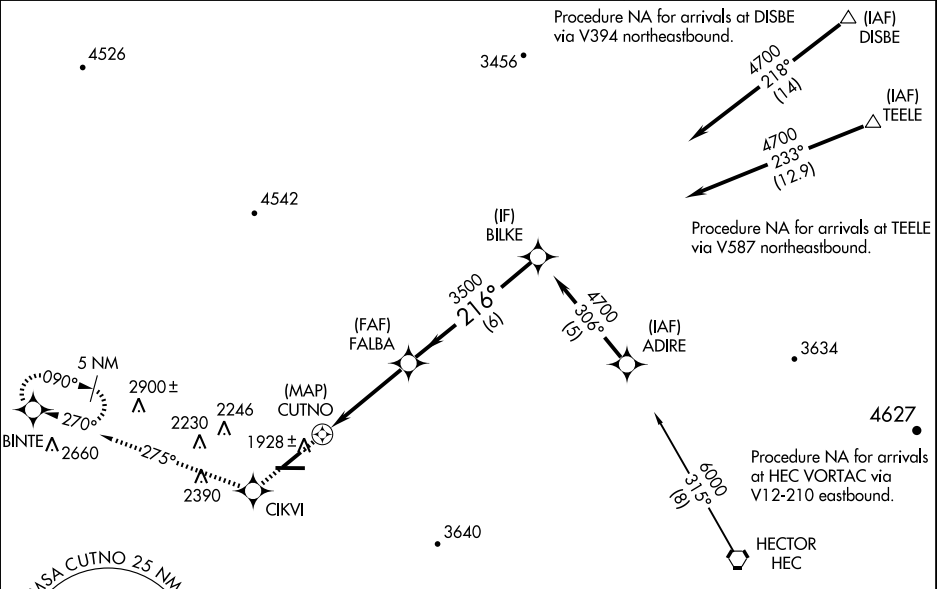
RNAV (GPS) RWY 22

DAGGETT/BARSTOW-DAGGETT (DAG)

⚠ Circling NA for Cat D south of Rwy 8-26. DME/DME RNP- 0.3 NA.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, use Victorville altimeter setting and increase all MDAs 220 feet. Increase LNAV and Circling Cat B/C visibility ¼ mile.
VDP NA when using Victorville altimeter setting.

MISSED APPROACH: Climb to 5100 direct CIKVI and via track 275° to BINTE and hold, continue climb-in-hold to 5100.

ASOS 132.175	LOS ANGELES CENTER 132.5 284.7	UNICOM 123.0 (CTAF) 0
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WAAS CH 72813 W26A	APP CRS 255°	Rwy Idg TDZE Apt Elev	6402 1918 1930
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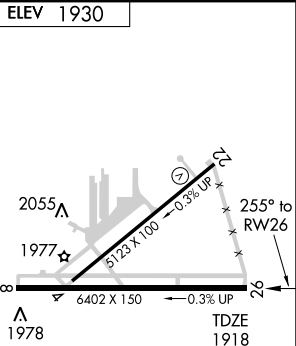
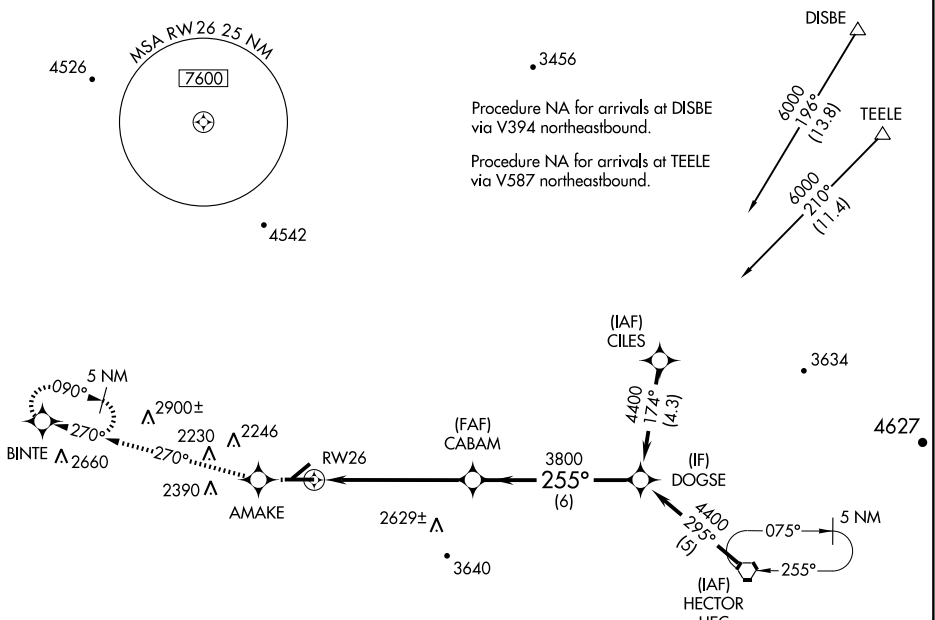
RNAV (GPS) RWY 26

DAGGETT/ BARSTOW-DAGGETT (DAG)

⚠ Circling NA for Cat D south of Rwy 8-26. DME/DME RNP- 0.3 NA.
⚠ Visibility reduction by helicopters NA. VDP NA when using Victorville altimeter setting.
When local altimeter setting not received, use Victorville altimeter setting and increase all DAs 211 feet and all MDAs 220 feet. Increase LPV all Cats visibility ¼ mile, LNAV Cat A/B ¼ mile, Cat C ¾ mile, Cat D ½ mile, Circling Cats A/B/C ¼ mile.

MISSED APPROACH: Climb to 5100 direct AMAKE and via track 270° to BINTE and hold, continue climb-in-hold to 5100.

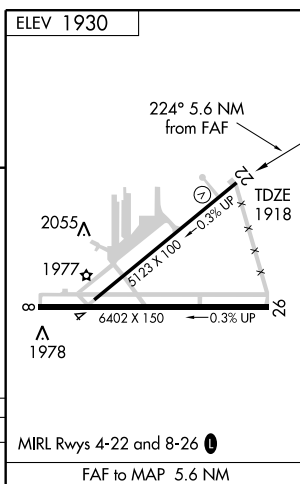
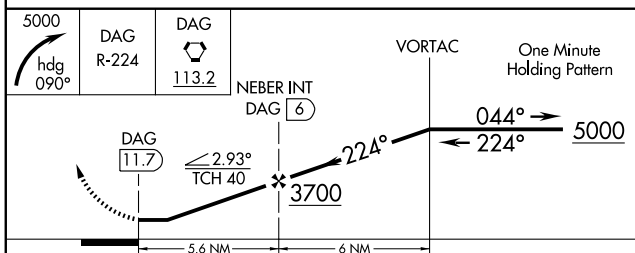
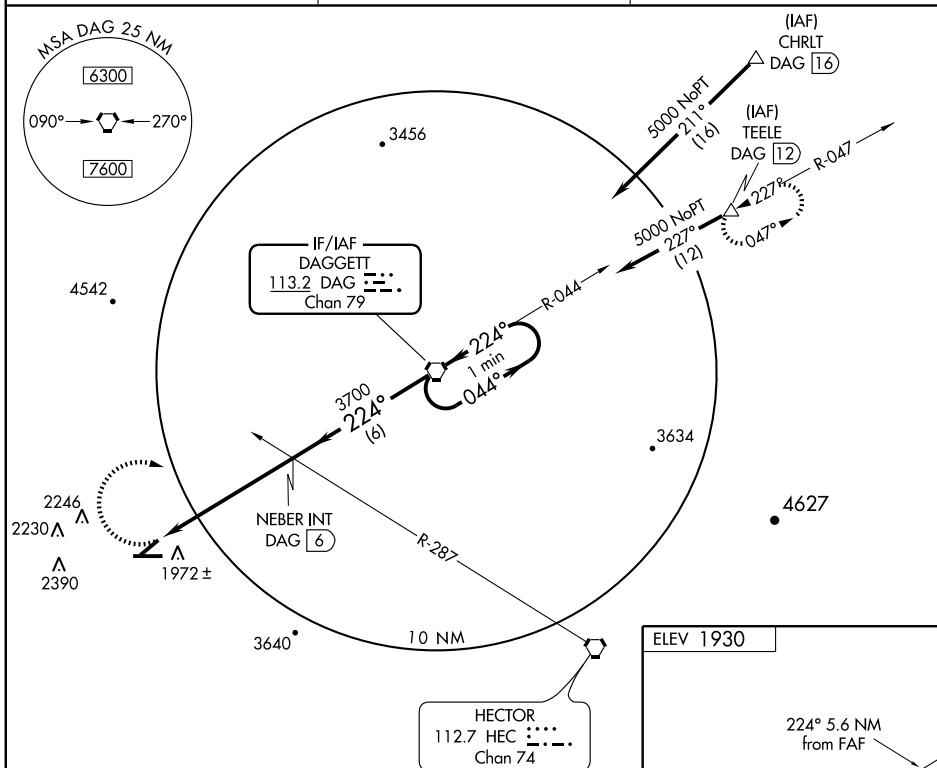
ASOS 132.175	LOS ANGELES CENTER 132.5 284.7	UNICOM 123.0 (CTAF) 0
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MIRL Rwy's 4-22 and 8-26		2.3 NM		3.4 NM		6 NM		
	CATEGORY	A		B		C		D
	LPV DA	2217-1 299 (300-1)						
	LNAV MDA	2700-1 782 (800-1)		2700-1¼ 782 (800-1¼)		2700-2¼ 782 (800-2¼)		2700-2½ 782 (800-2½)
	CIRCLING	2700-1 770 (800-1)		2780-1¼ 850 (900-1¼)		2860-2¾ 930 (1000-2¾)		2860-3 930 (1000-3)

VOR or TACAN RWY 22
DAGGETT/BARSTOW-DAGGETT (DAG)

MISSED APPROACH: Climbing right turn to 5000 via heading 090° and DAG VORTAC R-224 to DAG VORTAC and hold, continue climb-in-hold to 7500 (TACAN aircraft continue via DAG VORTAC R-047 to TEELE/12 DME and hold, continue climb-in-hold to 7500, hold NE, LT, 227° inbound).

UNICOM
123.0 (CTAF) **L**

APP CRS 167°	Rwy Idg 3176 TDZE 64 Apt Elev 69
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RNAV (GPS) RWY 17

DAVIS/UNIVERSITY (EDU)



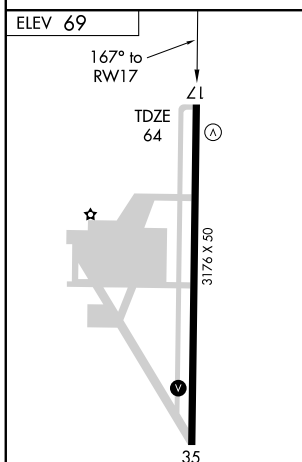
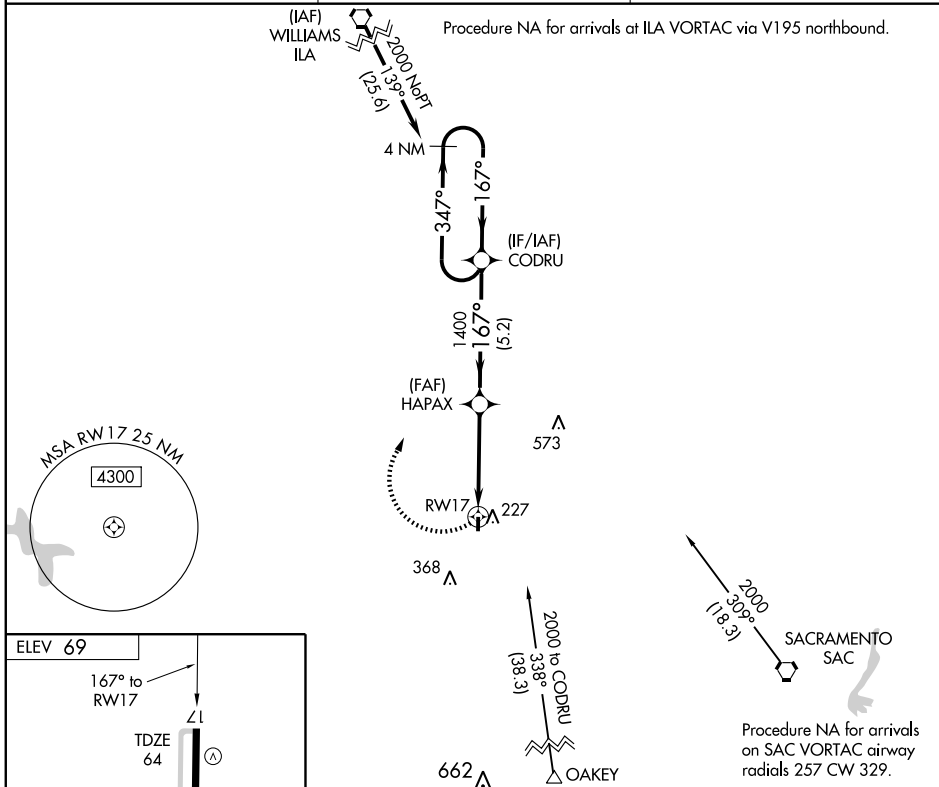
DME/DME RNP- 0.3 NA.

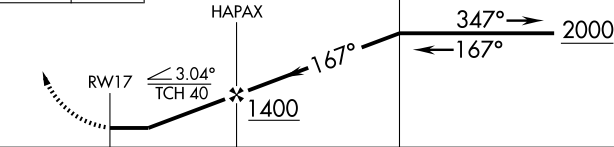
Visibility reduction by helicopters NA.

When local altimeter setting not received, use Travis AFB altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climbing right turn to 2000
direct CODRU and hold.

AWOS-3 119.025	TRAVIS APP CON 126.6 291.0	UNICOM 123.075 (CTAF) 
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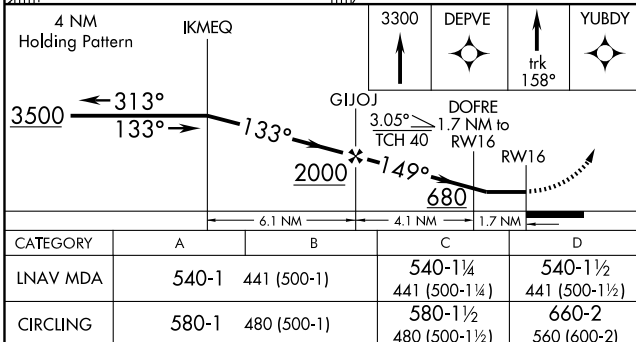


		VGSI and descent angles not coincident.		
				
CATEGORY	A	B	C	D
LNAV MDA	520-1	456 (500-1)	NA	
CIRCLING	580-1	511 (600-1)	NA	

DAVIS/WOODLAND/WINTERS/ YOLO COUNTY (DWA)

- MISSED APPROACH:** Climb to 3300 direct DEPVE and via track 158° to YUBDY and hold, continue climb-in-hold to 3300.

UNICOM
123.0 (CTAF) **L**



APP CRS	Rwy Idg	6000
334°	TDZE	100
	Apt Elev	100

RNAV (GPS) RWY 34

DAVIS/WOODLAND/WINTERS/ YOLO COUNTY (DWA)

▽

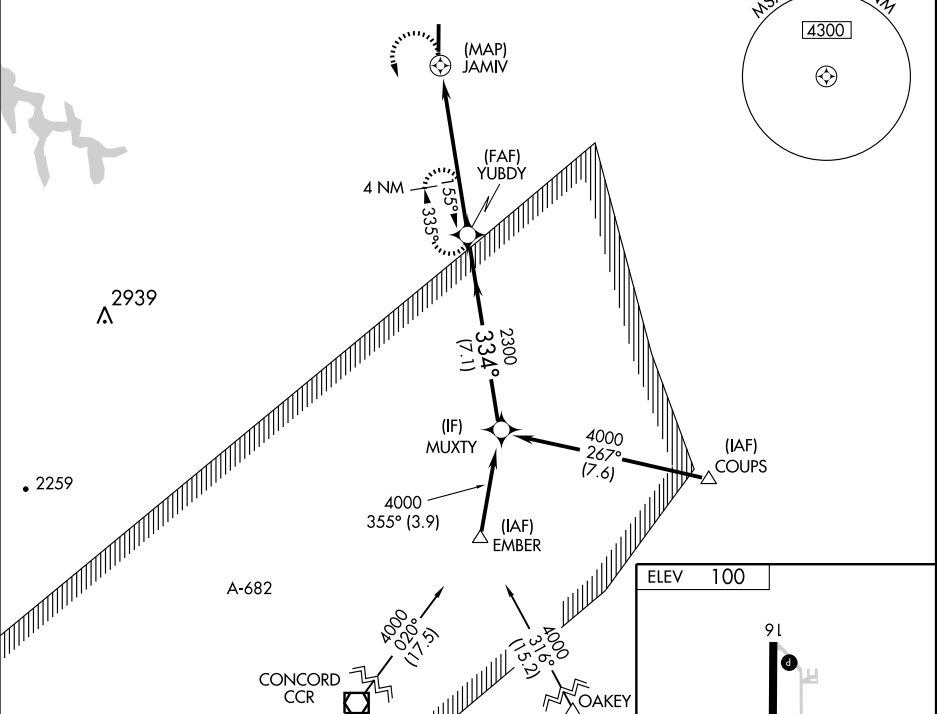
▲

DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Travis AFB altimeter setting and increase all MDA 60 feet, and increase LNAV Cats C and D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 3300 direct YUBDY and hold, continue climb-in-hold to 3300.

AWOS-3 125.775	TRAVIS APP CON 126.6 291.0	UNICOM 123.0 (CTAF)
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Procedure NA for arrivals at OAKEY via V334-392 southbound, and arrivals at COUPS via V6 northeast bound.



3300

YUBDY

JAMIV

YUBDY

MUXTY

4000

334°

2300

3.05°

TCH 40

0.5

6.2 NM

7.1 NM

Procedure Turn NA

CATEGORY	A	B	C	D
LNAV MDA	580-1	480 (500-1)	580-1½ 480 (500-1½)	580-1½ 480 (500-1½)
CIRCLING	580-1	480 (500-1)	580-1½ 480 (500-1½)	660-2 560 (600-2)

ELEV 100

91

6000 X 100

TDZE 100

34

MRL Rwy 16-34

GPS RWY 32

DELANO MUNI (DLO)

APP CRS	Rwy Idg	5651
320°	TDZE	313
	Apt Elev	314

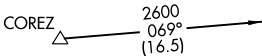
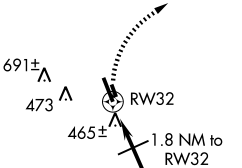
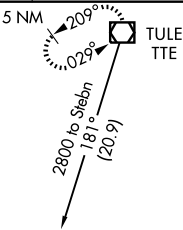
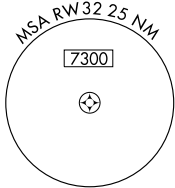
NA Circling not authorized Southwest of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 3000 direct TTE VOR/DME and hold.

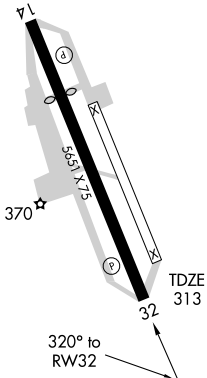
AWOS-3
119.55

BAKERSFIELD APP CON ★
118.9

UNICOM
122.8 (CTAF) 0

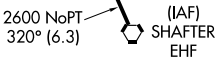


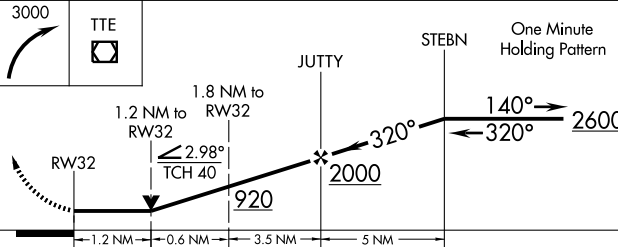
ELEV 314 Rwy 14 Idg 4011'



MIRL Rwy 14-32 0
REIL Rws 14 and 32

NoPT for arrivals EHF VORTAC
airway radials 123 CW 196



				 Diagram details: The diagram shows a flight path starting from a solid line, curving left (indicated by a dashed arrow), then turning right to a horizontal segment labeled 'RW32'. From 'RW32', the path continues horizontally for 1.2 NM, then turns right 2.98° (TCH 40) for 0.6 NM to a point labeled '1.8 NM to RW32'. From there, it turns right 320° for 3.5 NM to a point marked with an 'X' and labeled '2000'. From the 'X', it turns right 140° for 5 NM to a point labeled 'JUTTY'. From 'JUTTY', it turns left 320° for 5 NM to a point labeled 'STEBN'. Finally, it turns right 140° for 1 NM to a point labeled '2600'. A 'One Minute Holding Pattern' is indicated at the end of the path.					
CATEGORY		A						B	
S-32		720-1 407 (500-1)				720-1¼ 407 (500-1¼)			
CIRCLING		760-1 446 (500-1)		780-1 466 (500-1)		780-1½ 466 (500-1½)		880-2 566 (600-2)	

VORTAC EHF	APP CRS	Rwy Idg	5651
115.4	322°	TDZE	313
Chan 101		Apt Elev	314

VOR RWY 32
DELANO MUNI (DLO)

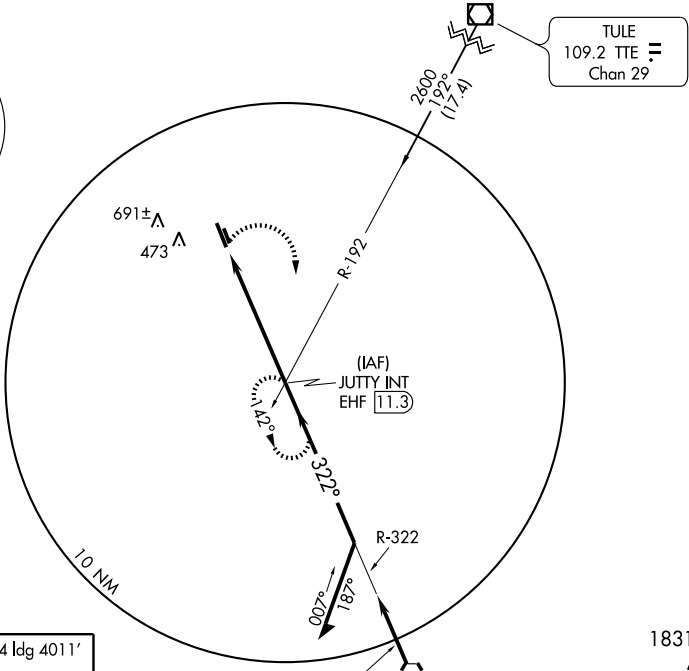
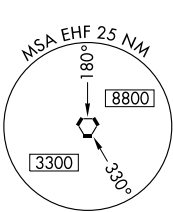
Circling not authorized Southwest of Rwy 14-32.
 NA

MISSED APPROACH: Climbing right turn to 2000 via EHF R-322 to JUTTY Int and hold.

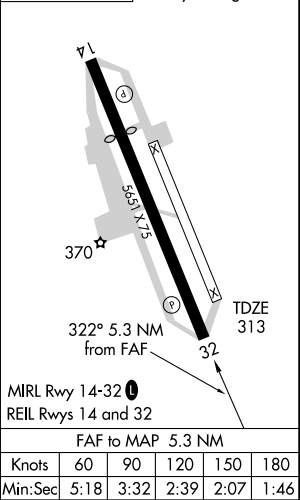
AWOS-3
119.55

BAKERSFIELD APP CON ★
118.9

UNICOM
122.8 (CTAF) 0



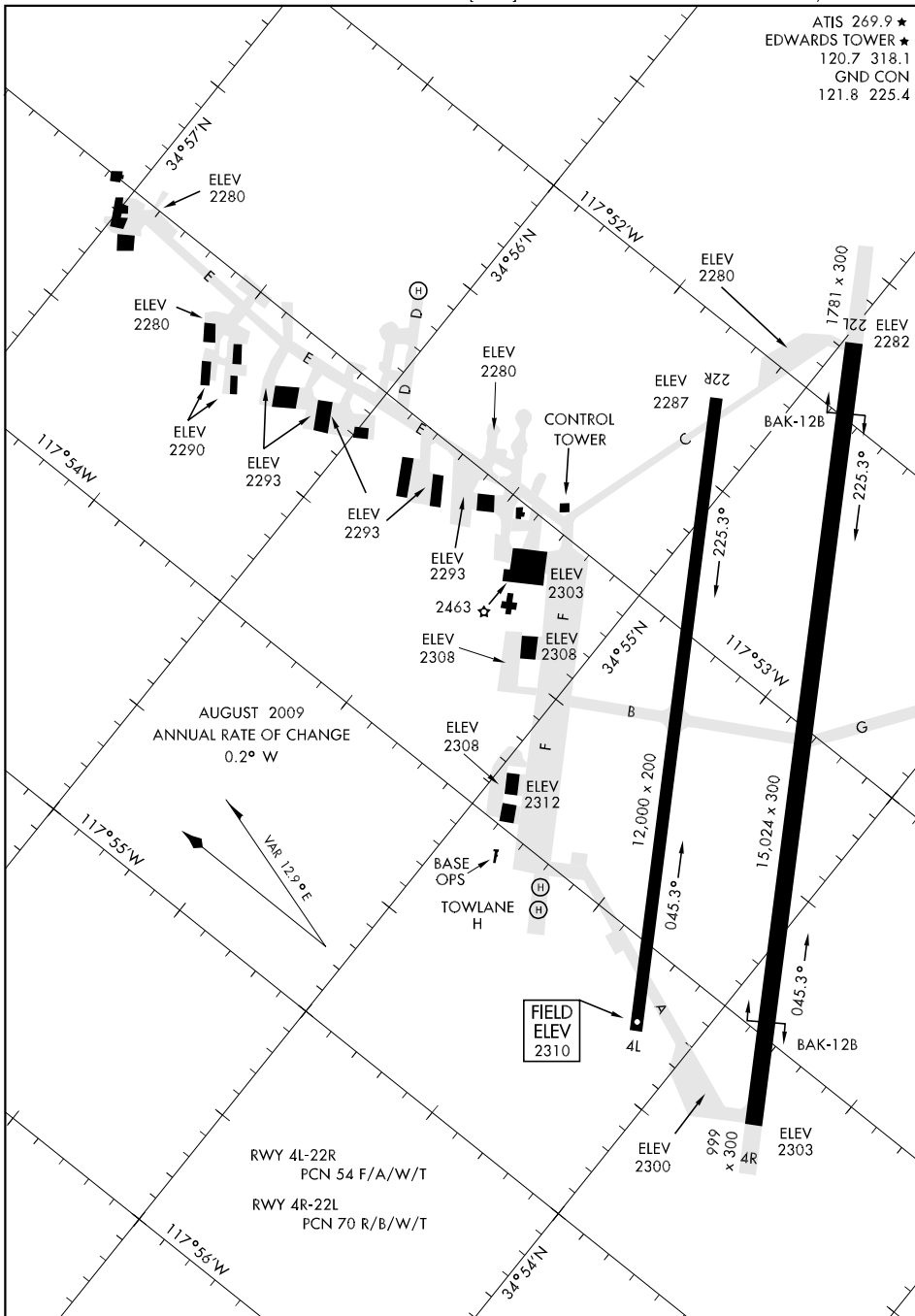
ELEV 314 Rwy 14 Idg 4011'



2000 EHF R-322	JUTTY INT	JUTTY INT EHF 11.3	Remain within 10 NM	
		2000	142°	2400
EHF 15		EHF 16.6	2.94° TCH 40	
CATEGORY	A	B	C	D
S-32	860-1	547 (600-1)	860-1½ 547 (600-1½)	860-1¾ 547 (600-1¾)
CIRCLING	860-1	546 (600-1)	860-1½ 546 (600-1½)	880-2 566 (600-2)

ATIS 269.9 ★
EDWARDS TOWER ★
120.7 318.1
GND CON
121.8 225.4

SW-3, 14 JAN 2010 to 11 FEB 2010



AUGUST 2009
ANNUAL RATE OF CHANGE
0.2° W

RWY 4L-22R
PCN 54 F/A/W/T
RWY 4R-22L
PCN 70 R/B/W/T

ATIS ★		
269.6		
SPORT APP CON	132.75	343.7
EDWARDS TOWER ★		
120.7	318.1	
GND CON	121.8	225.4

34°-59'N

34° 58'N
COMPASS ROSE 2000' RADIUS
LANDING ANY DIRECTION

34°-57'N

Pad 18
Lakebed Exit

CONTROL
TOWER

BASE OPS

FIELD
ELEV
2310

RWY 4L-22R
PCN 54 F/A/W/T
RWY 4R-22L
PCN 70 R/B/W/T
RWY 6-24
PCN 6 R/D/W/T

OCTOBER 2009
ANNUAL RATE OF CHANGE
0.28W

Rwy 33 Threshold displacement
7500': LDA 21,987'.
Last 1000' of Rwy 15 unusable due to
obstructions on the runway.

PAPI lights physically located on the Rwy 7500' and 6500' prior to the Rwy 33 displaced threshold and Rwy 22L threshold.

HORIZONTAL ACCURACY
MAY EXCEED 600'

AIRPORT DIAGRAM

EDWARDS, CALIFORNIA
PS LAKERED (KEDWA)

LQC I-EDW
110.1

APCH CRS
224°

Rwy Idg	15,024
TDZE	2285
Arpt Elev	2310

JAL-500 [USAF]

EDWARDS AFB (KEDW)

T * Circling not authorized NW of Rwy 4R-22L.

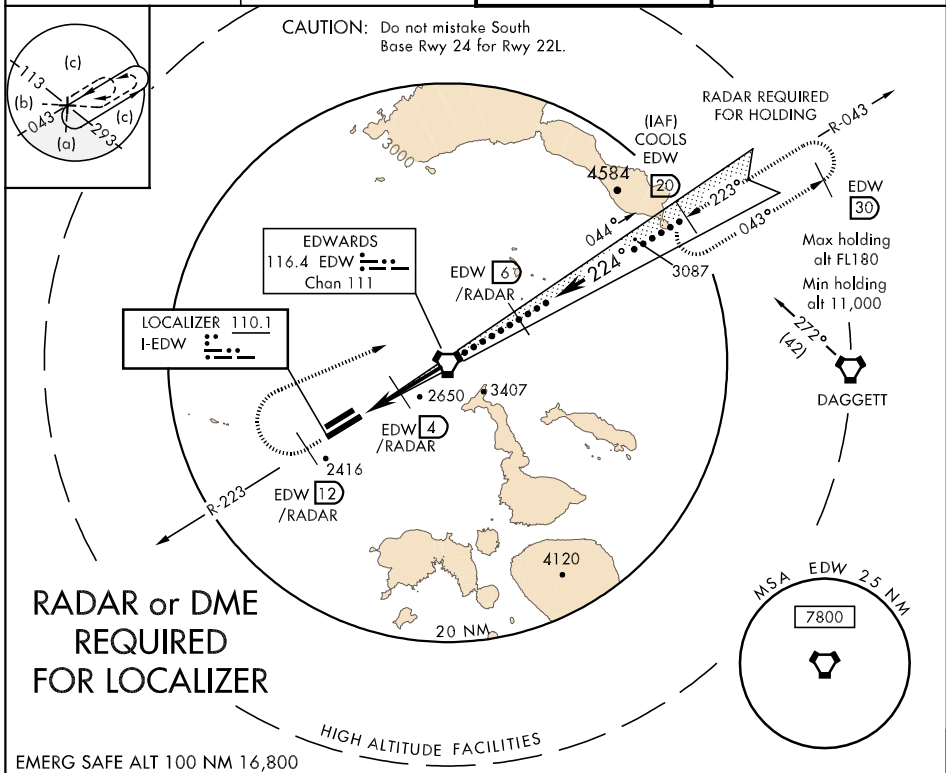
MISSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/20 DME (COOLS) and hold. Maintain 11,000.

ATIS ★
269.9

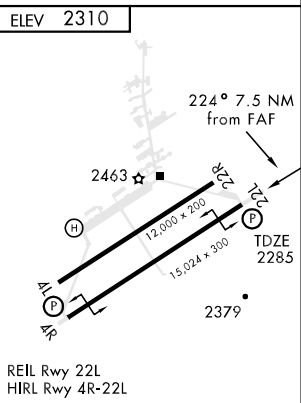
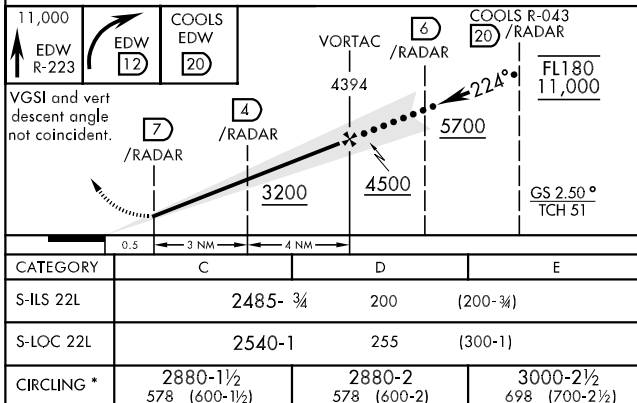
SPORT APP CON
132.75 343.7

EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EMERG SAFE ALT 100 NM 16,800



VORTAC EDW
116.4
Chan 111

APCH CRS
043°

Rwy Idg 15,024
TDZE 2298
Arpt Elev 2310

JAL-500 [USAF]

EDWARDS AFB (KEDW)



* Circling not authorized NW of Rwy 4R-22L.

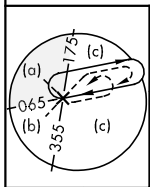
MISSED APPROACH: Track EDW VORTAC R-223 to EDW.
Intercept EDW R-065 to 20 DME and hold. Maintain 15,000.

ATIS ★
269.9

SPORT APP CON
132.75 343.7

EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EDWARDS
116.4 EDW
Chan 111

CAUTION: Do not mistake
South Base Rwy 6
for Rwy 4R.

RADAR REQUIRED
FOR HOLDING

Max holding
alt FL180
Min holding
alt 15,000

EDW
30

065° R-065

245°

(IAF)
ENILE
EDW 20
FL180
15,000

262°
136°

DAGGETT

EDW 10
/RADAR

EDW 21
/RADAR

2610

2401

EDW 21
/RADAR

EDW 15
/RADAR

MUDTY
EDW 13

2472

2650

3407

243°

243°

243°

243°

243°

243°

243°

243°

243°

243°

243°

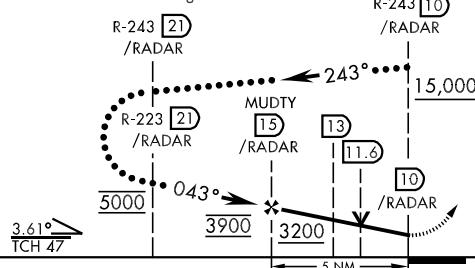
EMERG SAFE ALT 100 NM 16,800

HIGH ALTITUDE FACILITIES

MSA EDW 2.5 NM

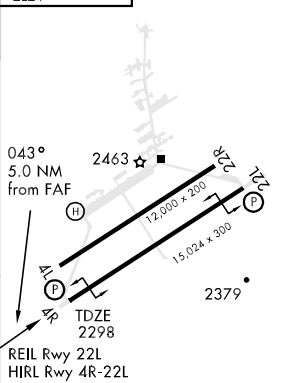
7800

VGSI and vert descent angle not coincident.



15,000
EDW
R-223

ELEV 2310



CATEGORY	C	D	E
S-4R	2860-1½ 562 (600-1½)	2860-1¾ 562 (600-1¾)	2860-2 562 (600-2)
CIRCLING *	2880-1½ 578 (600-1½)	2880-2 578 (600-2)	3000-2½ 698 (700-2½)

VORTAC EDW 116.4 Chan 111	APCH CRS 223°	Rwy Idg TDZE Arpt Elev	15,024 2285 2310
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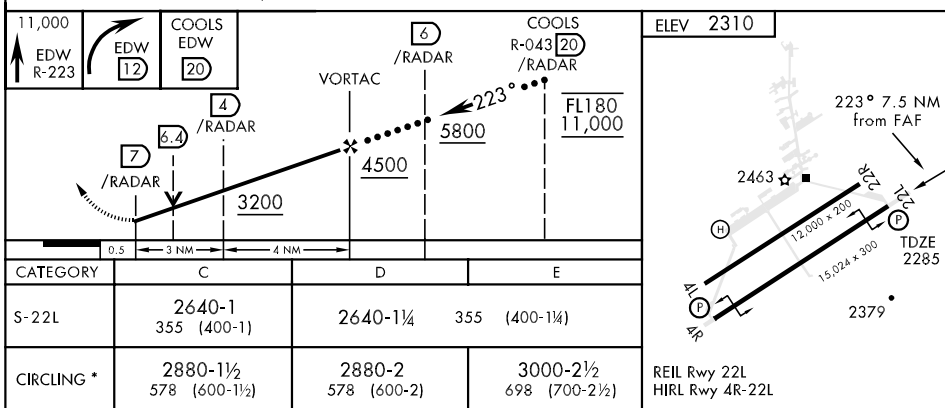
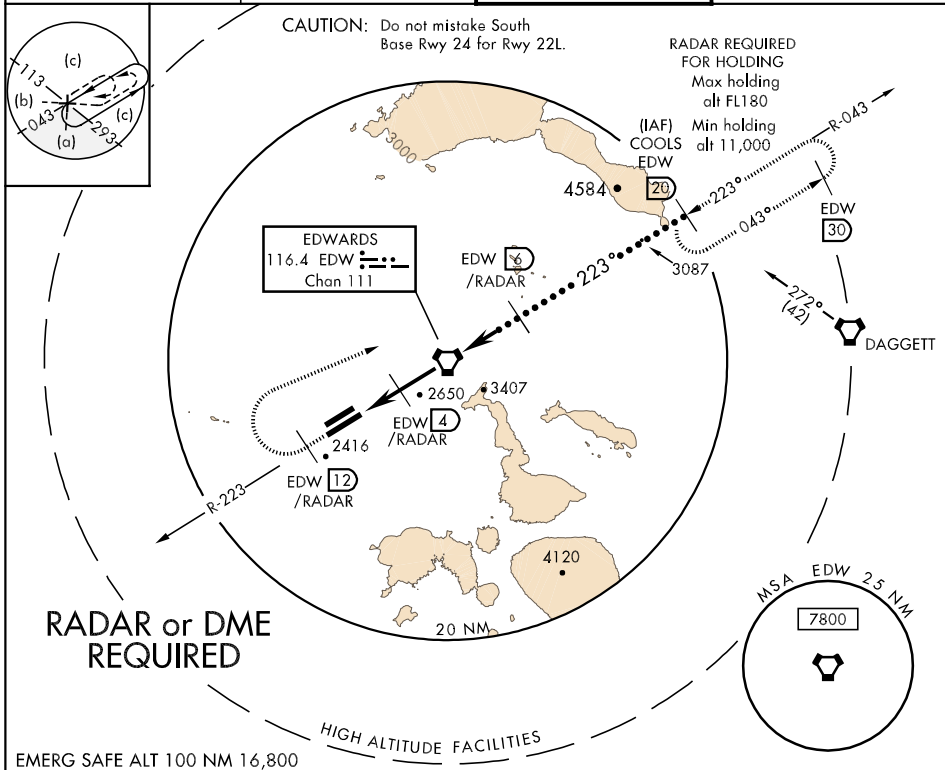
JAL-500 [USAF]

EDWARDS AFB (KEDW)

▼ * Circling not authorized NW of Rwy 4R-22L.

MISSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/20 DME (COOLS) and hold. Maintain 11,000.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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LOC I-EDW 110.1	APCH CRS 224°	Rwy Idg TDZE Arpt Elev 15,024 2285 2310
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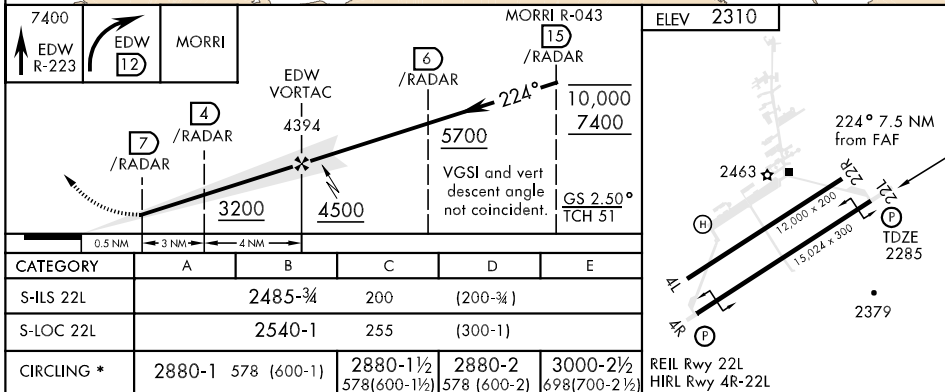
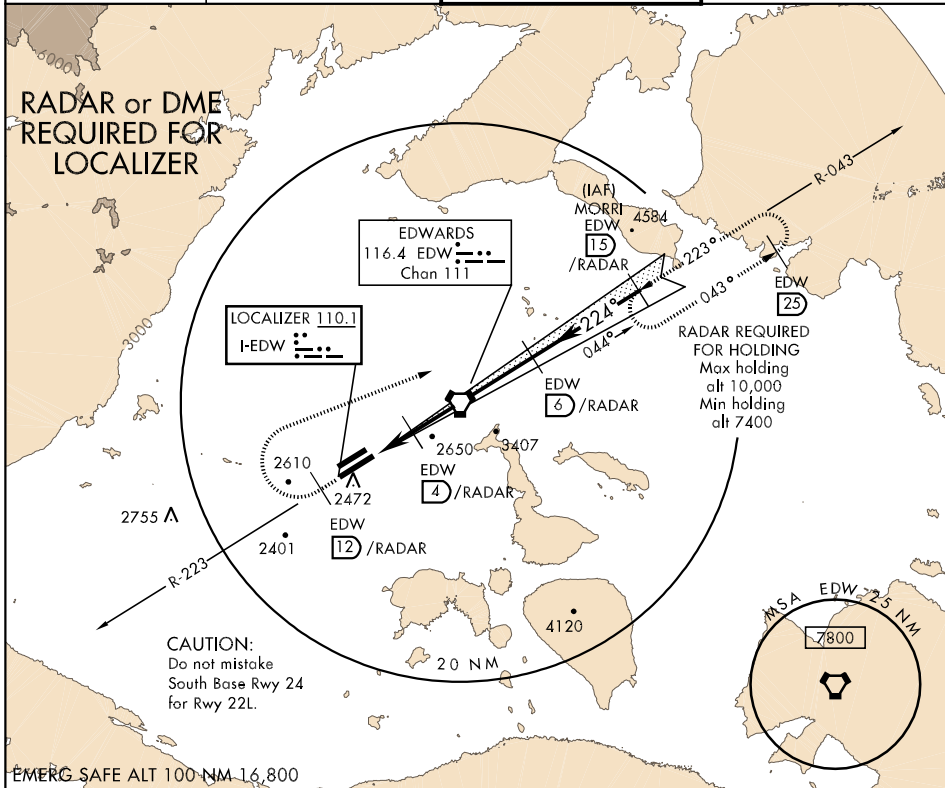
AL-500 [USAF]

EDWARDS AFB (KEDW)

MISSSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/15 DME and hold. Maintain 7400.

*Circling not authorized NW of Rwy 4R-22L.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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APCH CRS **044°** Rwy Idg **15,024**
 TDZE **2298**
 Arpt Elev **2310**

AL-500 [USAF]

EDWARDS AFB (KEDW)



* Circling not authorized NW of Rwy 4R-22L.

DME/DME RNP-0.3 NA

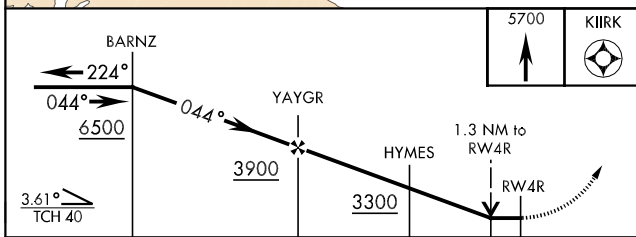
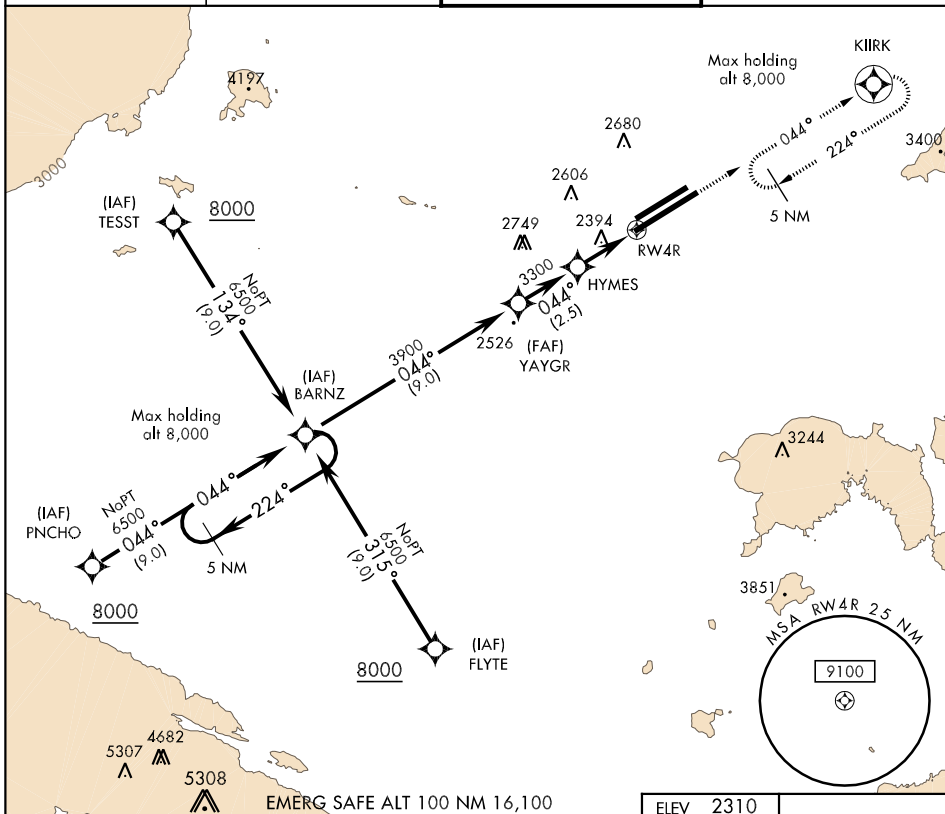
MISSED APPROACH: Proceed direct to KIIRK waypoint and hold.
 Maintain 5700.

ATIS ★
269.9

SPORT APP CON
132.75 343.7

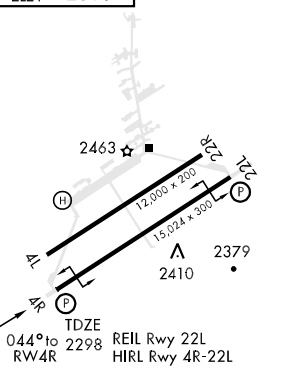
EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



ELEV 2310

CATEGORY	A	B	C	D	E
LNAV MDA	2840-1 542 (600-1)		2840-1½ 542 (600-1½)	2840-1½ 542 (600-1½)	2840-1½ 542 (600-1½)
CIRCLING *	2880-1 568 600-1)		2880-1½ 568 (600-1½)	2880-2 568 (600-2)	3000-2½ 688 (700-2½)



APCH CRS **224°**
 Rwy Idg **15,024**
 TDZE **2285**
 Arpt Elev **2310**

AL-500 [USAF]

EDWARDS AFB (KEDW)



* Circling not authorized NW of Rwy 4R-22L.

DME/DME RNP-0.3 NA

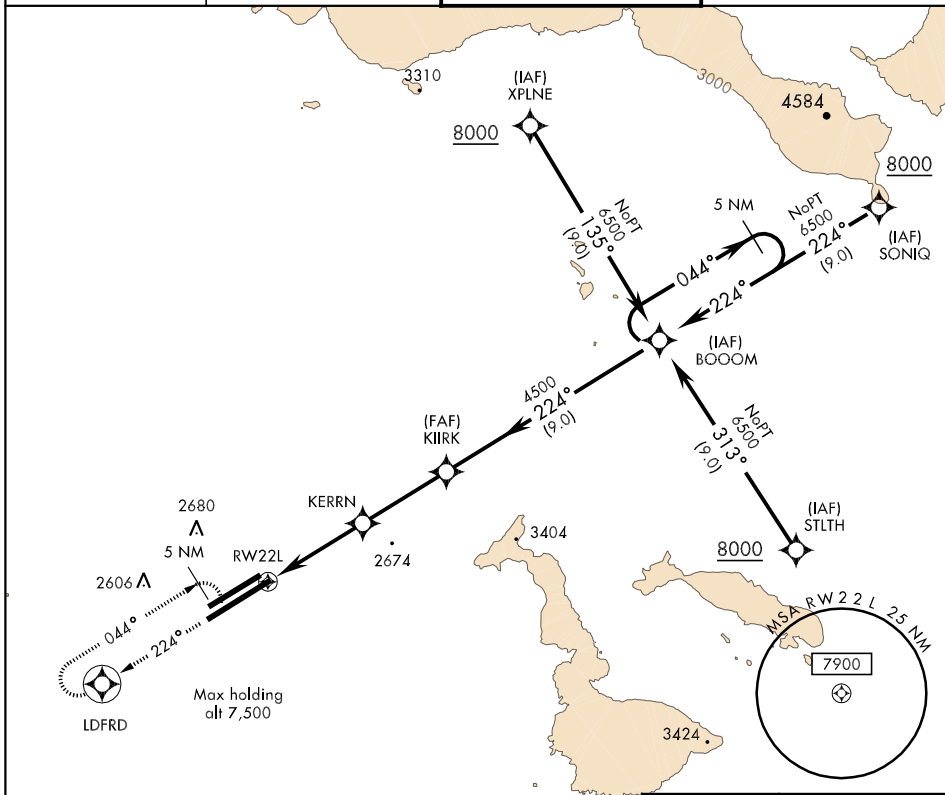
MISSED APPROACH: Proceed direct to LDFRD waypoint and hold.
 Maintain 5700.

ATIS ★
269.9

SPORT APP CON
132.75 343.7

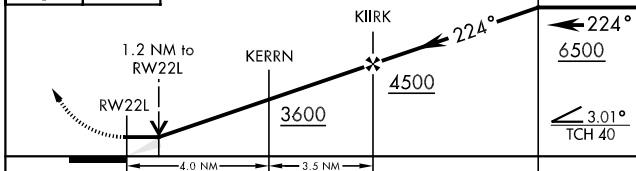
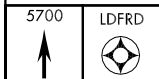
EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4

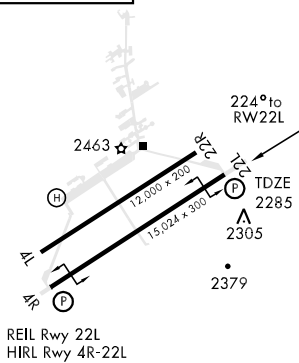


EMERG SAFE ALT 100 NM 16,100

ELEV 2310



CATEGORY	A	B	C	D	E
LNAV MDA	2700-3/4 415 (400-3/4)		2700-1 415 (400-1)		2700-1 1/4 415 (400-1 1/4)
CIRCLING *	2880-1 568 (600-1)		2880-1 1/2 568 (600-1 1/2)	2880-2 568 (600-2)	3000-2 1/2 688 (700-2 1/2)



VORTAC EDW
116.4
 Chan **111**

APCH CRS
046°

Rwy Idg **12,000**
 TDZE **2312**
 Arpt Elev **2310**

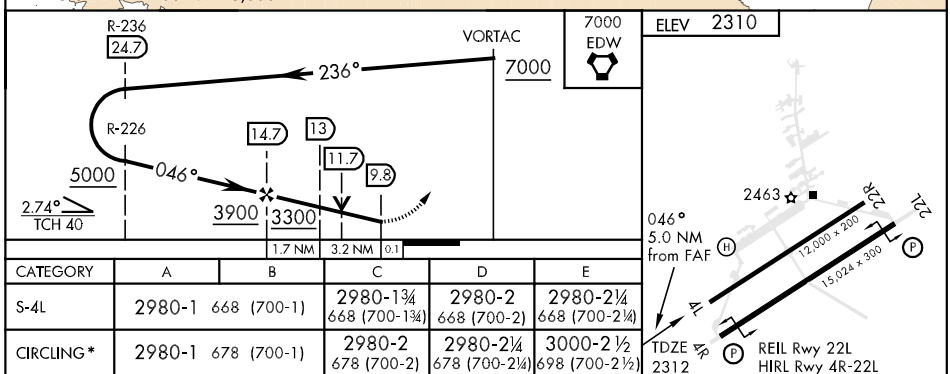
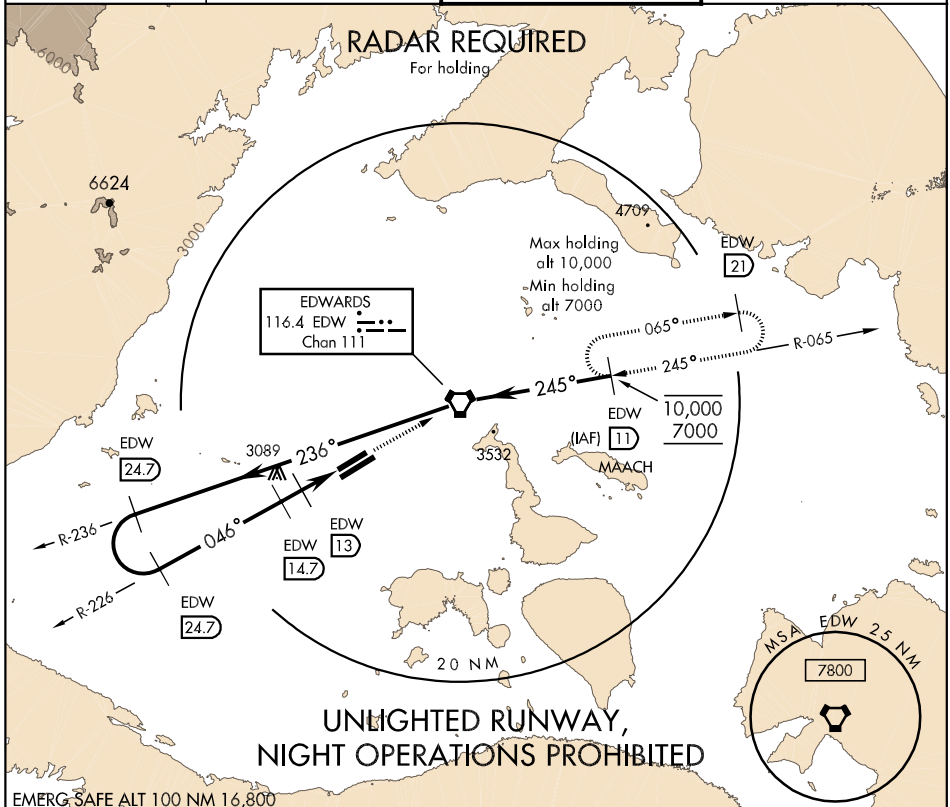
AL-500 [USAF]

EDWARDS AFB (KEDW)

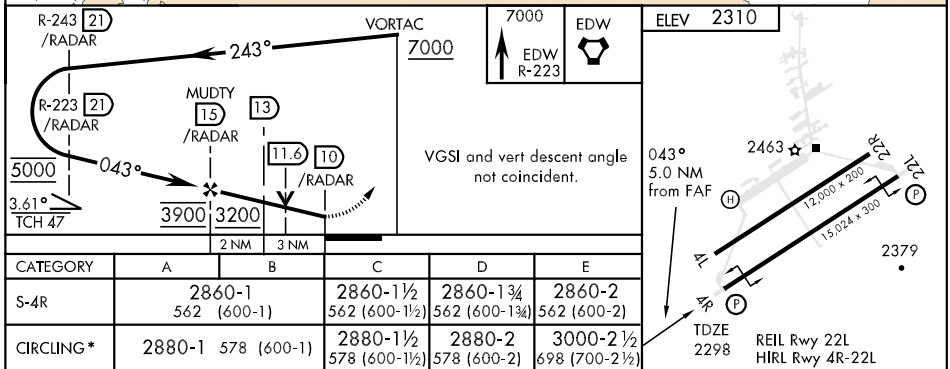
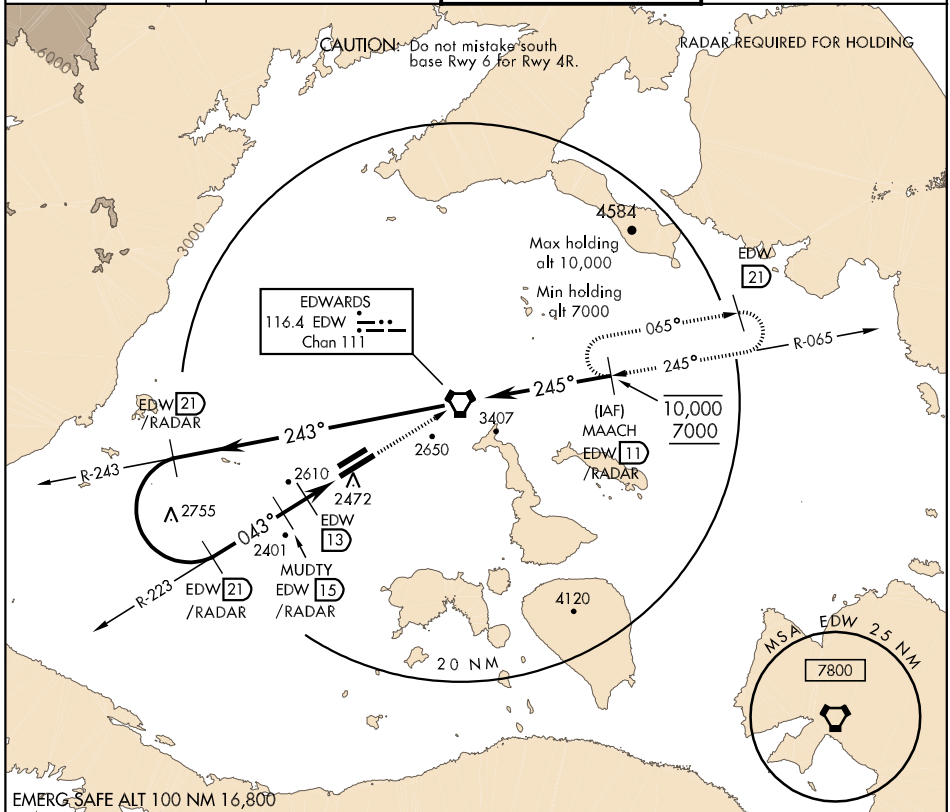
▼ * Circling not authorized NW of Rwy 4L-22R.
 Circling NA at night to Rwy 22R.

MISSED APPROACH: Proceed direct EDW VORTAC, then intercept EDW
 R-065 to EDW 11 DME and hold. Maintain 7000.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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VORTAC EDW 116.4 Chan 111		APCH CRS 043°	Rwy Idg 15,024 TDZE 2298 Arpt Elev 2310	AL-500 [USAF]		EDWARDS AFB (KEDW)	
▼ * Circling not authorized NW of Rwy 4R-22L.				MISSED APPROACH: Track EDW VORTAC R-223 to EDW. Intercept EDW R-065 to 11 DME and hold. Maintain 7000.			
ATIS ★ 269.9		SPORT APP CON 132.75 343.7		EDWARDS TOWER ★ 120.7 318.1		GND CON 121.8 225.4	



VORTAC EDW 116.4 Chan 111	APCH CRS 223°	Rwy Idg 15,024 TDZE 2285 Arpt Elev 2310
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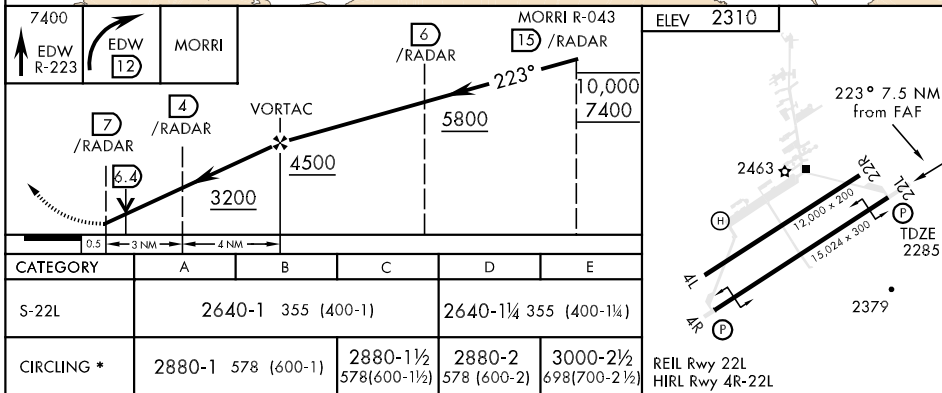
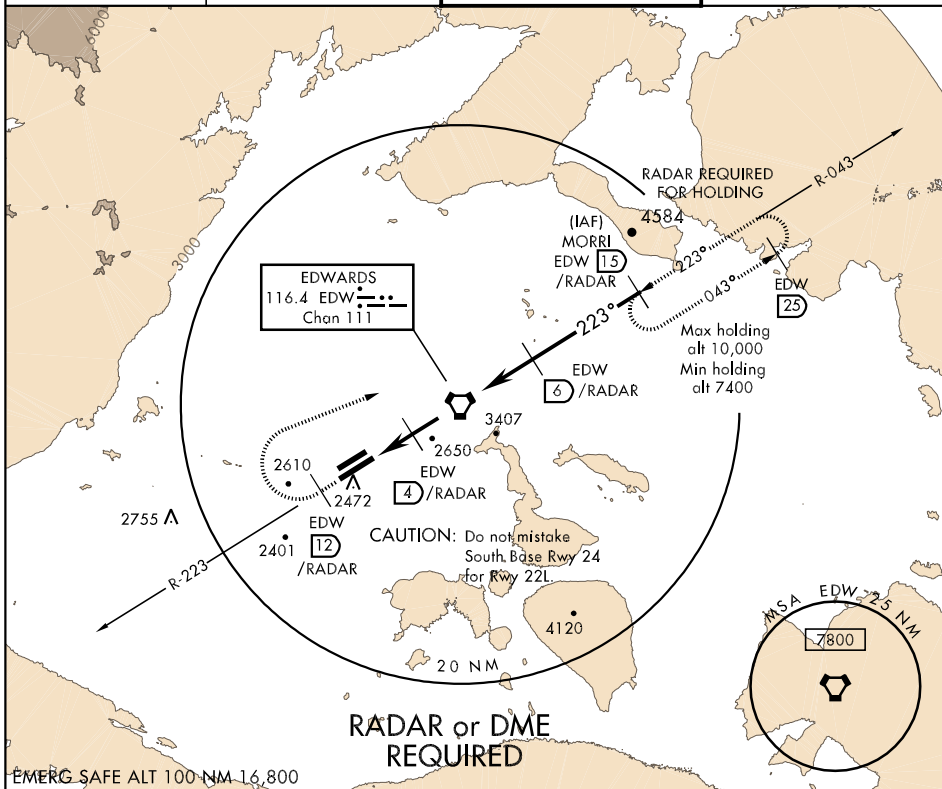
AL-500 [USAF]

EDWARDS AFB (KEDW)

▼ *Circling not authorized NW of Rwy 4R-22L.

MISSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/15 DME and hold. Maintain 7400.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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VORTAC EDW
116.4
Chan 111

APCH CRS
226°

Rwy Idg 12,000
TDZE 2292
Arpt Elev 2310

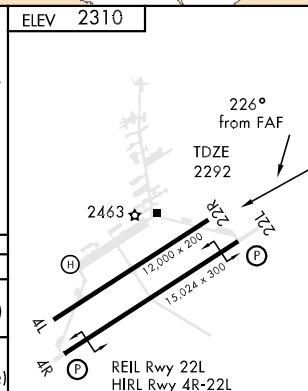
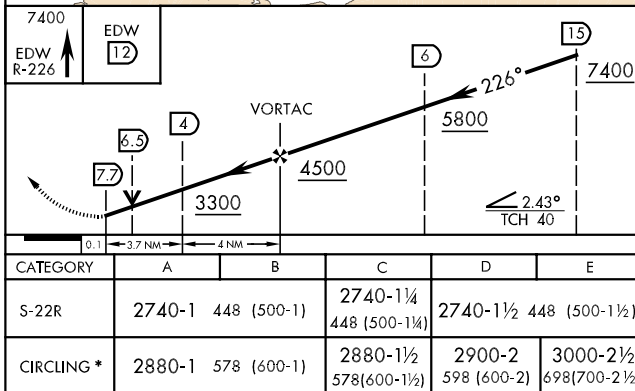
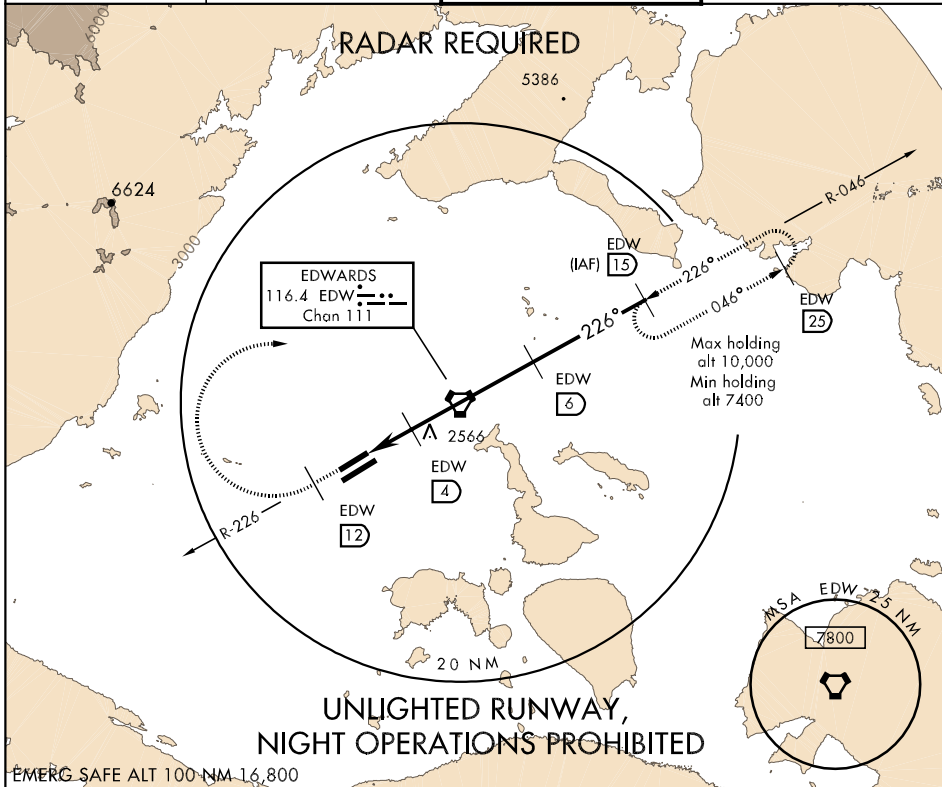
AL-500 [USAF]

EDWARDS AFB (KEDW)

▼ *Circling not authorized NW of Rwy 4L-22R.
Circling NA at night to Rwy 4L.

MISSED APPROACH: Track EDW VORTAC R-226 outbound. At EDW 12 DME turn right direct EDW R-046/15 DME and hold. Maintain 7400.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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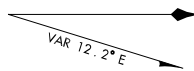
AIRPORT DIAGRAM

AFD-472 [USN]

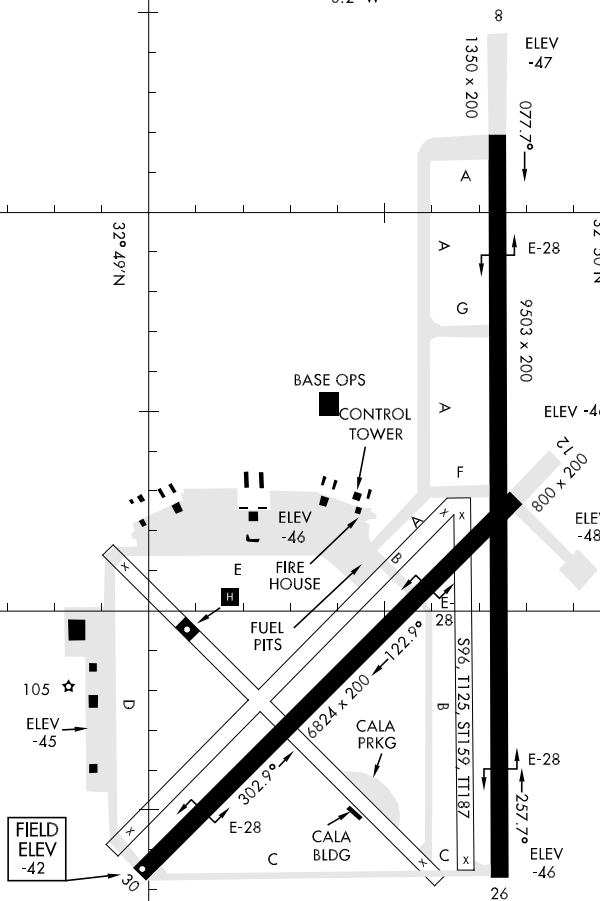
EL CENTRO, CALIFORNIA

ATIS ★ 269.275
EL CENTRO TOWER ★
119.1 360.2
GND CON
121.9 254.35
METRO 348.3
CLNC DEL
340.2

DECEMBER 2007
ANNUAL RATE OF CHANGE
0.2°W



SW-3, 14 JAN 2010 to 11 FEB 2010



AIRPORT DIAGRAM

EL CENTRO, CALIFORNIA

EL CENTRO NAF (KNJK)

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000, intercept NJK TACAN R-084 to HATPI and hold.

CAUTION:
Extensive civil aircraft
operations at Imperial
County airport.

R-2510

759 A

IMPERIAL COUNTY

WEGOB NJK [4]

HATPI NJK [6]

FAPUM NJK [12]

IMPERIAL NJK [11]

BARD

(IAF) SATVE NJK [23]

Max holding
230 KIAS
Max holding
alt 14,000

NJK [31]

084°

264°

12,000

067°

295

12,000

258°

(32)

R-084

EL CENTRO
Chan 47 NJK

UNITED STATES
MEXICO

A 576

20 NM

CAUTION:
Do not overfly the US-Mexican border.

HIGH ALTITUDE FACILITIES

EMERG SAFE ALT 100 NM 13,600

MSA NJK 2.5 NM

1800

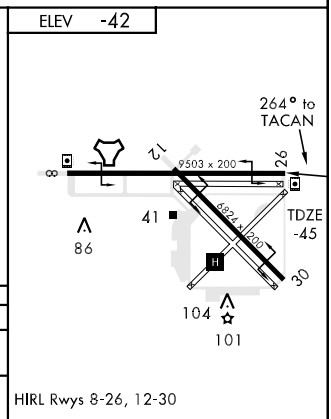
6600

125°

305°

SW-3, 14 JAN 2010 to 11 FEB 2010

EMERG SAFE ALT 100 NM 13,600



EL CENTRO NAF (KNJK)

Amdt 1 09127

ATIS ★ 269.275
CLNC DEL 340.2
GND CON
121.9 254.35
EL CENTRO TOWER ★
119.1 360.2
LOS ANGELES CENTER
128.6 291.7

This SID requires 2100 ft ceiling and 2½ miles
visibility for climb in visual conditions.

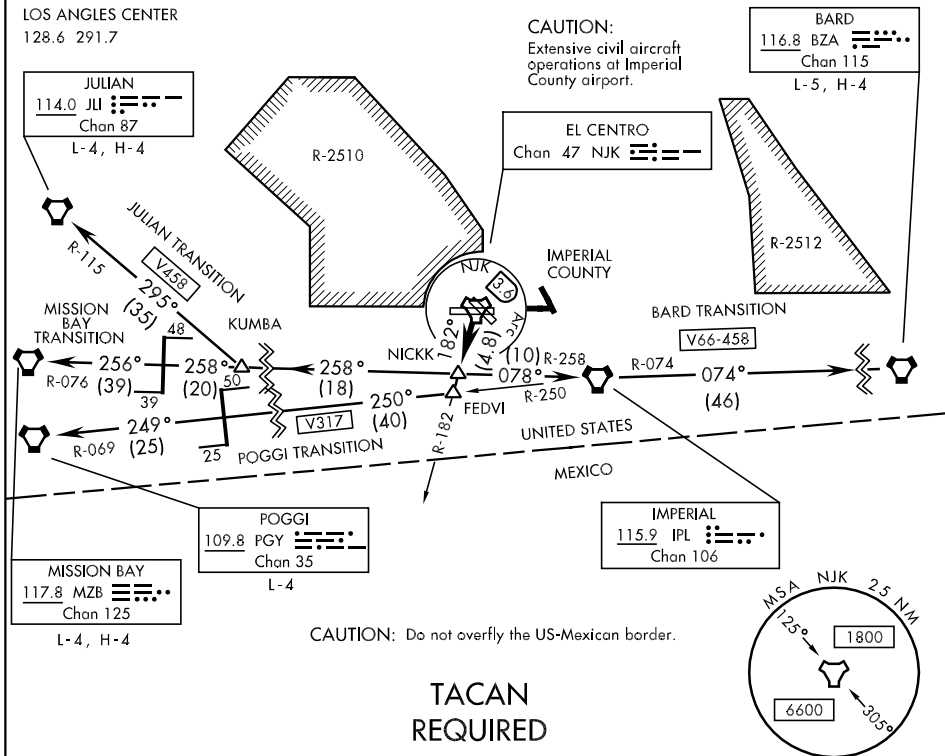
Minimum Climb Rate of 360 ft/NM for Eastbound departures.
Minimum Climb Rate of 440 ft/NM for Westbound departures.

CAUTION:
Extensive civil aircraft
operations at Imperial
County airport.

BARD
116.8 BZA ≡≡≡
Chan 115
L-5, H-4

JULIAN
114.0 JLI ≡≡≡
Chan 87
L-4, H-4

EL CENTRO
Chan 47 NJK ≡≡≡



CAUTION: Do not overfly the US-Mexican border.

TACAN
REQUIRED

EMERG SAFE ALT 100 NM 13,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb in visual conditions within 3.6 DME of NJK TACAN to cross NJK TACAN Southbound at or above 2000, then climb on NJK R-182 to NICKK. Then via assigned transition or route. Expect filed altitude 10 minutes after departure. Cross NICKK at or below 7000.

BARD TRANSITION (NICKK1•BZA): Via IPL VORTAC R-258 to IPL, then via IPL R-074 to BARD VORTAC.

JULIAN TRANSITION (NICKK1•JLI): From over NICKK via IPL VORTAC R-258 to KUMBA, then via JLI VORTAC R-115 to JLI. Cross KUMBA at or above 5600 climbing to 7700.

MISSION BAY TRANSITION (NICKK1•MZB): From over NICKK via IPL VORTAC R-258 and MZB VORTAC R-076 to MZB. Cross KUMBA at or above 6700 climbing to 8000.

POGGI TRANSITION (NICKK1•PGY): From over NICKK continue climb to 7000 via NJK R-182 to FEDVI, then via IPL VORTAC R-250 and PGY VORTAC R-069 to PGY.

APCH CRS
257°

Rwy Idg
TDZE
Arpt Elev
**9503
-45
-42**

AL-472 [USN]

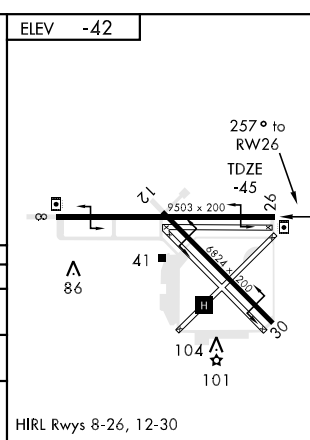
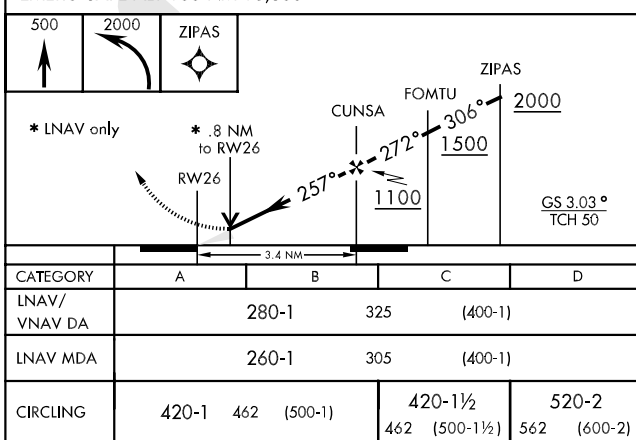
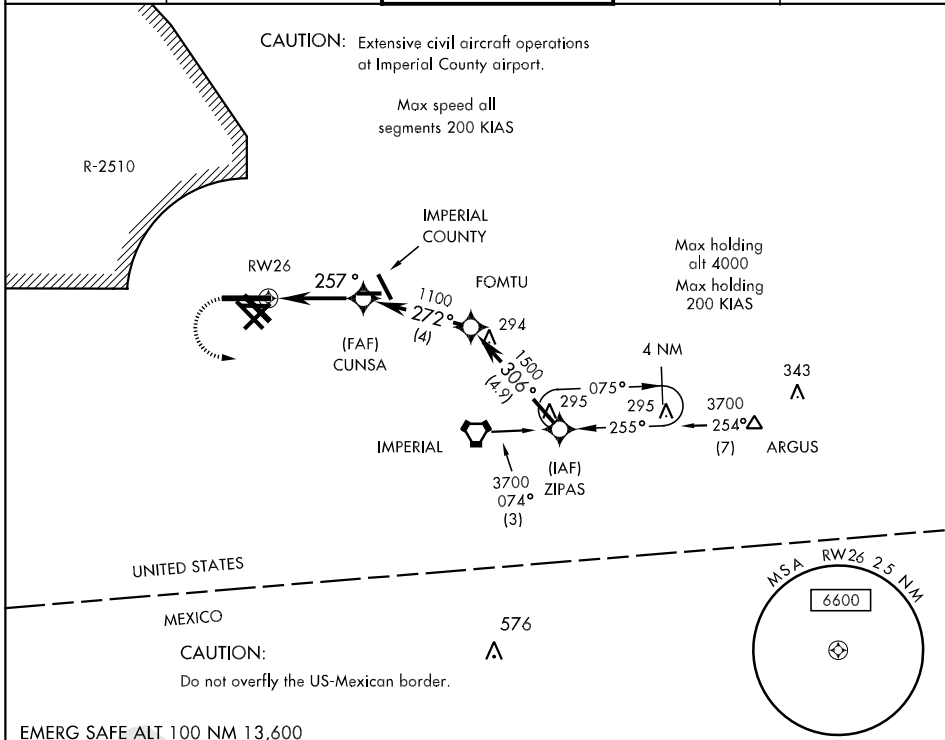
EL CENTRO NAF (KNJK)



For uncompensated Baro VNAV systems, LNAV/VNAV
NA below -14°C(6°F) or above 39°C(103°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 500, then climbing
left turn to 2000 direct ZIPAS and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	128.6 291.7	119.1 360.2	121.9 254.35	340.2



WAAS Chan **60099**
W30A

APCH CRS **302°**

Rwy Idg **6824**
TDZE **-42**
Arpt Elev **-42**

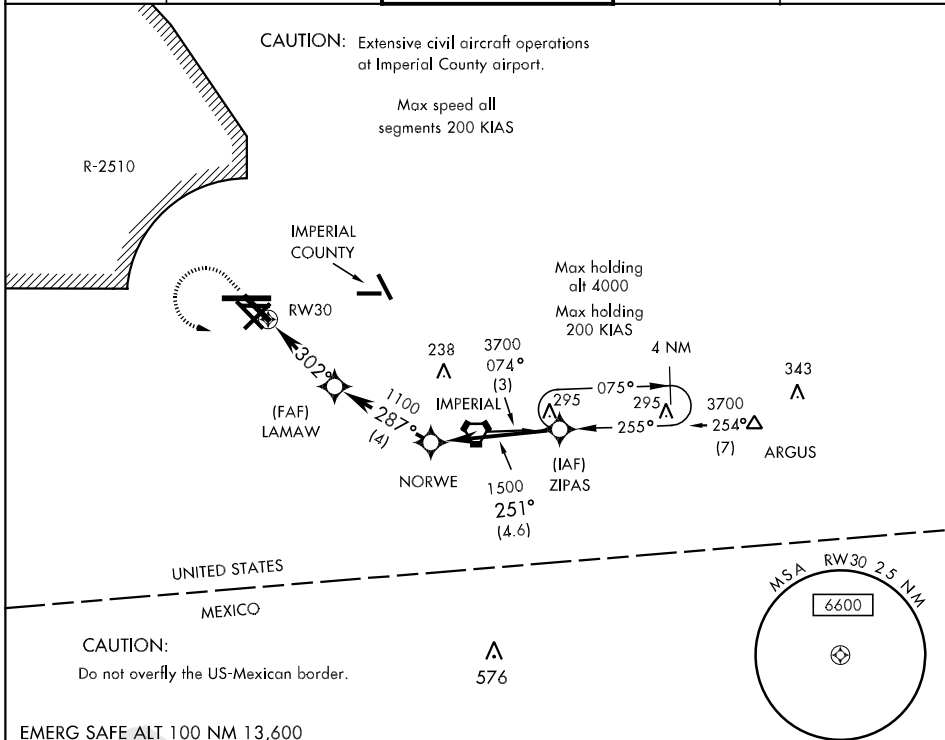
AL-472 [USN]

EL CENTRO NAF (KNJK)

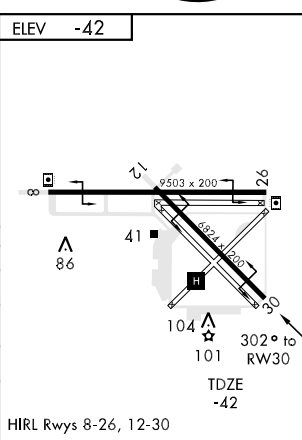
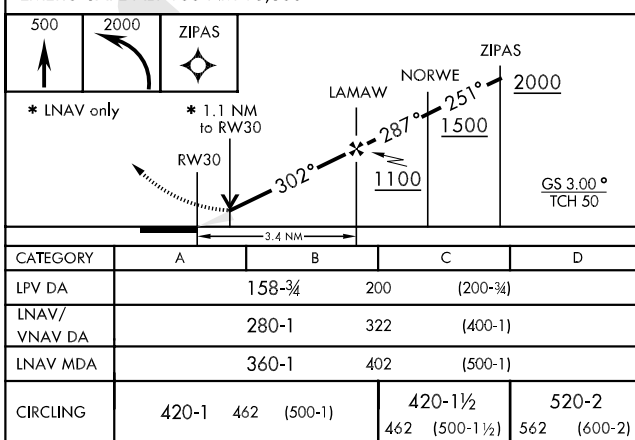
For uncompensated Baro VNAV systems, LNAV/VNAV NA below -14°C(6°F) or above 42°C(108°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 500, then climbing left turn to 2000 direct ZIPAS and hold.

ATIS ★ 269.275	LOS ANGELES CENTER 128.6 291.7	EL CENTRO TOWER ★ 119.1 360.2	GND CON 121.9 254.35	CLNC DEL 340.2
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EMERG SAFE ALT 100 NM 13,600



TACAN NJK
Chan 47APCH CR
264°

Rwy Idg	9503
TDZE	-45
Arprt Elev	-42

AL-472 [USN]

EL CENTRO NAF (KNJK)



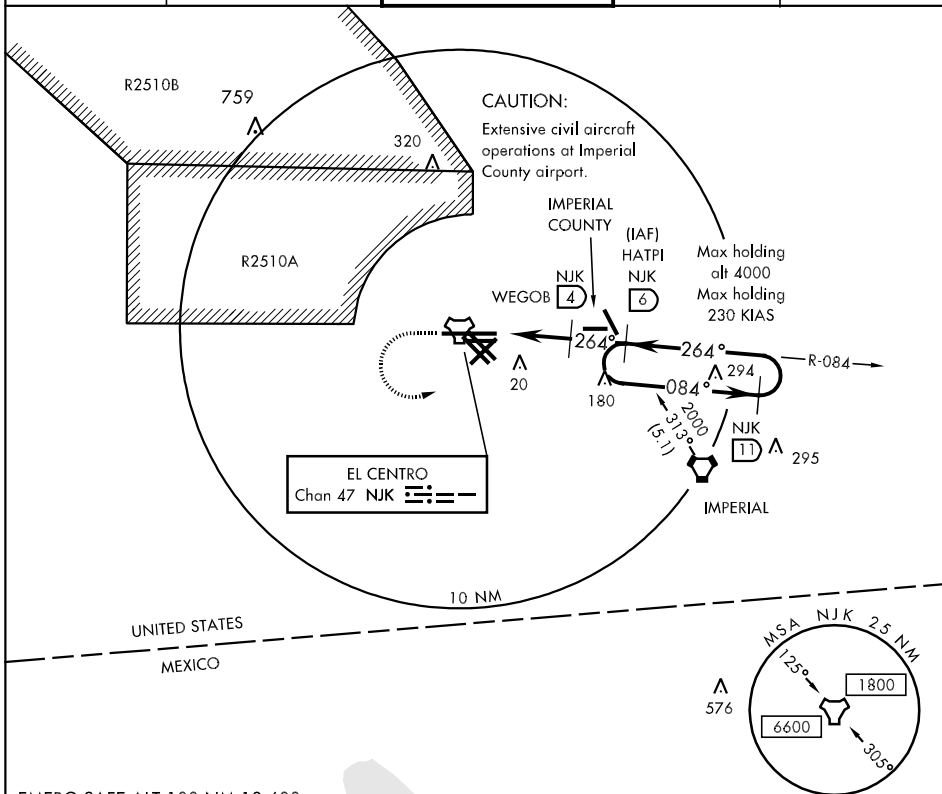
MISSED APPROACH: Climb to 1000, then climbing left turn to 2000, intercept NJK TACAN R-084 to HATPI and hold.

ATIS ★
269.275

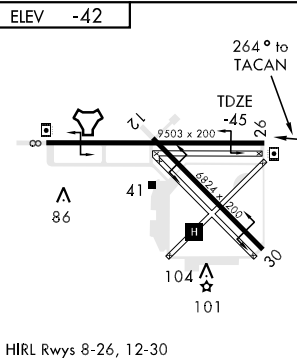
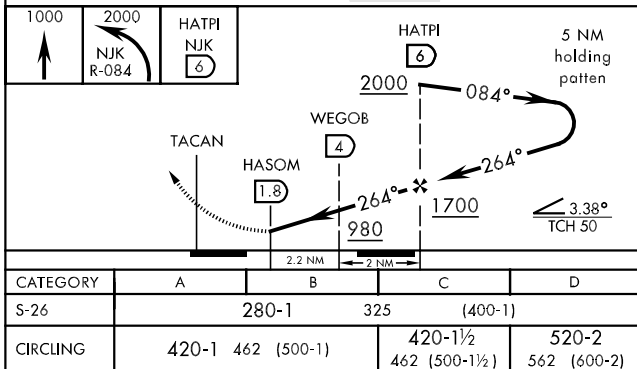
LOS ANGELES CENTER
128.6 291.7

EL CENTRO TOWER
119.1 360.2

GND CON
121.9 254.35

CLNC DEL
340.2

EMERG SAFE ALT 100 NM 13,600



EL CENTRO, CALIFORNIA

32°49'N-115°40'W

EL CENTRO NAF (KNJK)

Amdt 1 09127

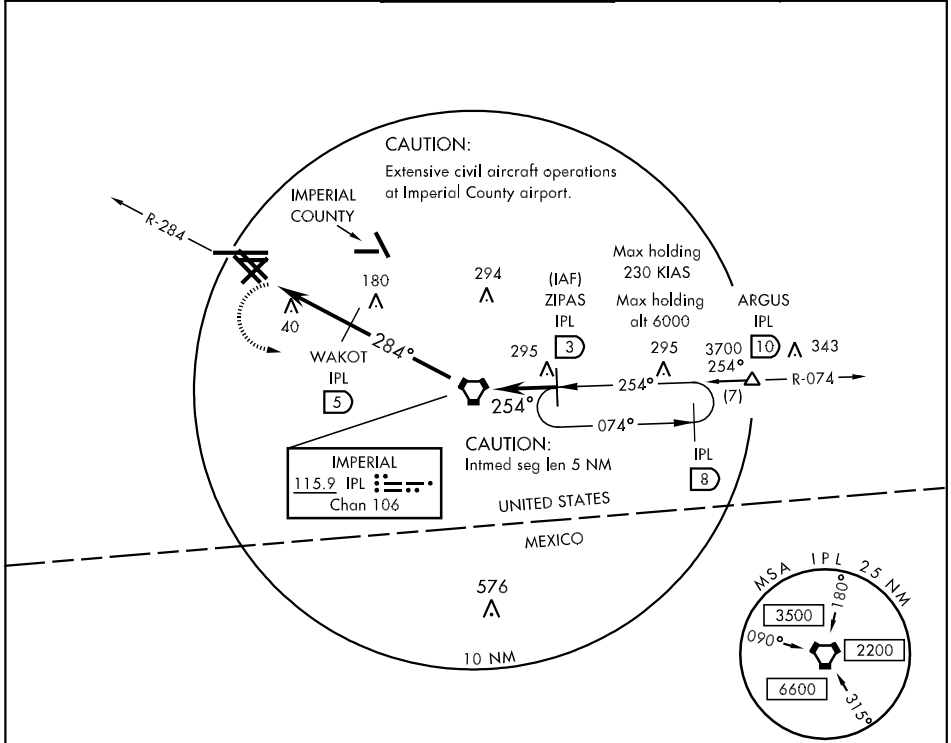
TAGANLRYAYO/

VORTAC IPL 115.9 Chan 106	APCH CRS 284°	Rwy Idg TDZE Arpt Elev 6824 -42 -42
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AL-472 [USN]

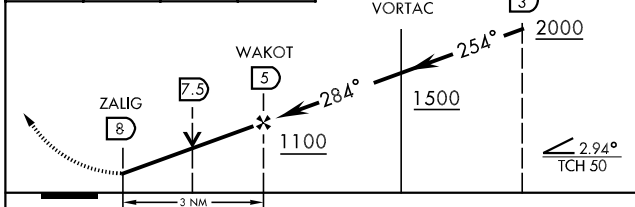
EL CENTRO NAF (KNJK)

ATIS ★ 269.275	LOS ANGELES CENTER 128.6 291.7	EL CENTRO TOWER ★ 119.1 360.2	GND CON 121.9 254.35	CLNC DEL 340.2
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EMERG SAFE ALT 100 NM 13,600

500	2000	IPL	ZIPAS IPL 3
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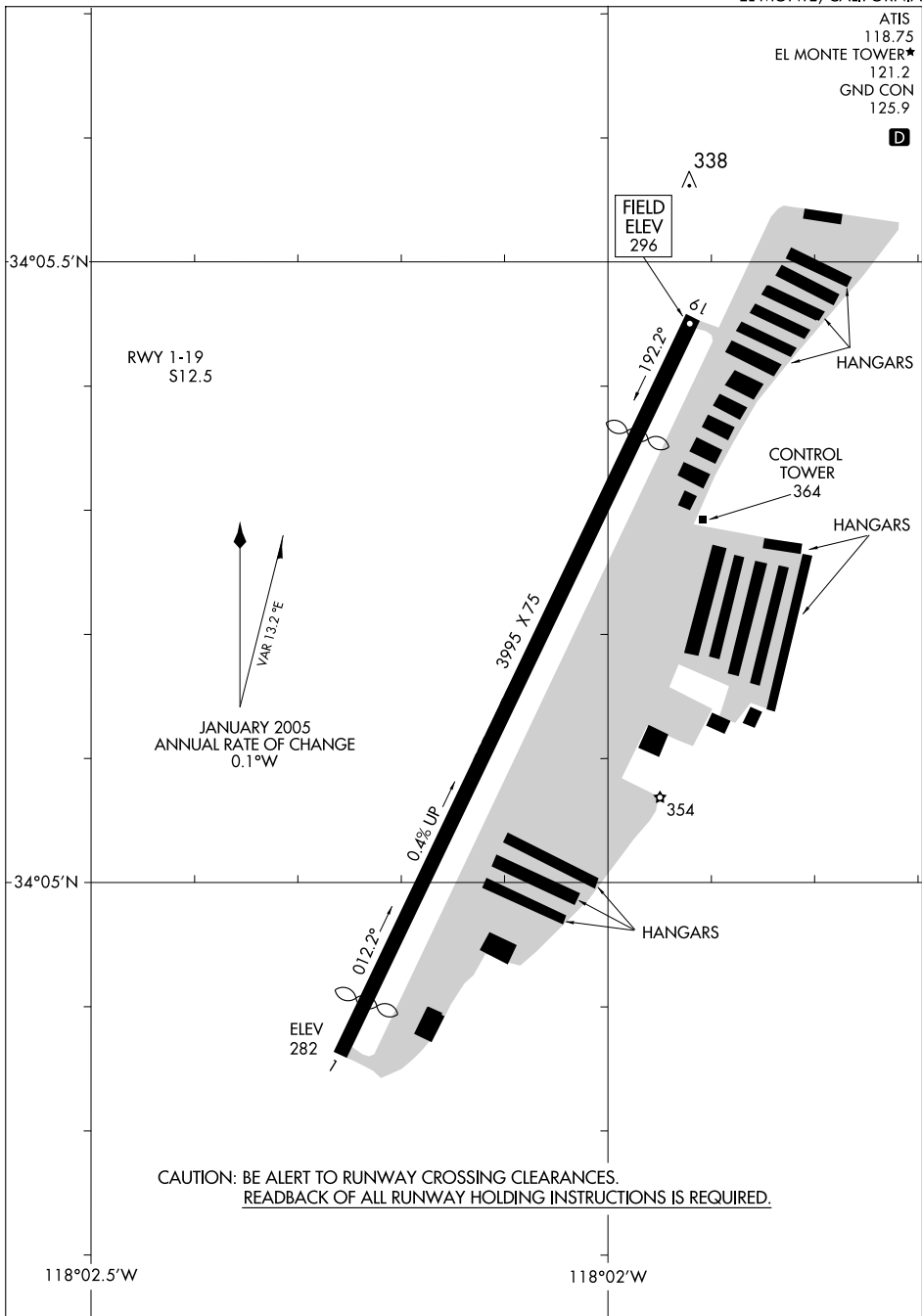


CATEGORY	A	B	C	D
S-30	300-1	342 (400-1)	342 (400-1½)	300-1½ 342 (400-1½)
CIRCLING	420-1 462 (500-1)	420-1½ 462 (500-1½)	520-2 562 (600-2)	

ELEV -42	
284° 3.5 NM from FAF	
HIRL Rwy 8-26, 12-30	
FAF to MAP 3.0 NM	
Knots	60 90 120 150 180
Min:Sec	3:00 2:00 1:30 1:12 1:00

AIRPORT DIAGRAM

AL-5639 (FAA)

EL MONTE (EMT)
EL MONTE, CALIFORNIA

NDB EMT 359	APP CRS 258°	Rwy Idg TDZE Apt Elev	N/A N/A 296
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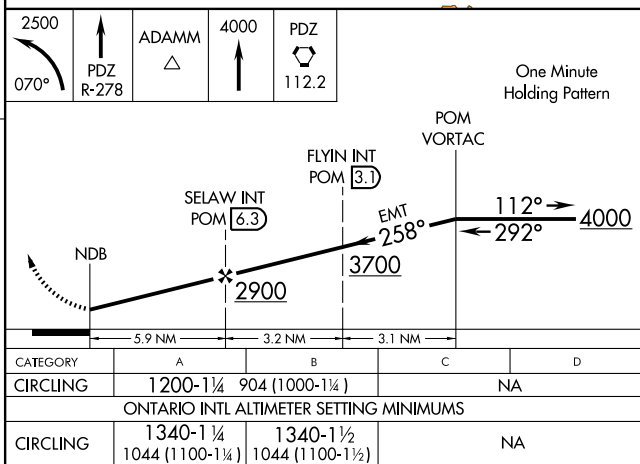
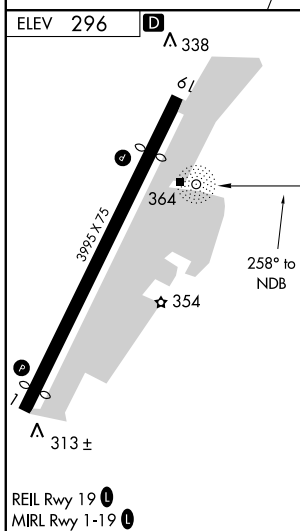
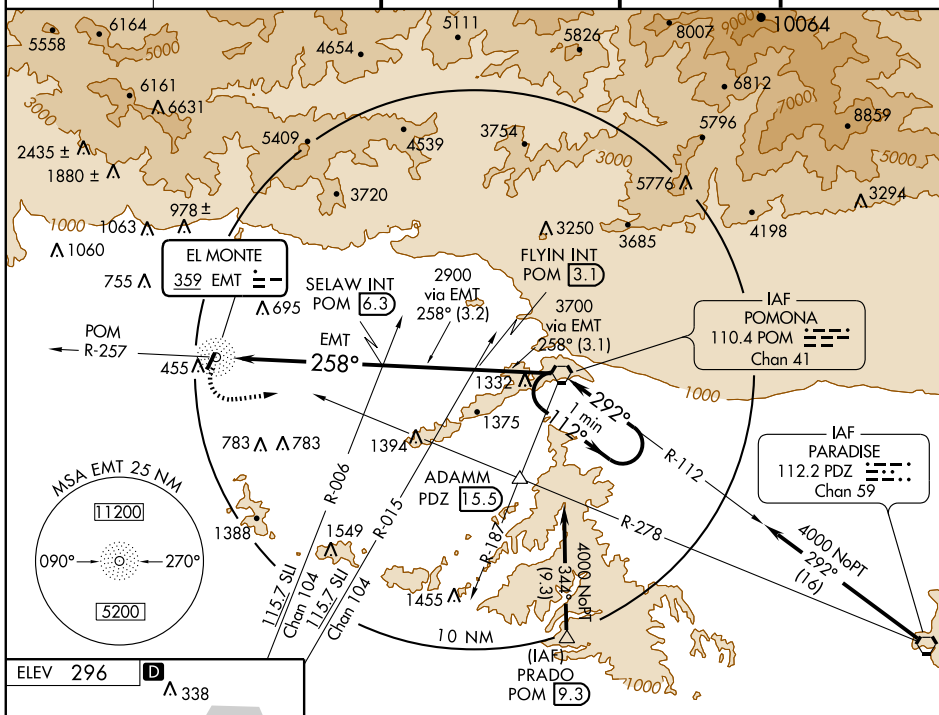
NDB or GPS-C
EL MONTE (EMT)

EL MONTE (EMT)

T When local altimeter setting not received, use Ontario Int'l
A altimeter setting.

MISSED APPROACH: Climbing left turn to 2500 via heading 070° and PDZ R-278 to ADAMM Int, then continue climb to 4000 to PDZ VORTAC.

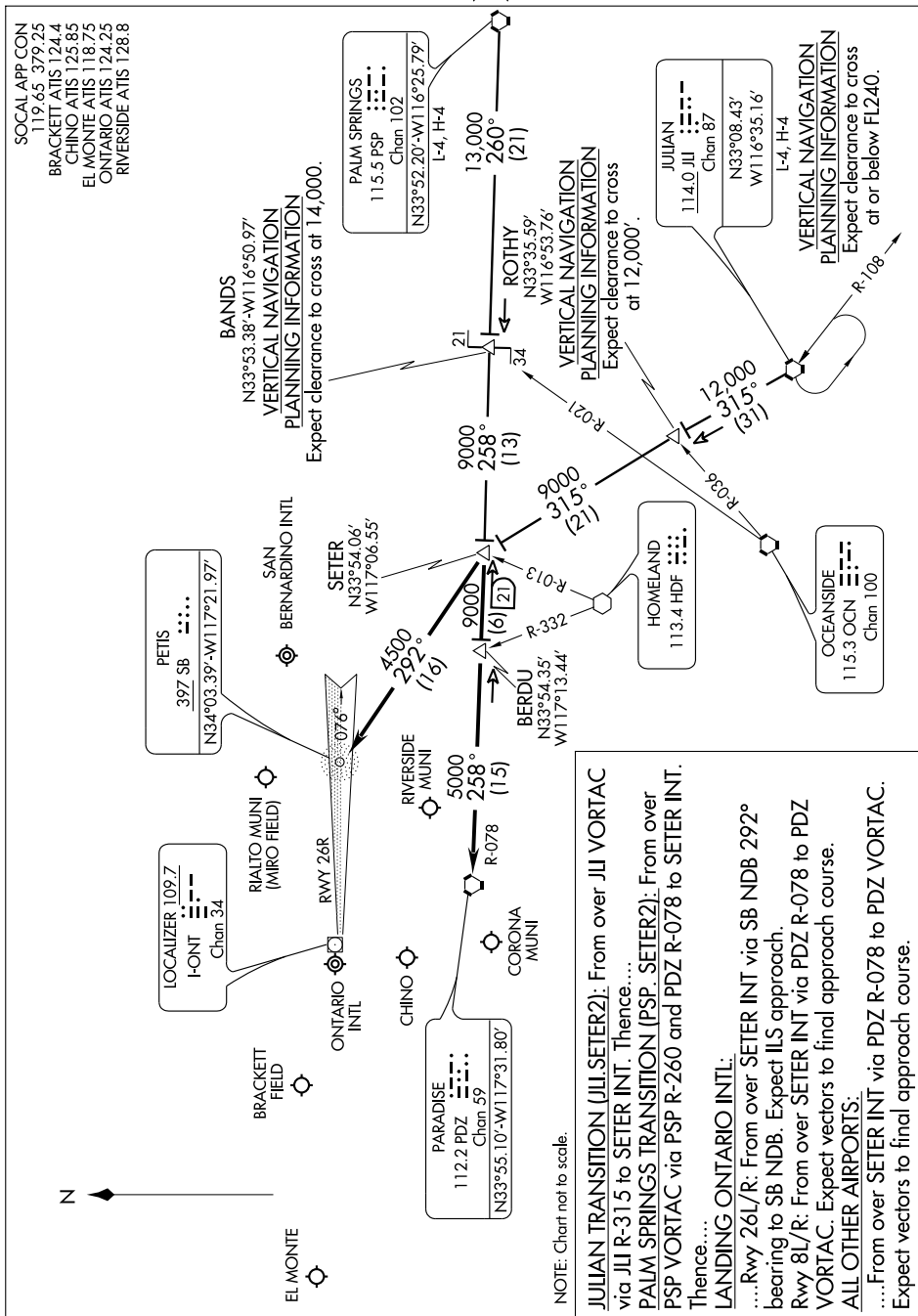
ATIS 118.75	SOCAL APP CON 125.5 349.0	EL MONTE TOWER★ 121.2 (CTAF) 0	GND CON 125.9	UNICOM 122.95
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SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



VORTAC PDZ 112.2 Chan 59	APP CRS 096°	Rwy Idg TDZE Apt Elev N/A N/A 296
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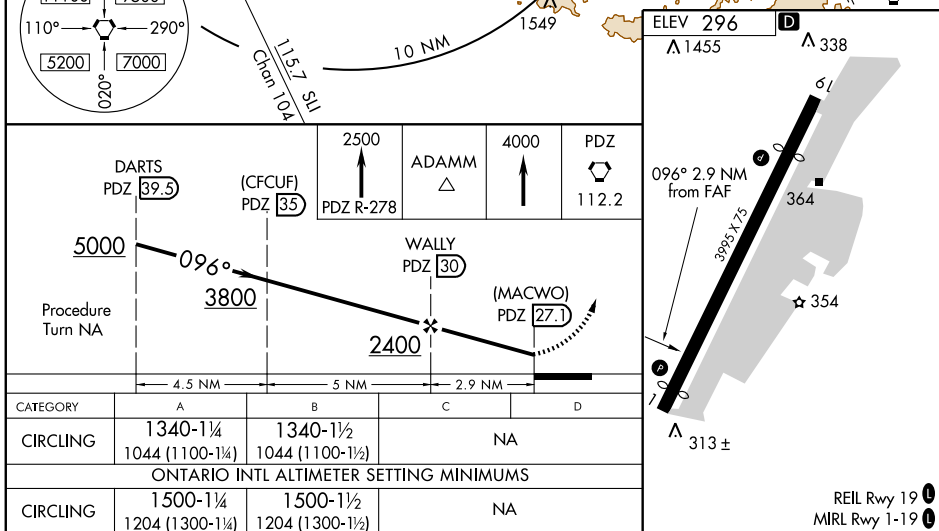
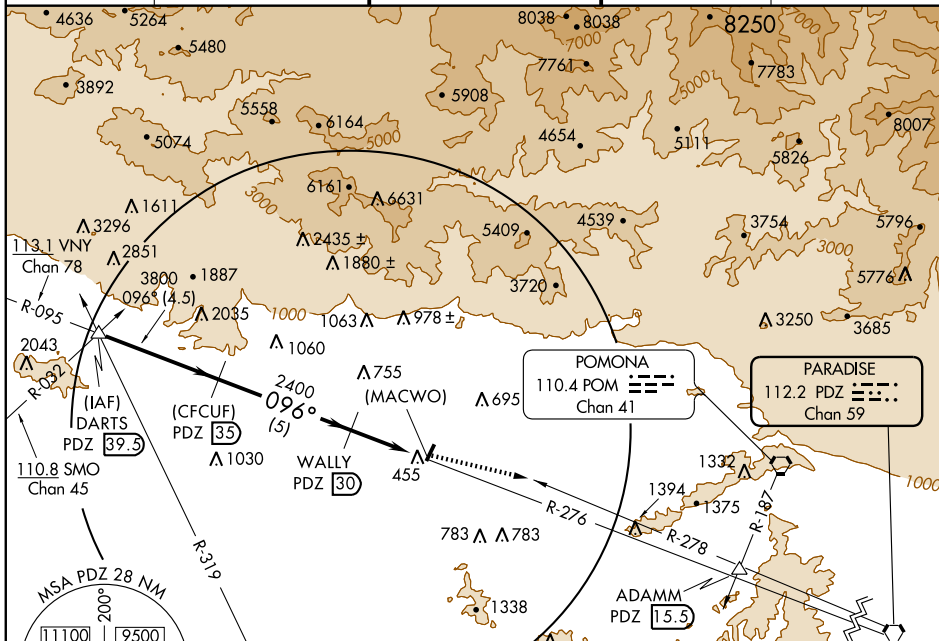
VOR/DME or GPS-B

EL MONTE (EMT)

▼ When local altimeter setting not received, use Ontario Intl altimeter setting.

MISSED APPROACH: Climb to 2500 via PDZ R-278 to ADAMM Int, then continue climb to 4000 to PDZ VORTAC.

ATIS 118.75	SOCAL APP CON 125.5 349.0	EL MONTE TOWER ★ 121.2 (CTAF) 0	GND CON 125.9	UNICOM 122.95
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ZIGGY FOUR ARRIVAL

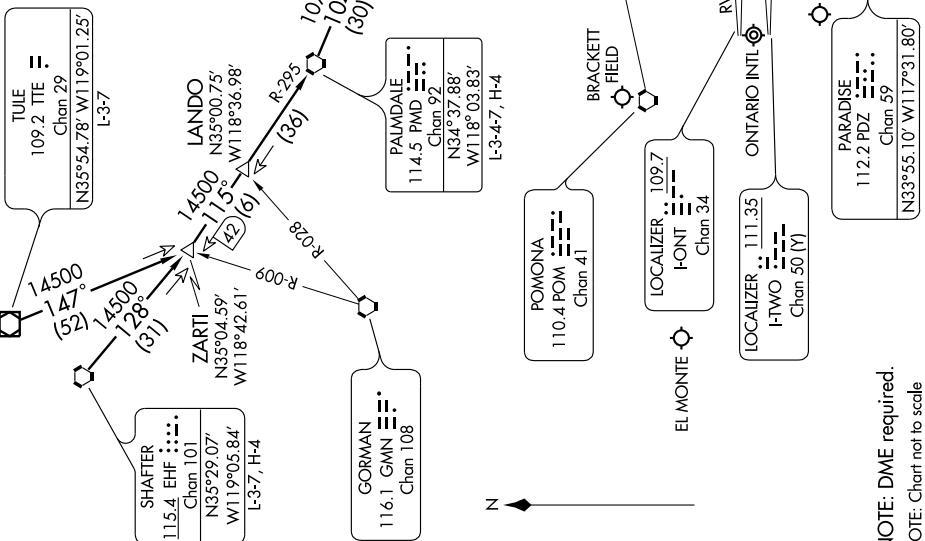
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

▼

▲ NA

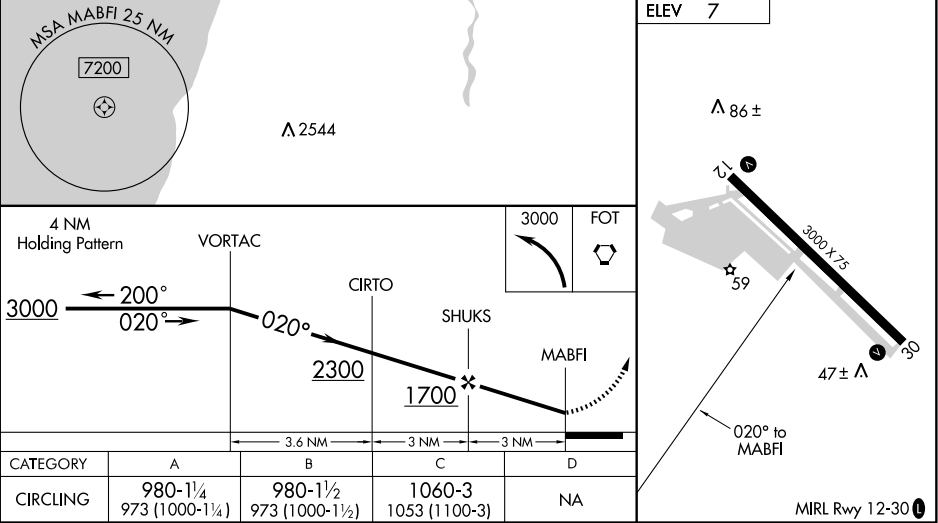
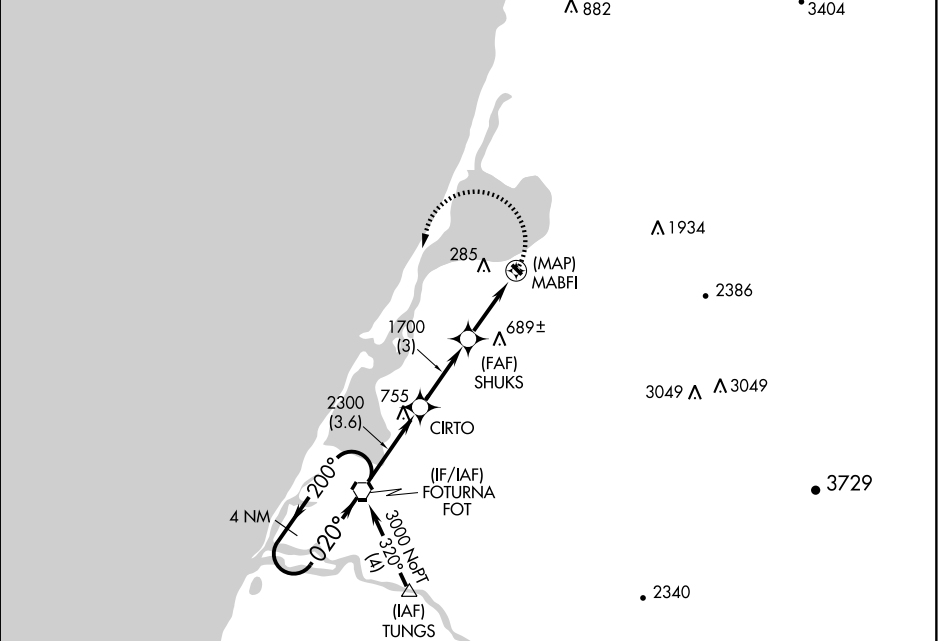
DME/DME RNP -0.3 NA.

Use Arcata altimeter setting when not received, use Crescent City altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climbing left turn to 3000 direct FOT VORTAC and hold.

SEATTLE CENTER
124.85 306.3

UNICOM
122.7 (CTAF) 1



APP CRS	Rwy Idg	3000
115°	TDZE	7
	Apt Elev	7

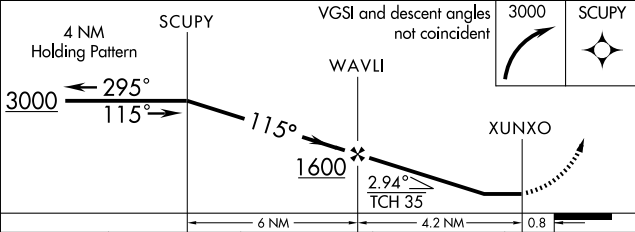
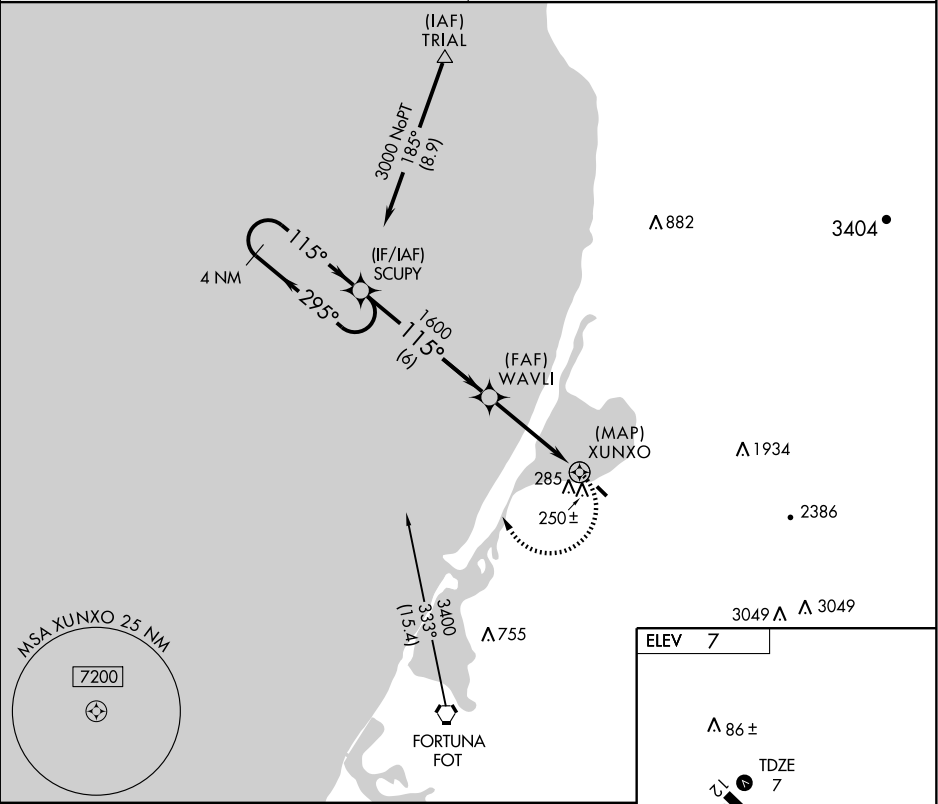
RNAV (GPS) RWY 12

EUREKA/MURRAY FIELD (EKA)

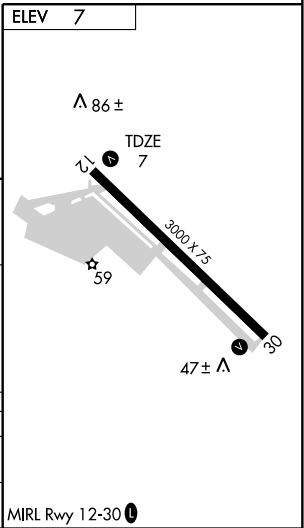
NA DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Use Arcata altimeter setting, when not received, use Crescent City altimeter setting and increase all MDA 100 feet and increase LNAV Cat C and circling Cat B visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 3000 direct SCUPY and hold.

SEATTLE CENTER 124.85 306.3	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
LNAV MDA	760-1 753 (800-1)	760-1¼ 753 (800-1¼)	760-2¼ 753 (800-2¼)	NA
CIRCLING	760-1 753 (800-1)	880-1¼ 873 (900-1¼)	1060-3 1053 (1100-3)	NA

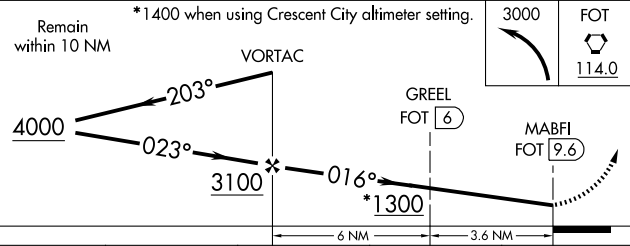
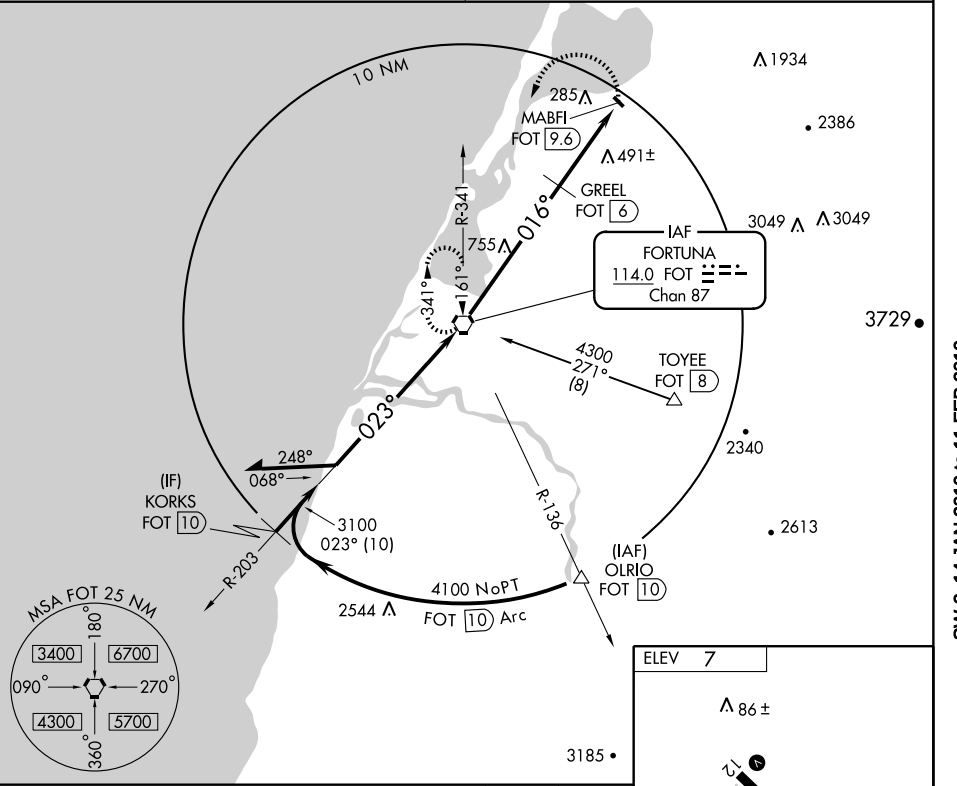


Use Arcata altimeter setting; when not received, use Crescent City altimeter setting and increase all MDA 100 feet and increase GREEL fix minimums visibility Cats. A and B ¼ mile.

MISSED APPROACH: Climbing left turn to 3000 direct FOT VORTAC and hold.

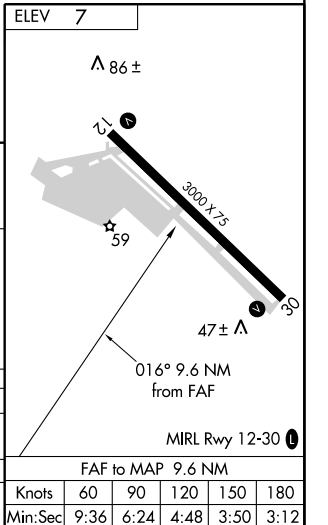
SEATTLE CENTER
124.85 306.3

UNICOM
122.7 (CTAF)



CATEGORY	A	B	C	D
CIRCLING	1300-1¼ 1293 (1300-1¼)	1300-1½ 1293 (1300-1½)	1300-3 1293 (1300-3)	NA

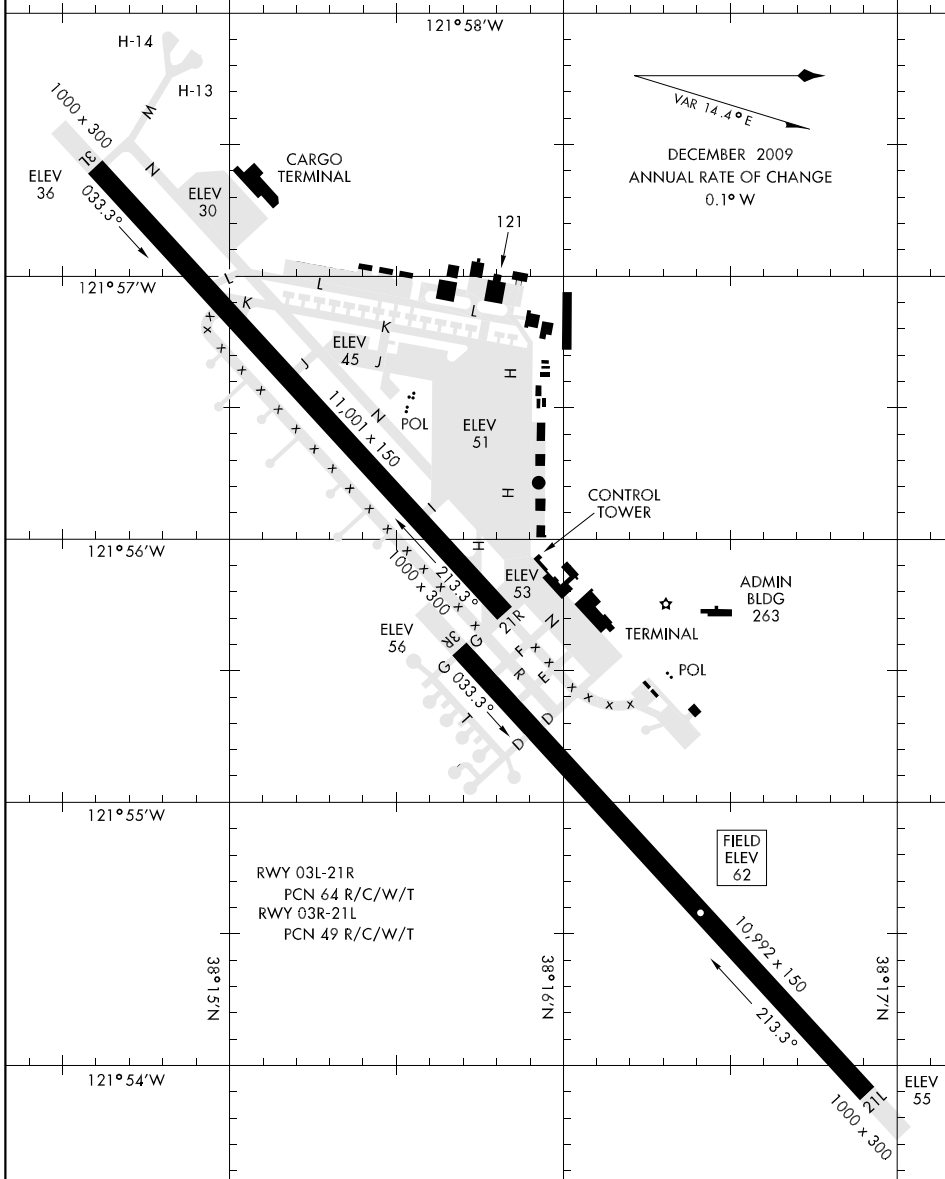
GREEL FIX MINIMUMS			
CIRCLING	860-1 853 (900-1)	880-1¼ 873 (900-1¼)	1060-3 1053 (1100-3)



SW-2, 14 JAN 2010 to 11 FEB 2010

ATIS 135.55 292.125
 TRAVIS TOWER
 120.75 254.4
 GND CON
 121.8 289.4
 CLNC DEL
 127.55 335.8

SW-2, 14 JAN 2010 to 11 FEB 2010



LOC I-TXV 108.35	APCH CRS 032°	Rwy Idg 11,001 TDZE 36 Arpt Elev 62
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AL-488 [USAF]

TRAVIS AFB (KSUU)



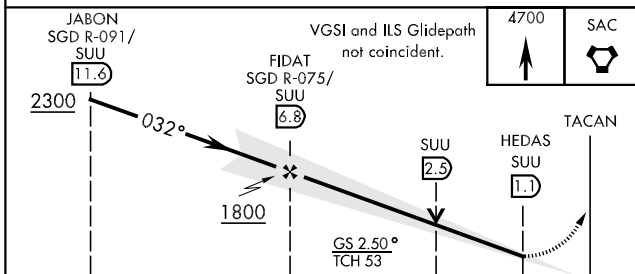
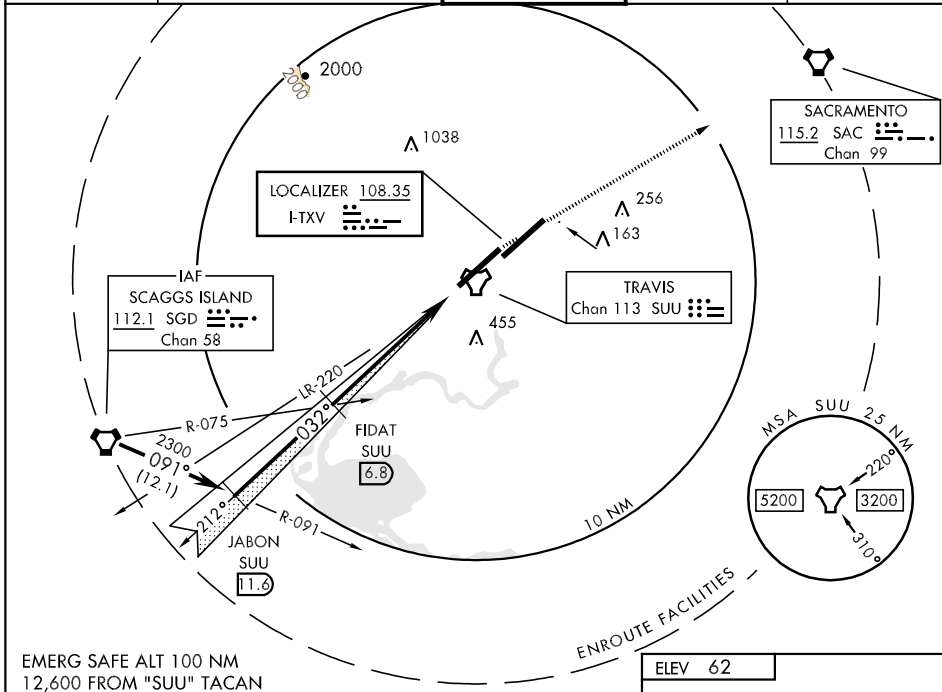
* Circling not authorized NW of Rwy 3L-21R.

** VDP NA for sidestep maneuver to Rwy 3R.

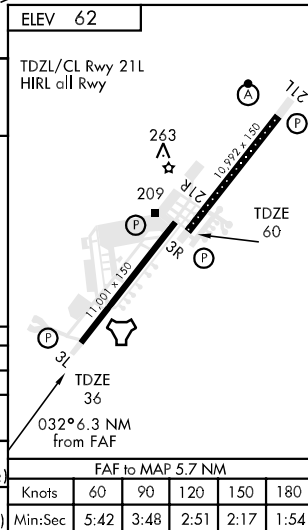
MISSED APPROACH: Climb to 4700 direct SAC VORTAC.

Prior to reaching SAC expect further clearance from ATC.

ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8
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CATEGORY	A	B	C	D	E
S-ILS 3L	236/40		200	(200-3/4)	
S-LOC 3L	620/50	584 (600-1)	620-1½ 584 (600-1½)	620-1¾ 584 (600-1¾)	620-2 584 (600-2)
SIDESTEP ** RWY 3R	760/50	700 (700-1)	760-2 700 (700-2)	760-2¼ 700 (700-2¼)	760-2½ 700 (700-2½)
CIRCLING *	620-1	558 (600-1)	620-1½ 558 (600-1½)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)



LOC I-SUU 110.1	APCH CRS 212°	Rwy Idg 10,992 TDZE 58 Arpt Elev 62
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AL-488 [USAF]

TRAVIS AFB (KSUU)

▼ *When ALS inop, increase RVR to 40 and vis to ¾ mile. When TDZL/CL inop, increase CAT AB RVR to 24.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ mile, and CAT DE vis to 1½ mile.

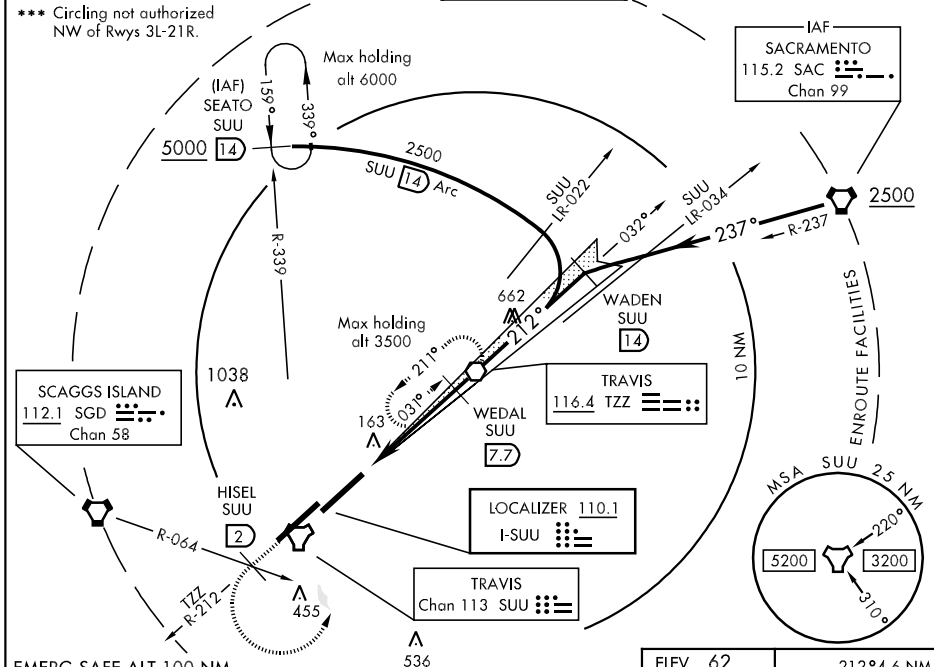
ALSF-2



MISSED APPROACH: Climb to 3500 via TZZ VOR R-212 to HISEL, then turn left direct TZZ and hold, continue climb in holding to 3500.

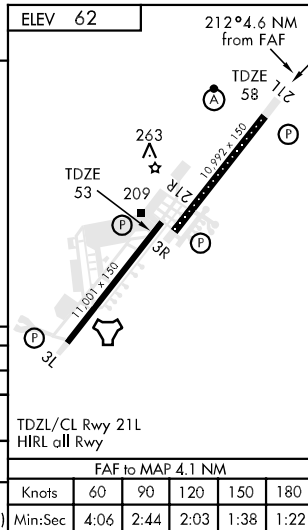
ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8
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*** Circling not authorized NW of Rwy 3L-21R.

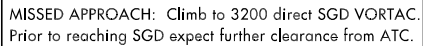


EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN

3500 ↑ TZZ R-212	HISEL TZZ	VGSI and ILS Glidepath not coincident.				WADEN SUU 14
TACAN	TUVOY SUU 3.6	4.4	WEDAL SUU 7.7	2500	GS 2.80° TCH 56	
0.5 NM		4.1 NM				
CATEGORY	A	B	C	D	E	
S-ILS 21L *	258/18	200 (200-½)	258/24	200 (200-½)		
S-LOC 21L **	500/24	442 (500-½)	500/40 442 (500-¾)	500/50	442 (500-1)	
SIDESTEP RWY 21R	520-2¾		467	(500-2¾)		
CIRCLING ***	520-1	458 (500-1)	520-1½ 458 (500-1½)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)	



TRAVIS AFB (KSUU)



CLNC DEL
127.55 335.8



EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN

TRAVIS AFB (KS

TRAVIS AFB (KSUU)

Amdt 1 09351

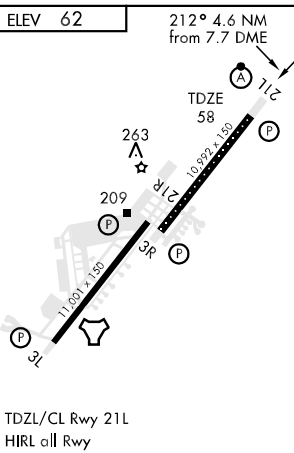
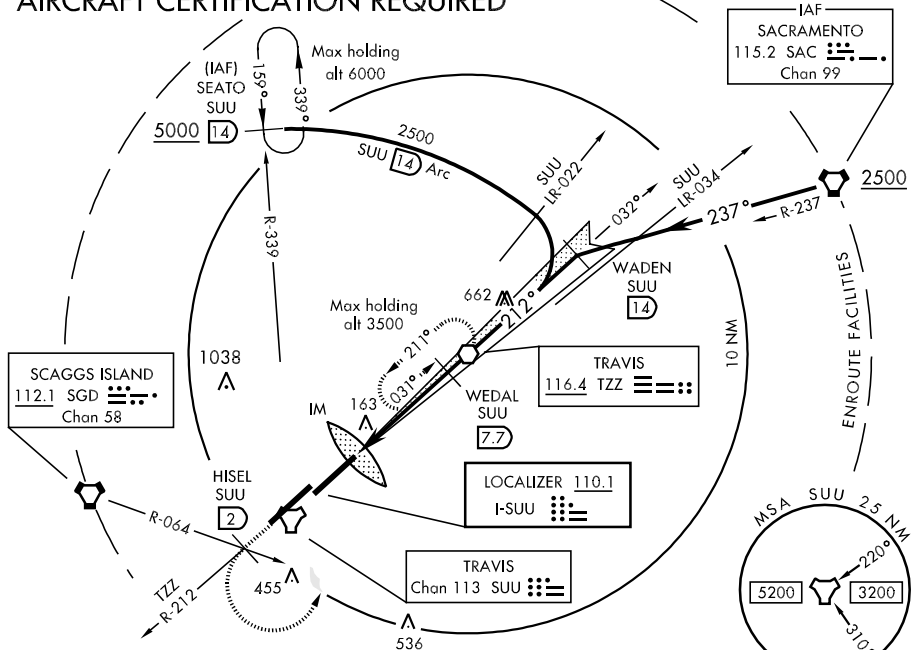
LOC I-SUU 110.1	APCH CRS 212°	Rwy Idg 10,992 TDZE 58 Arpt Elev 62
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AL-488 [USAF]

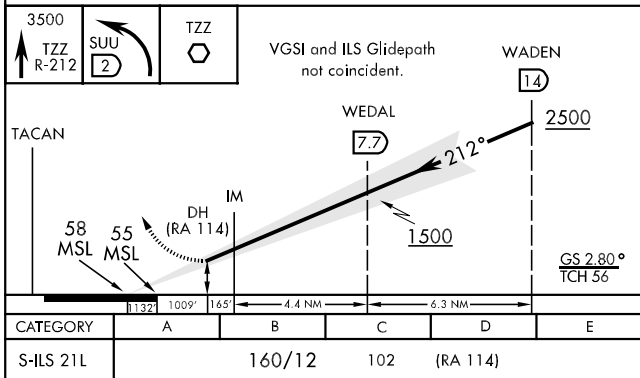
TRAVIS AFB (KSUU)

		ALSF-2	MISSED APPROACH: Climb to 3500 via TZZ VOR R-212 to HISEL, then turn left direct TZZ and hold, continue climb in holding to 3500.		
ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8	

CATEGORY II ILS SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN



ATIS 135.55 292.125
 CLNC DEL
 127.55 335.8
 GND CON
 121.8 289.4
 TRAVIS TOWER
 120.75 254.4
 TRAVIS DEP CON
 126.6 306.9

SHL-488 [USAF]

RAILE
 L-2-3, H-3

WILLIAMS
 114.4 ILA 
 Chan 91

L-2-3, H-3

SACRAMENTO
 115.2 SAC 
 Chan 99

L-2-3, H-3

DUDES
 L-2-3, H-3

A 2948

TRAVIS
 Chan 113 SUU 

MANTECA
 116.0 ECA 
 Chan 107

L-2-3, H-3

DEPARTURE ROUTE DESCRIPTION

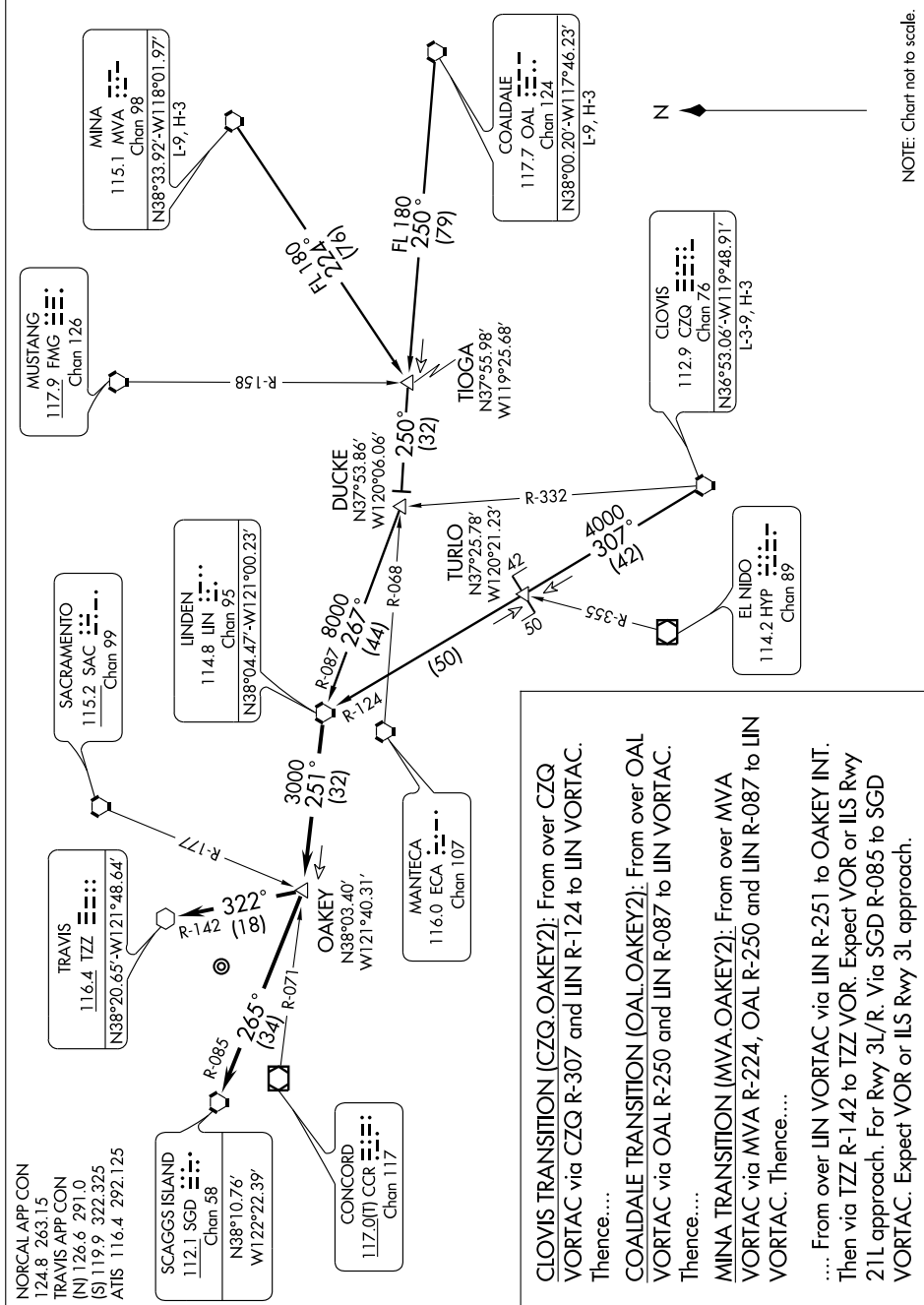
TAKE-OFF RWY 3L/R: Climb via heading 032° to intercept and fly SAC VORTAC R-224 to SAC. Then via assigned transition.

DUDES TRANSITION (MENTO1•DUDES): Turn right intercept and fly SAC R-058 to 65.3 DME (DUDES).

MANTECA TRANSITION (MENTO1•ECA): Turn right intercept and fly SAC R-137 to ECA VORTAC R-317 to ECA.

RAILE TRANSITION (MENTO1•RAILE): Turn left intercept and fly SAC R-311 to ILA VORTAC R-131 to ILA then turn right intercept and fly ILA R-057 to 28.1 DME (RAILE).

WILLIAMS TRANSITION (MENTO1•ILA): Turn left intercept and fly SAC R-311 to ILA R-131 to ILA.



NOTE: Chart not to scale.

SW-2. 14 JAN 2010 to 11 FEB 2010

APCH CRS
032°

Rwy ldg **11,001**
TDZE **36**
Arpt Elev **62**

AL-488 [USAF]

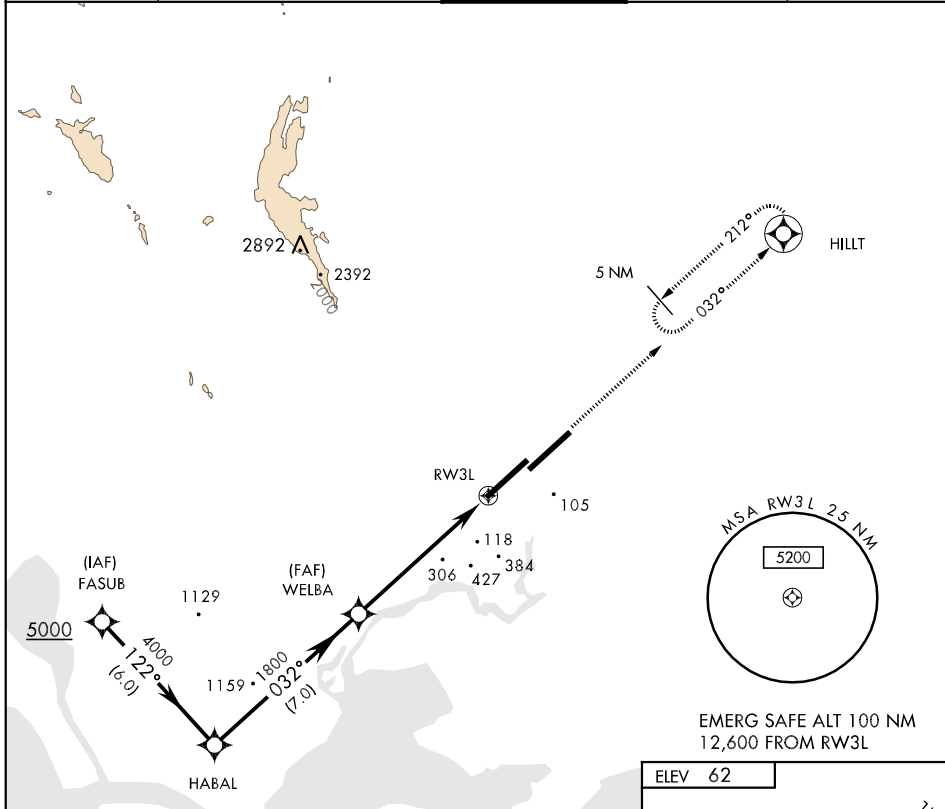
TRAVIS AFB (KSUU)



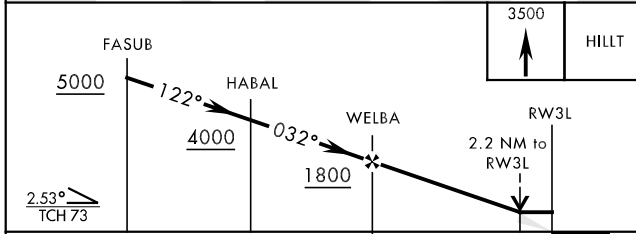
* Circling not authorized NW of Rwy 3L-21R.
DME/DME RNP-0.3 NA

MISSED APPROACH: Climbing straight ahead to 3500 direct HILLT and hold.

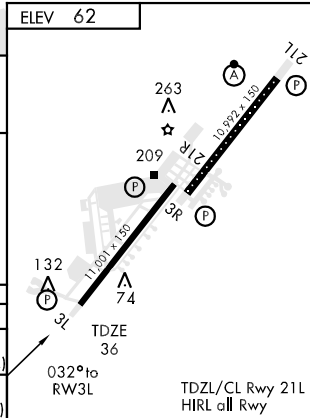
ATIS	TRAVIS APP CON	TRAVIS TOWER	GND CON	CLNC DEL
135.55 292.125	119.9 (S) 126.6 (N) 291.0	120.75 254.4	121.8 289.4	127.55 335.8



EMERG SAFE ALT 100 NM
12,600 FROM RW3L



CATEGORY	A	B	C	D	E
LNAV MDA	680/50	644 (700-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)	680-2¼ 644 (700-2¼)
CIRCLING *	680-1	618 (700-1)	680-1¾ 618 (700-1¾)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)



APCH CRS **212°** Rwy Idg **10,992**
TDZE **58**
Arpt Elev **62**

AL-488 [USAF]

TRAVIS AFB (KSUU)



* When ALS inop, increase CAT A RVR to 50 and vis to 1 mile, CAT B RVR to 60 and vis to 1 ¼ miles, CAT C vis to 2 ¼ miles, CAT D vis to 2 ½ miles, and CAT E vis to 2 ¾ miles.

ALS-2

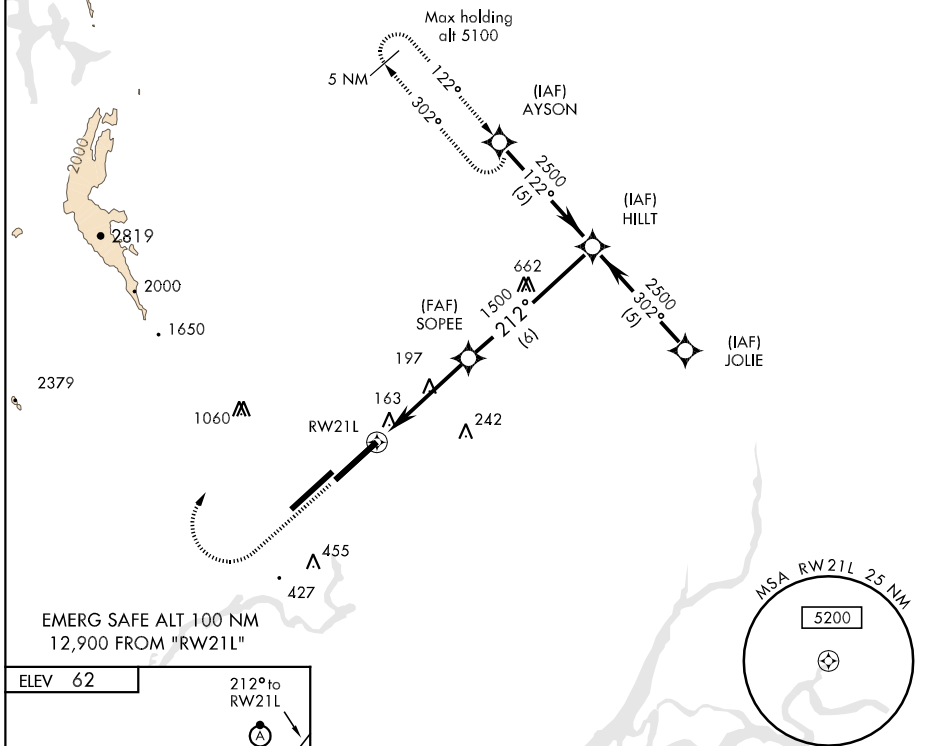


MISSED APPROACH: Climbing right turn to 4100 direct AYSON and hold.

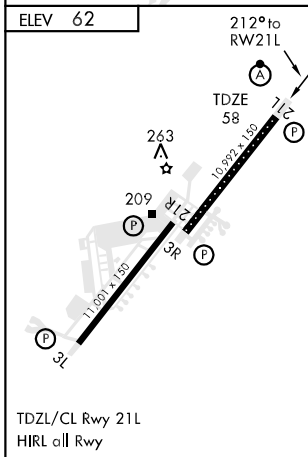
ATIS	TRAVIS APP CON	TRAVIS TOWER	GND CON	CLNC DEL
135.55 292.125	119.9 (S) 126.6 (N) 291.0	120.75 254.4	121.8 289.4	127.55 335.8

** Circling not authorized NW of Rwy 3L-21R.

DME/DME RNP-0.3 NA



ELEV 62



4100

AYSON

2.3 NM

to

RW21L

SOPEE

1500

HILLT

2500

212°

4.6 NM

2.82°

TCH 73

CATEGORY	A	B	C	D	E
LNAV MDA *	800/24 742 (800-½)	800/40 742 (800-¾)	800-1¾ 742 (800-1¾)	800-2 742 (800-2)	800-2¼ 742 (800-2¼)
CIRCLING **	800-1 738 (800-1)	800-1¼ 738 (800-1¼)	800-2¼ 738 (800-2¼)	800-2½ 738 (800-2½)	1440-3 1378 (1400-3)

APCH CRS 212°	Rwy Idg TDZE Arpt Elev	11,001 53 62
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AL-488 [USAF]

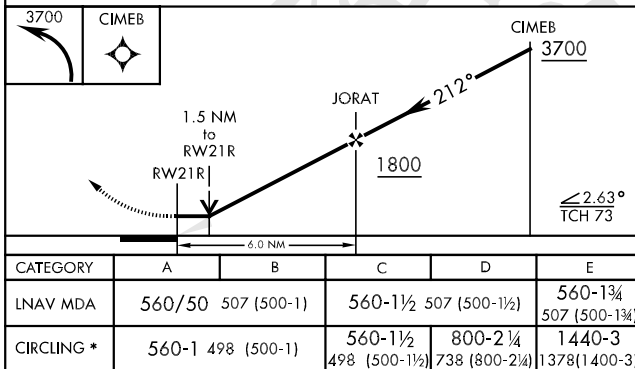
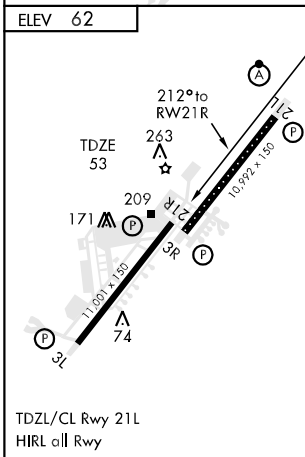
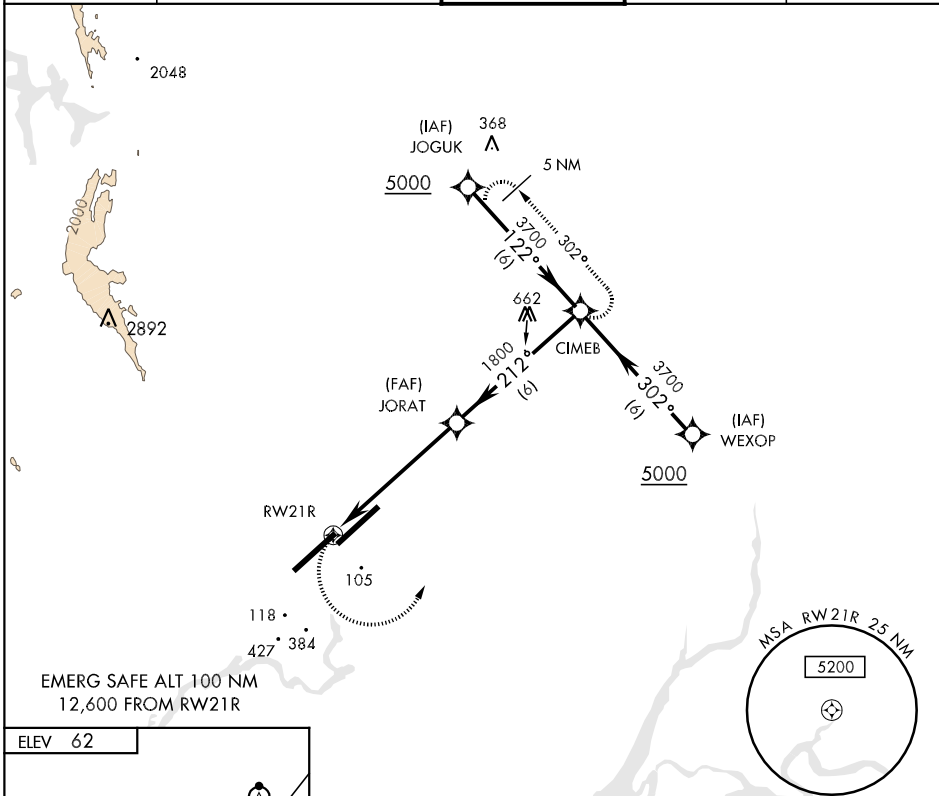
TRAVIS AFB (KSUU)

▼ * Circling not authorized NW of Rwy 3L-21R.

DME/DME RNP-0.3 NA

MISSED APPROACH: Climbing left turn to 3700
direct CIMEB and hold. Climb in holding
authorized.

ATIS	TRAVIS APP CON	TRAVIS TOWER	GND CON	CLNC DEL
135.55 292.125	119.9 (S) 126.6 (N) 291.0	120.75 254.4	121.8 289.4	127.55 335.8



NOTE: Chart not to scale.

LOST COMMUNICATIONS: For Rwy 3L/R execute VOR or ILS Rwy 21L approach, circle to land Rwy 3L.

TACAN SUU Chan 113	APCH CRS 042°	Rwy Idg 11,001 TDZE 36 Arpt Elev 62
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AL-488 [USAF]

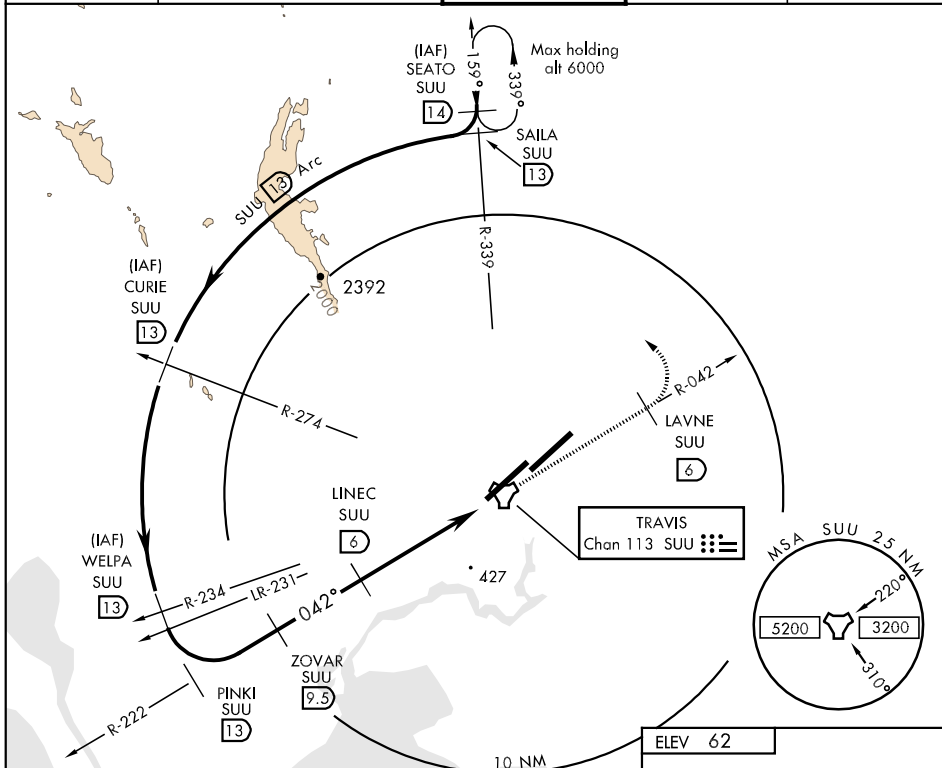
TRAVIS AFB (KSUU)



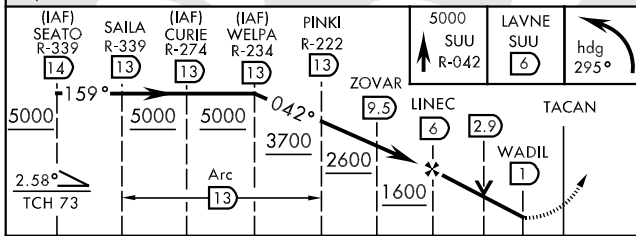
* Circling not authorized NW of Rwy 3L-21R.

MISSED APPROACH: Climb to 5000 via SUU TACAN R-042 to LAVNE, then turn left via 295° course to intercept SUU R-339 to SEATO and hold, continue climb in hold to 5000.

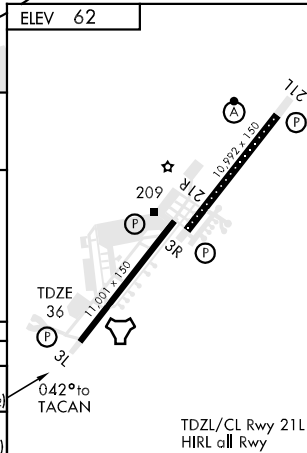
ATIS	TRAVIS APP CON			TRAVIS TOWER		GND CON		CLNC DEL	
135.55 292.125	119.9 (S)	126.6 (N)	291.0	120.75	254.4	121.8	289.4	127.55	335.8



EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN



CATEGORY	A	B	C	D	E
S-3L	740/50 704 (700-1)		740-2 704 (700-2)	740-2½ 704 (700-2½)	740-2½ 704 (700-2½)
CIRCLING *	740-1 678 (700-1)		740-2 678 (700-2)	800-2½ 738 (800-2½)	1440-3 1378(1400-3)



TACAN SUU Chan 113	APCH CRS 209°	Rwy Idg 10,992 TDZE 58 Arpt Elev 62
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AL-488 [USAF]

TRAVIS AFB (KSUU)

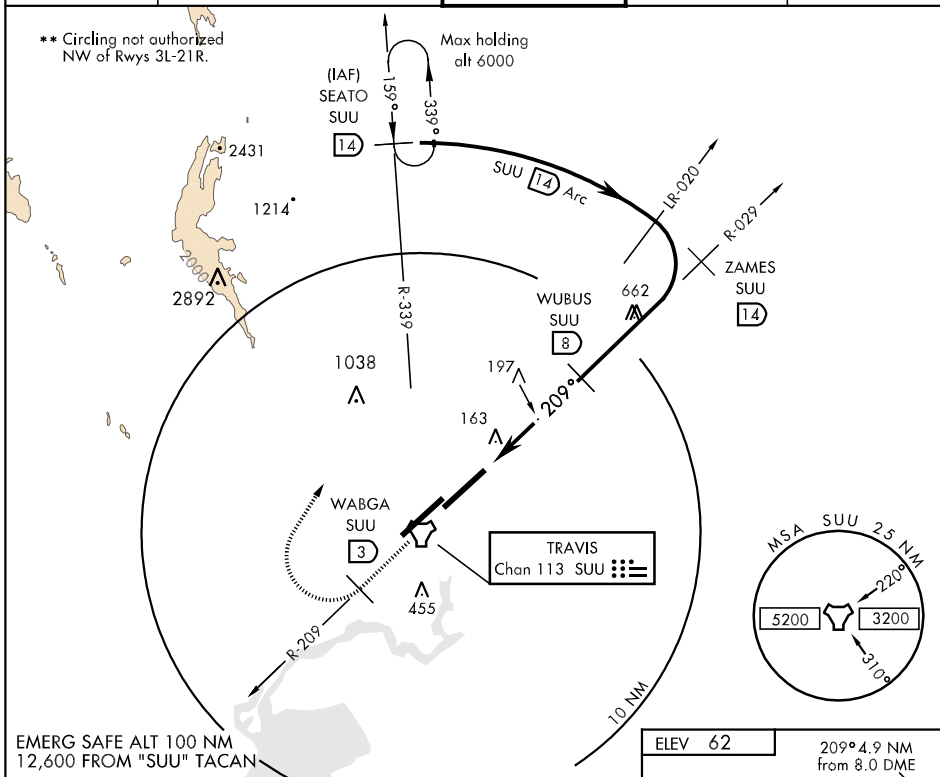
V*When ALS inop, increase CAT A RVR to 50 and vis to 1 mile, CAT B RVR to 60 and vis to 1¼ miles, CAT C vis to 2¼ miles, CAT D vis to 2½ miles, and CAT E vis to 2¾ miles.

ALSF-2

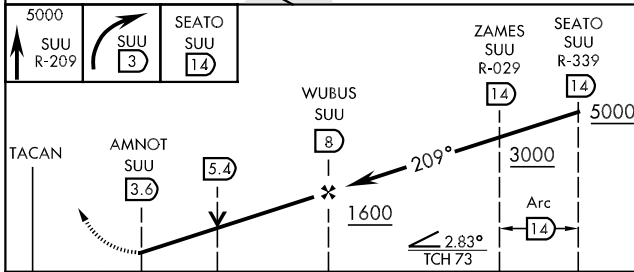
MISSED APPROACH: Climb to 5000 via SUU TACAN R-209 to WABGA, then turn right hdg 015° to intercept SUU R-339 to SEATO and hold, continue climb in hold to 5000.

ATIS	TRAVIS APP CON			TRAVIS TOWER		GND CON		CLNC DEL	
135.55 292.125	119.9 (S)	126.6 (N)	291.0	120.75	254.4	121.8	289.4	127.55	335.8

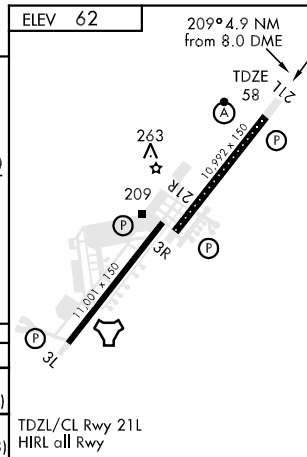
** Circling not authorized
NW of Rwy 3L-21R.



5000 SUU R-209	 SUU 3	SEATO SUU 14
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CATEGORY	A	B	C	D	E
S-21L *	800/24 742 (800-½)	800/40 742 (800-¾)	800-1¼ 742 (800-1¾)	800-2 742 (800-2)	800-2 ¼ 742 (800-2½)
CIRCLING**	800-1 738 (800-1)	800-1¼ 738 (800-1¼)	800-2¼ 738 (800-2¼)	800-2½ 738 (800-2½)	1440-3 1378 (1400-3)



TACAN Chan 113	SUU 202°	APCH CRS 202°	Rwy Idg 11,001 TDZE 53 Arpt Elev 62
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AL-488 [USAF]

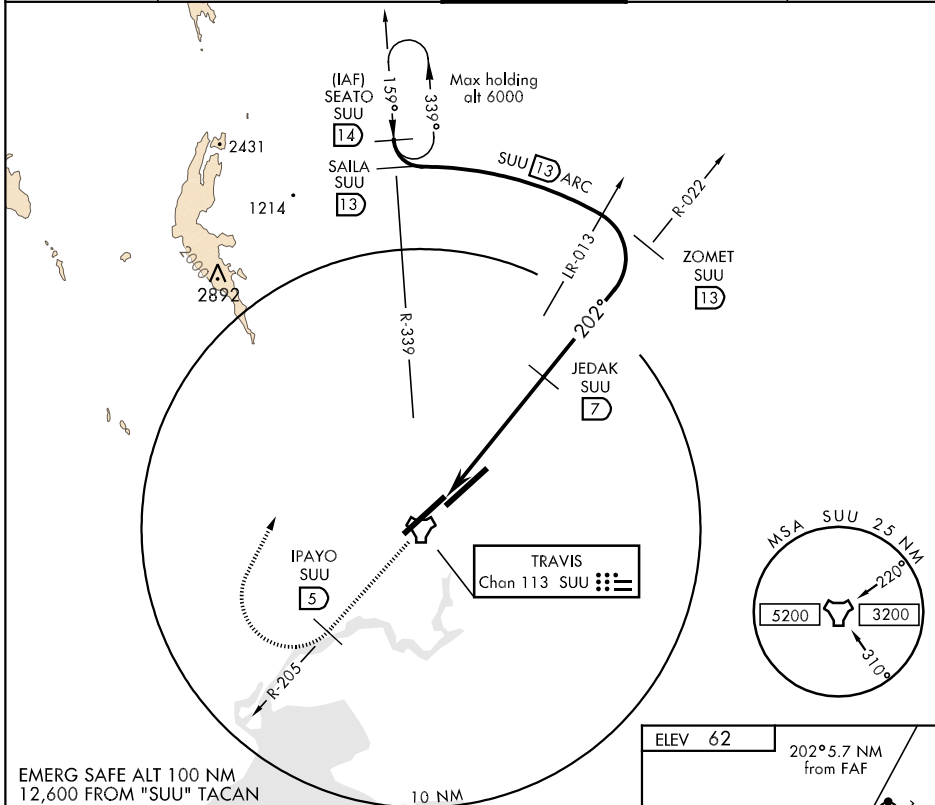
TRAVIS AFB (KSUU)



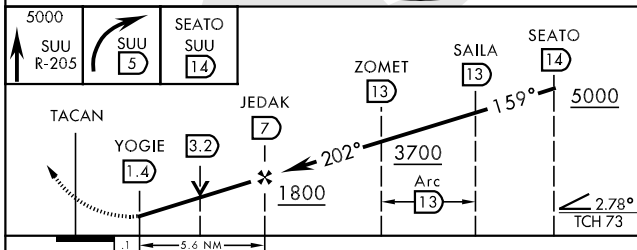
* Circling not authorized NW of Rwy 3L-21R.

MISSED APPROACH: Climb to 5000 via SUU TACAN R-205 to IPAYO, then turn right via 010° course to intercept SUU R-339 to SEATO and hold, continue climb in hold to 5000.

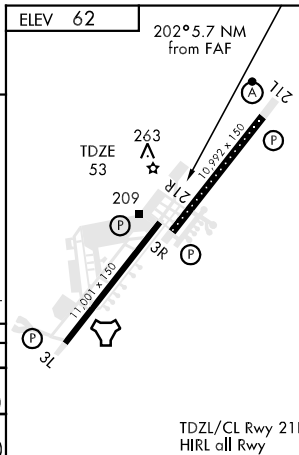
ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8
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EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN



CATEGORY	A	B	C	D	E
S-21R	680/50 627 (700-1)		680-1¾ 627 (700-1¾)	680-2 627 (700-2)	680-2¼ 627 (700-2¼)
CIRCLING *	680-1 618 (700-1)		680-1¾ 618 (700-1¾)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)



⚠

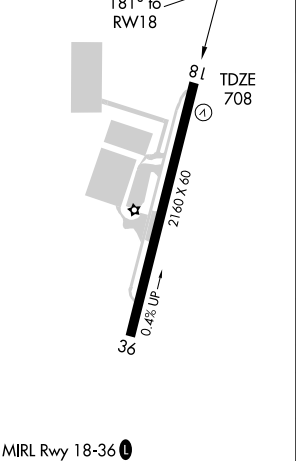
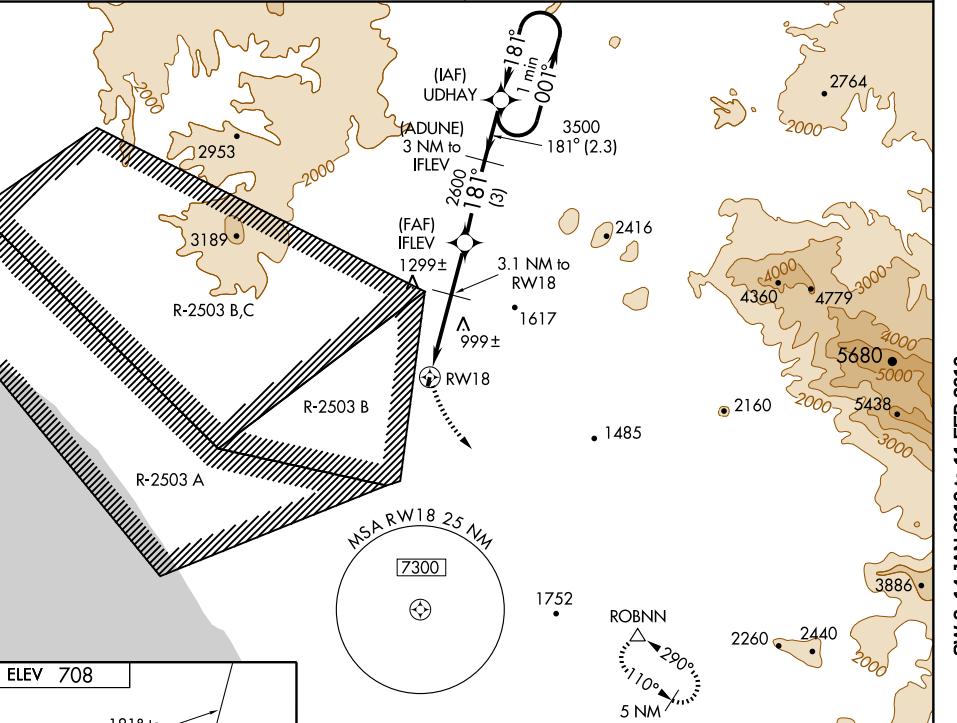
NA

Circling not authorized west of Rwy 18-36.
Obtain local altimeter setting on CTAF; when not received, use MCAS Miramar altimeter setting minimums.

MISSED APPROACH: Climbing left turn to 5000 direct ROBNN WP and hold.

SOCAL APP CON
127.3 323.0

UNICOM
123.05 (CTAF) 0



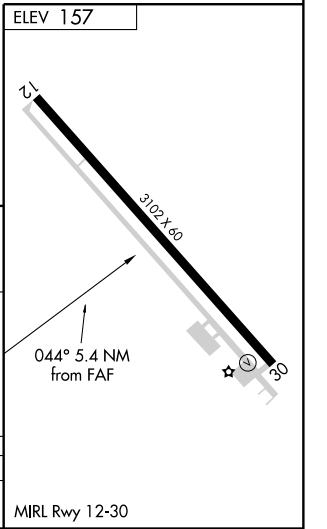
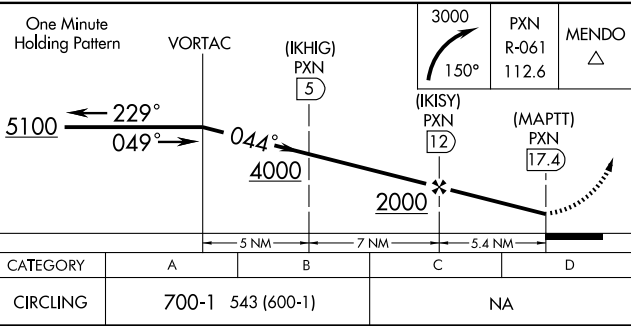
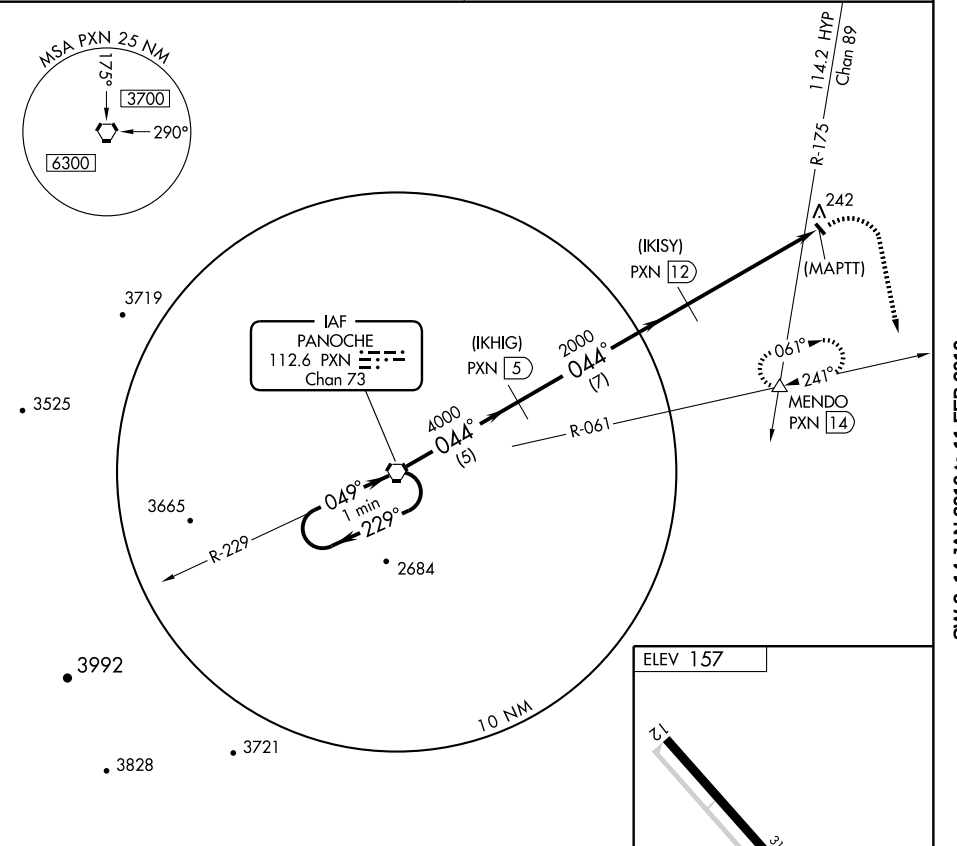
5000 		ROBNN 		UDHAY 		One Minute Holding Pattern			
 RWY18		3.1 NM to RWY18		IFLEV		3.1 NM to IFLEV		(ADUNE)	
		1840*		181°		3500		001° →	
		181° ←				4000			
		*1920 when using Miramar altimeter setting.							
3.1 NM		1.9 NM		3 NM		2.3 NM			
CATEGORY	A		B		C		D		
S-18	1260-1		552 (600-1)		NA				
CIRCLING	1260-1		552 (600-1)		NA				
MCAS MIRAMAR ALTIMETER SETTING MINIMUMS									
S-18	1360-1		652 (700-1)		NA				
CIRCLING	1360-1		652 (700-1)		NA				

SW-3, 14 JAN 2010 to 11 FEB 2010

VORTAC PXN 112.6 Chan 73	APP CRS 044°	Rwy Idg TDZE Apt Elev N/A N/A 157
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▼ ▲NA Use Madera alimeter setting.	MISSED APPROACH: Climbing right turn to 3000 via heading 150° and PXN R-061 to MENDO Int/PXN 14 DME and hold.
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NORCAL APP CON 120.95 269.45	CTAF 122.9
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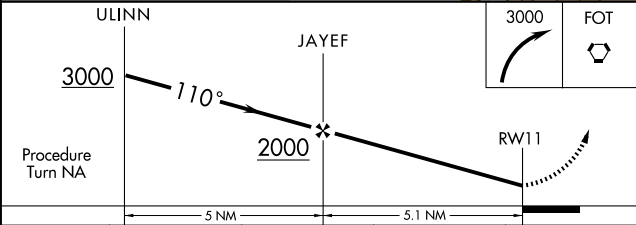
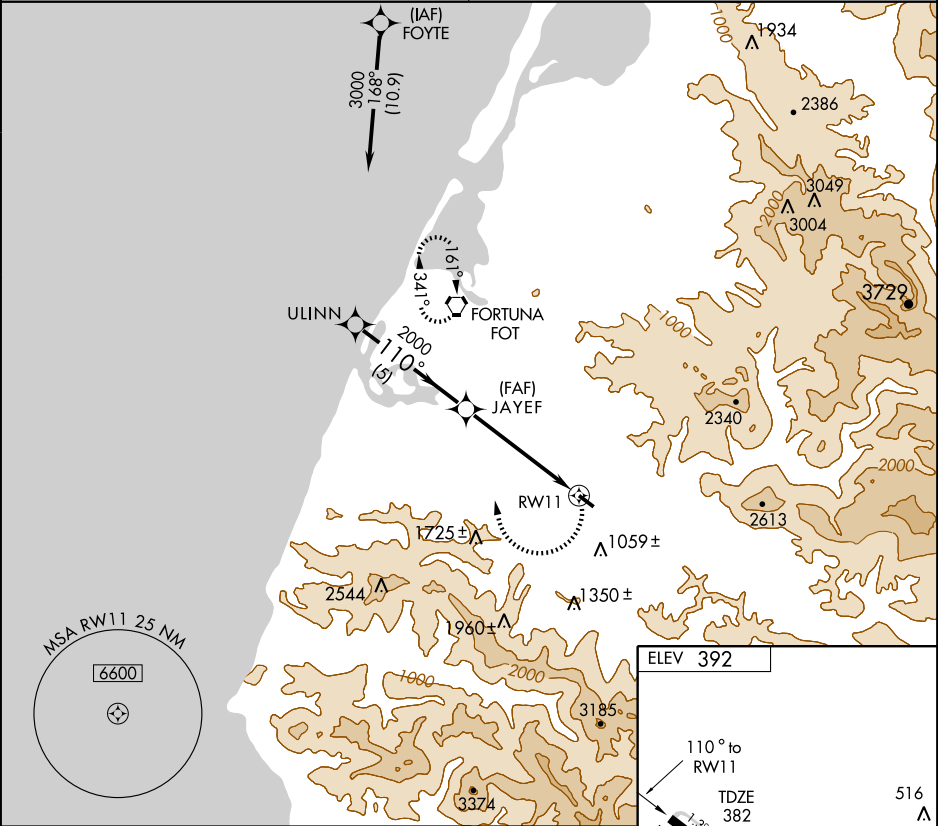
SW-2, 14 JAN 2010 to 11 FEB 2010

GPS RWY 11

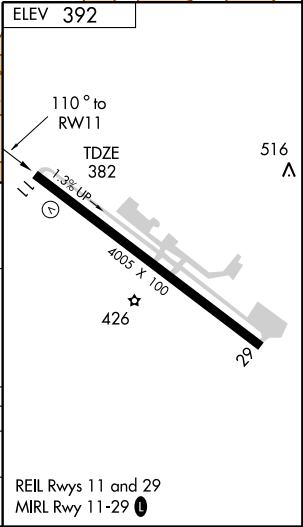
FORTUNA/ ROHNERVILLE (FOT)

APP CRS	Rwy Idg	4005
110°	TDZE	382
	Apt Elev	392

NA Use Arcata altimeter setting.	MISSED APPROACH: Climbing right turn to 3000 direct FOT VORTAC and hold.
SEATTLE CENTER 124.85 306.3	CTAF 122.90



CATEGORY	A	B	C	D
S-11	1140-1 758 (800-1)	1160-1 ¼ 778 (800-1 ¼)	1200-2 ½ 818 (900-2 ½)	1560-3 1178 (1200-3)
CIRCLING	1140-1 748 (800-1)	1160-1 ¼ 768 (800-1 ¼)	1320-2 ¾ 928 (1000-2 ¾)	1560-3 1168 (1200-3)

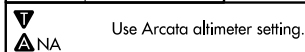


REIL Rwy 11 and 29
MIRL Rwy 11-29 0

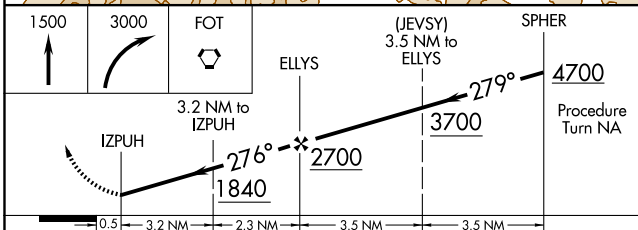
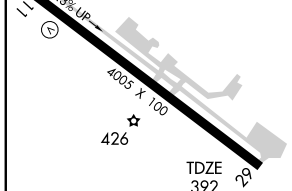
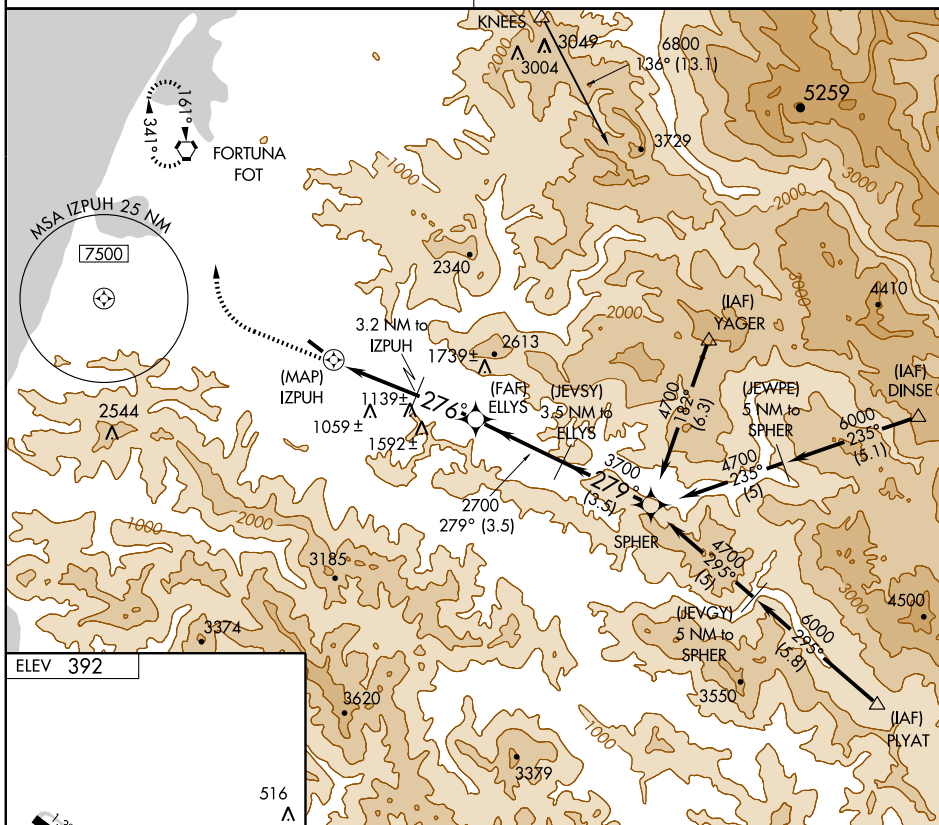
APP CRS	Rwy Idg	4005
276°	TDZE	392
	Apt Elev	392

GPS RWY 29

FORTUNA/ROHNERVILLE (FOT)



MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct FOT VORTAC and hold.

SEATTLE CENTER
124.85 306.3CTAF
122.90

CATEGORY	A	B	C	D
S-29	1160-1 768 (800-1)	1160-1¼ 768 (800-1¼)	1160-2¼ 768 (800-2¼)	1160-2½ 768 (800-2½)
CIRCLING	1160-1 768 (800-1)	1160-1¼ 768 (800-1¼)	1320-2¾ 928 (1000-2¾)	1460-3 1068 (1100-3)

REIL Rwys 11 and 29

MIRL Rwy 11-29 **L**

▼ Use Arcata altimeter setting.

▲ NA

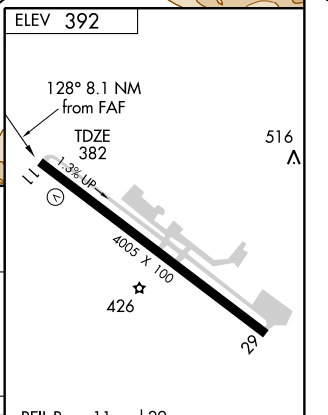
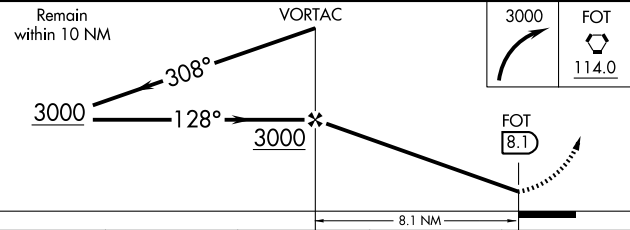
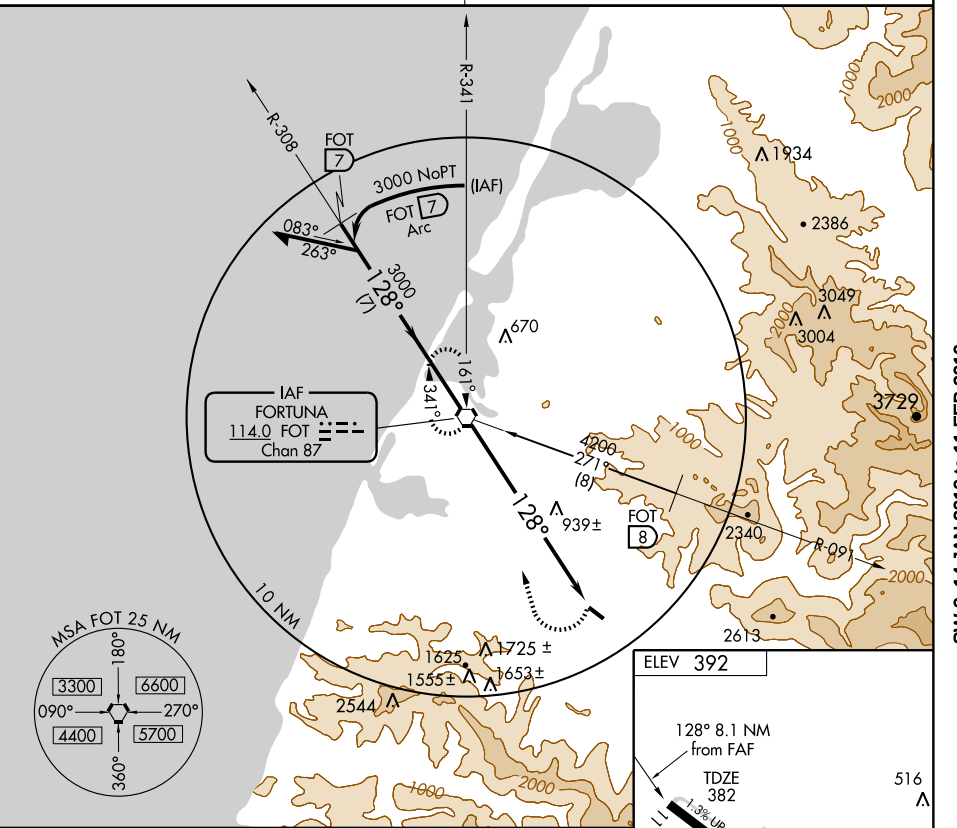
MISSED APPROACH: Climbing right turn to 3000 direct FOT VORTAC and hold.

SEATTLE CENTER

124.85 306.3

CTAF

122.90



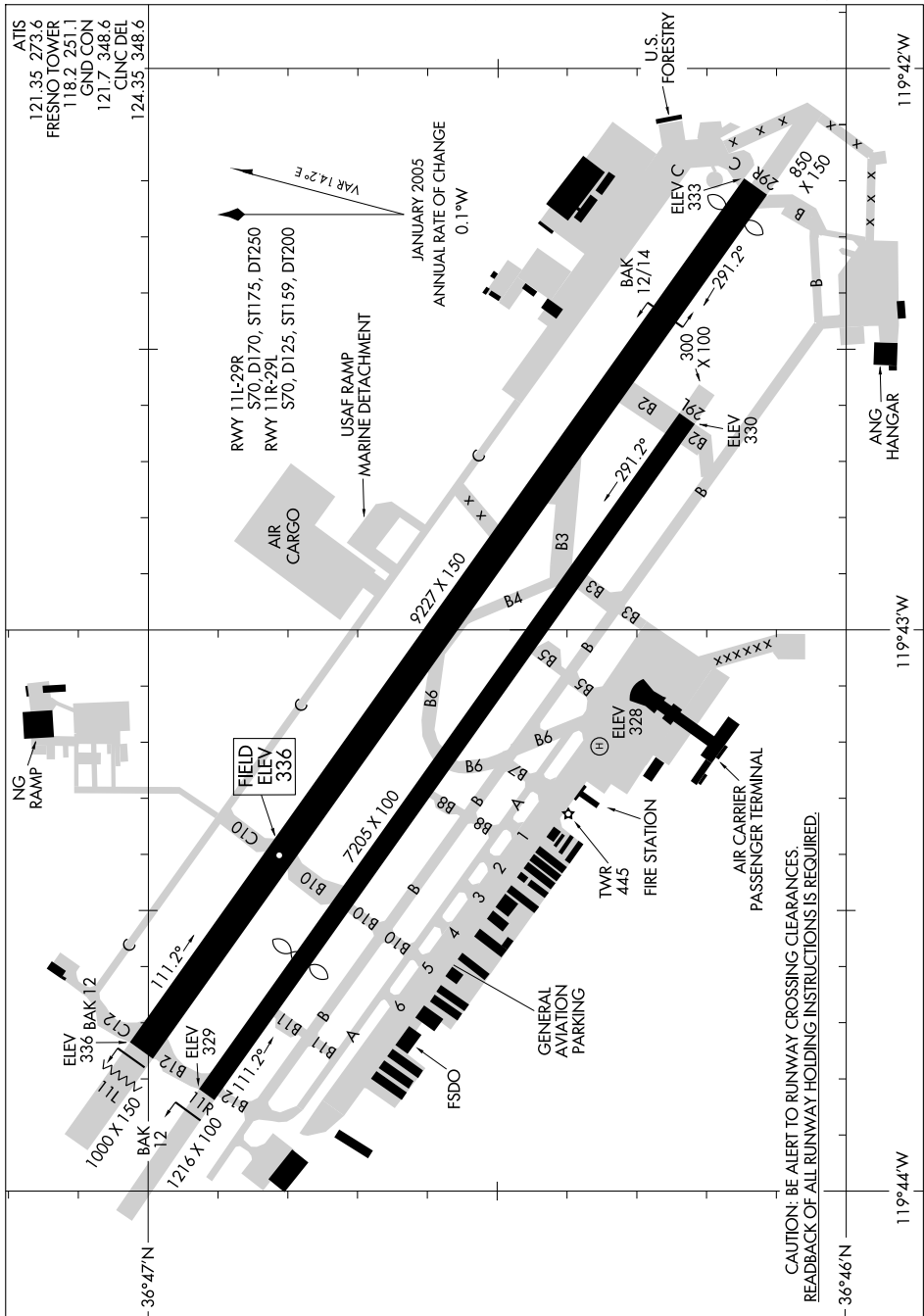
CATEGORY	A	B	C	D
S-11	1640-1¼ 1258 (1300-1¼)	1680-1½ 1298 (1300-1½)	1720-3	1338 (1400-3)
CIRCLING	1640-1¼ 1248 (1300-1¼)	1680-1½ 1288 (1300-1½)	1720-3	1338 (1400-3)

FAF to MAP 8.1 NM					
Knots	60	90	120	150	180
Min:Sec	8:06	5:24	4:03	3:14	2:42

AIRPORT DIAGRAM

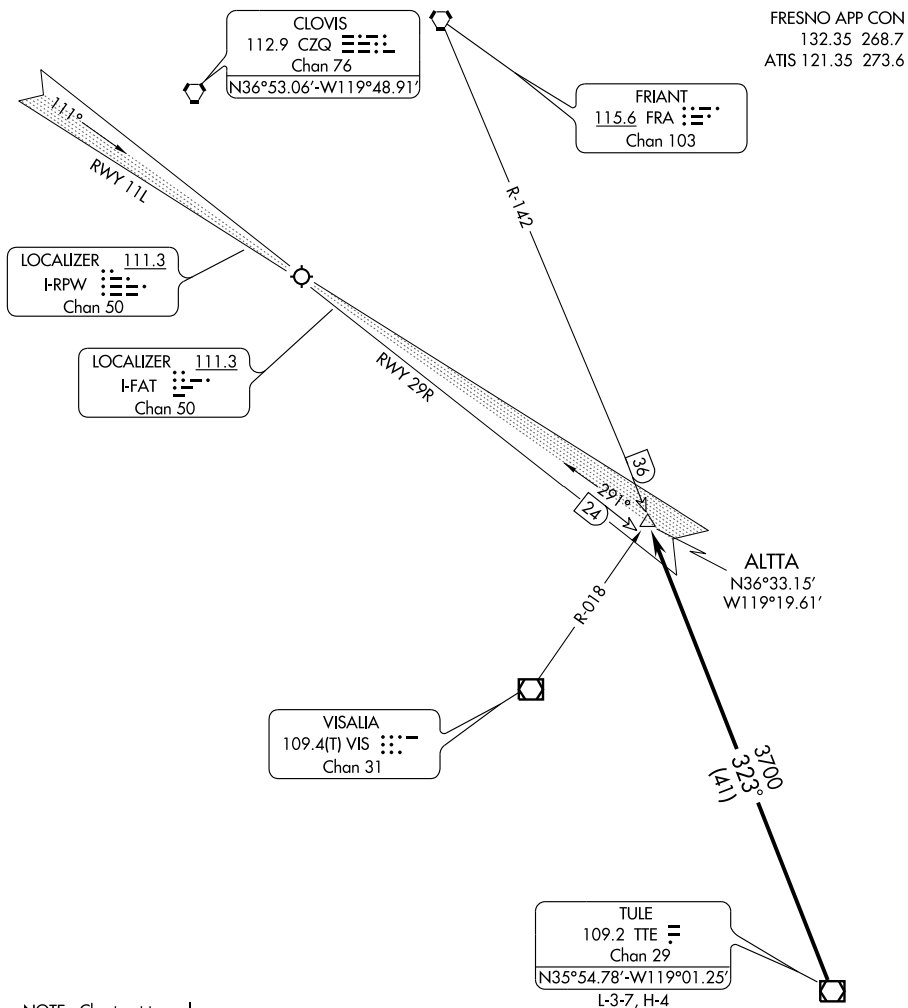
AL-162 (FAA)

FRESNO YOSEMITE INTERNATIONAL (FAT)
FRESNO, CALIFORNIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-2 14 JAN 2010 to 11 FEB 2010



NOTE: Chart not to scale.

From over TTE VOR/DME via TTE R-323 and FRA R-142 to ALTTA DME fix. Expect ILS or LOC Rwy 29R approach. For Rwy 11L operations: Expect routing via CZQ VORTAC and radar vectors to Fresno Localizer Rwy 11L approach.

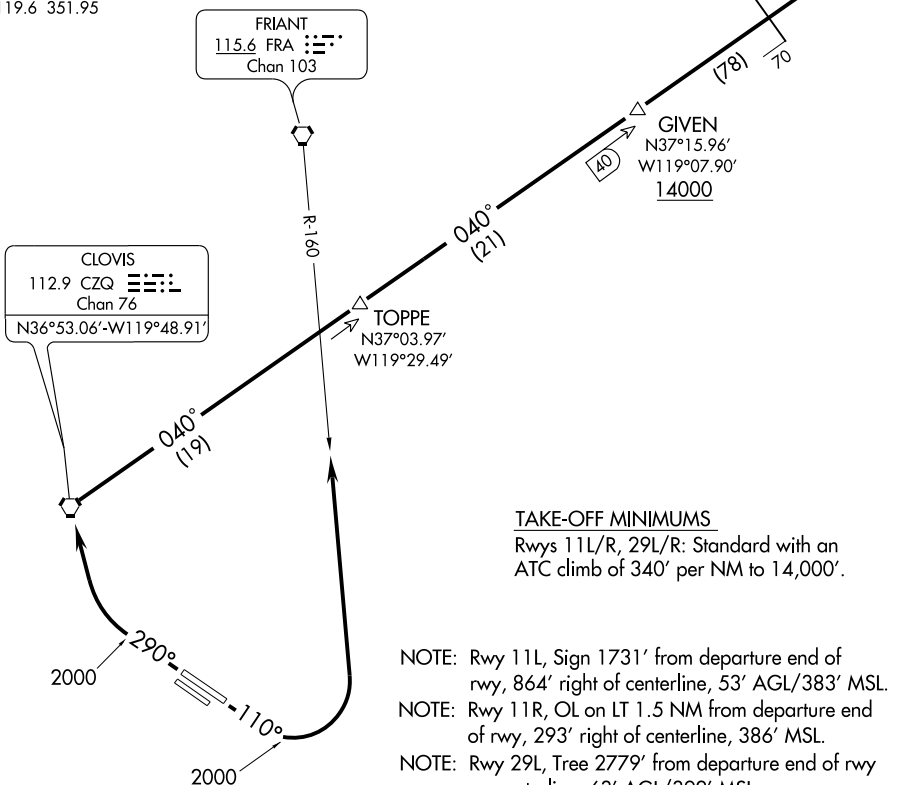
LOST COMMUNICATIONS: Rwy 11L: Execute VOR/DME or TACAN Rwy 11L approach.

COALDALE ONE DEPARTURE

SL-162 (FAA)

FRESNO YOSEMITE INTL (FAT)
FRESNO, CALIFORNIA

ATIS 121.35 273.6
CLNC DEL
124.35 348.6
GND CON
121.7 348.6
FRESNO TOWER
118.2 251.1
FRESNO DEP CON
119.6 351.95

TAKE-OFF MINIMUMS

Rwys 11L/R, 29L/R: Standard with an
ATC climb of 340' per NM to 14,000'.

NOTE: Rwy 11L, Sign 1731' from departure end of
rwy, 864' right of centerline, 53' AGL/383' MSL.

NOTE: Rwy 11R, OL on LT 1.5 NM from departure end
of rwy, 293' right of centerline, 386' MSL.

NOTE: Rwy 29L, Tree 2779' from departure end of rwy
on centerline, 63' AGL/392' MSL.

NOTE: Rwy 29R, Trees 1298' from departure end of
rwy, 775' right of centerline, 50' AGL/397' MSL.

NOTE: Chart not to scale.

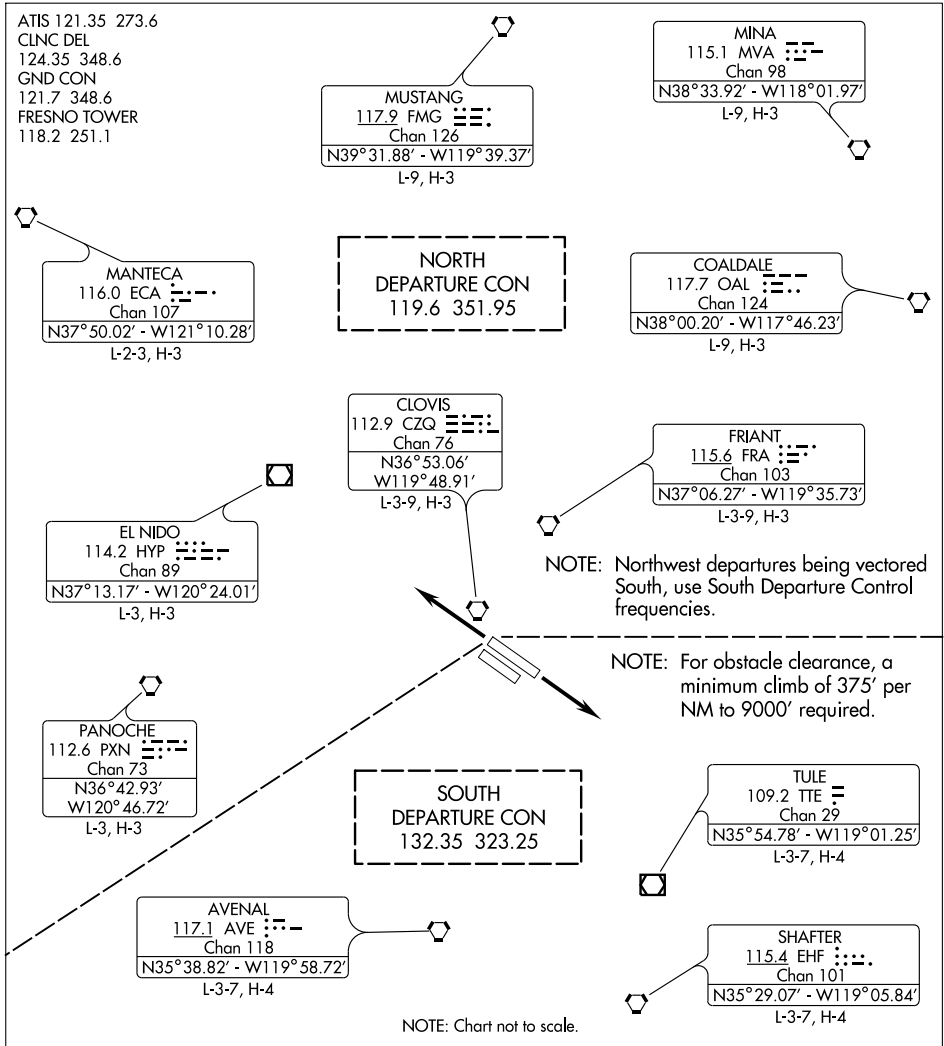
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11L/R: Climb via 110° heading to 2000', then climbing left turn
via FRA R-160 and CZQ R-040. Thence

TAKE-OFF RUNWAYS 29L/R: Climb via 290° heading to 2000', then climbing
right turn direct CZQ VORTAC. Thence

. . . . Intercept and proceed via CZQ R-040 and OAL R-219 to OAL VORTAC.
Cross GIVEN DME at or above 14000'. Expect clearance to filed altitude after
GIVEN DME.

FRESNO FIVE DEPARTURE



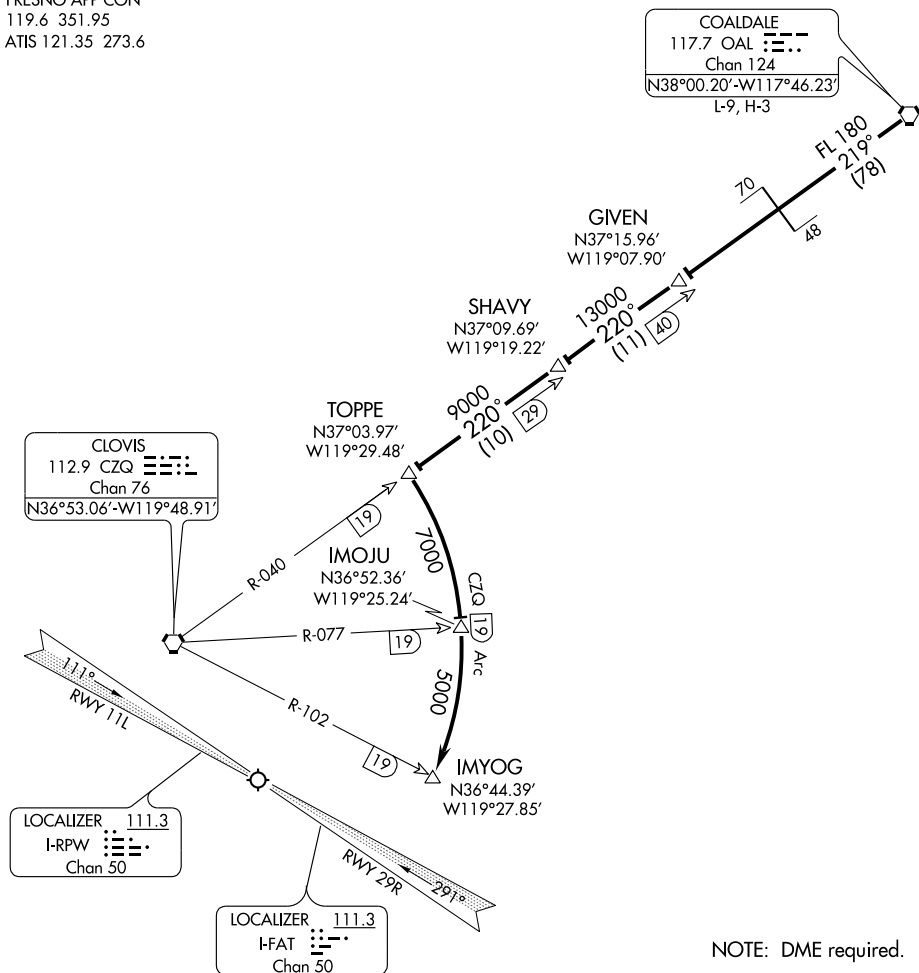
SW-2, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11L/R AND 29L/R: Fly runway heading for vectors to assigned route/fix. Expect clearance to filed altitude five minutes after departure.

LOST COMMUNICATIONS: If no radio contact for two minutes, aircraft enroute to FRA, MVA, FMG and OAL proceed direct CZQ VORTAC, then direct FRA VORTAC, cross FRA VORTAC at or above 9000', thence via (assigned route) to filed altitude.

FRESNO APP CON
119.6 351.95
ATIS 121.35 273.6



From over OAL VORTAC via OAL R-219 and CZQ R-040 to TOPPE DME fix, thence

. . . . RWY 11L: arrivals can expect radar vectors from TOPPE DME fix to FRESNO Rwy 11L localizer.

. . . . RWY 29R: south via CZQ 19 DME arc to IMYOG R-102/19 DME, then via radar vectors to intercept the FRESNO ILS Rwy 29R localizer course.

LOC/DME I-FAT 111.3 Chan 50	APCH CRS 291°	Rwy Idg 29R 8915 29L 7205 TDZE 29R 333 29L 330 Arpt Elev 336
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JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

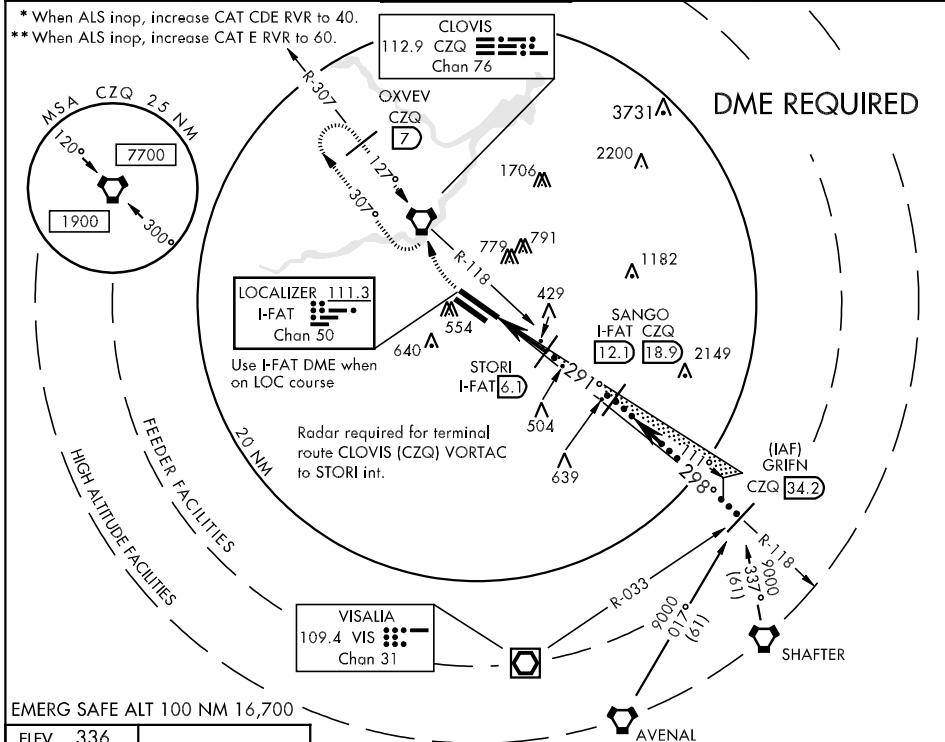


MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft continue climb to 3000 via CZQ R-307 to OXVEV/7 DME and hold northwest, right turns, 127° inbound).

ATIS 121.35 273.6	FRESNO APP CON 132.35 323.25	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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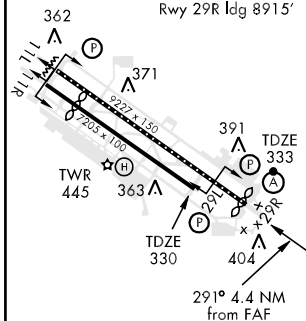
* When ALS inop, increase CAT CDE RVR to 40.

**** When ALS inop, increase CAT E RVR to 60.**

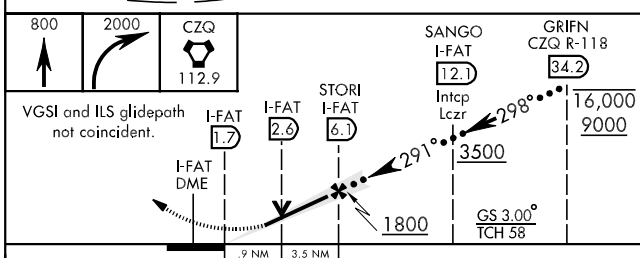


EMERG SAFE ALT 100 NM 16,700

ELEV 336	Rwy 11R Idg 5757'
342	Rwy 29R Idg 8915'



REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/CL Rwy 29R



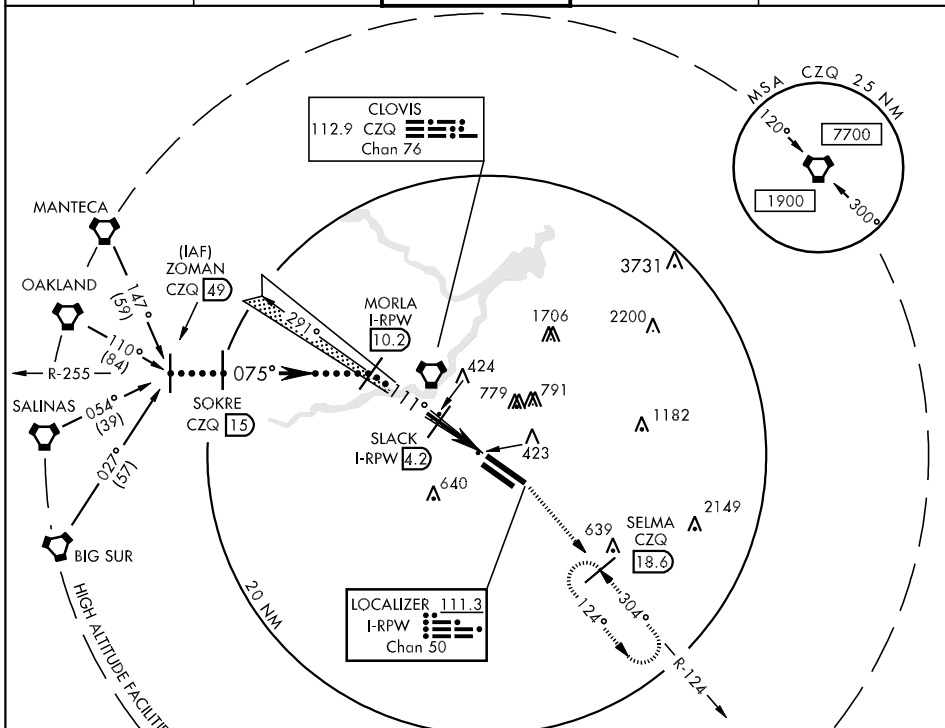
CATEGORY	C	D	E
S-ILS 29R *	533/18 200 (200- 3)		533/24 200 (200- 1)
S-LOC 29R**	680/24 347 (400- 1)	680/40 347 (400- 3)	
SIDE STEP RWY 29L	680-1½ 350 (400-1½)	680-2 350 (400-2)	
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2½ 804 (900-2½)

LOC/DME I-RPW 111.3 Chan 50	APCH CRS 111°	Rwy Idg TDZE Arpt Elev	11L 9227 11L 336 336	11R 5757 11R 333 333
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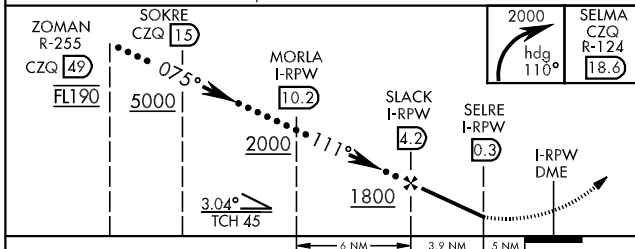
JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

MISSED APPROACH: Climb to 2000 via heading 110° and CZQ R-124 to SELMA 18.6 DME and hold.

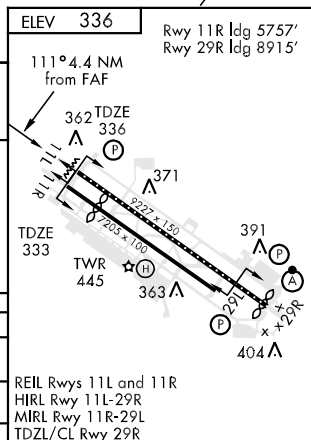
ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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EMERG SAFE ALT 100 NM 16,700



CATEGORY	C	D	E
S-11L	680/50 344 (400-1)	680/60 344 (400-1½)	
SIDE STEP RWY 11R	680-1½ 347 (400-1½)	680-2 347 (400-2)	
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)



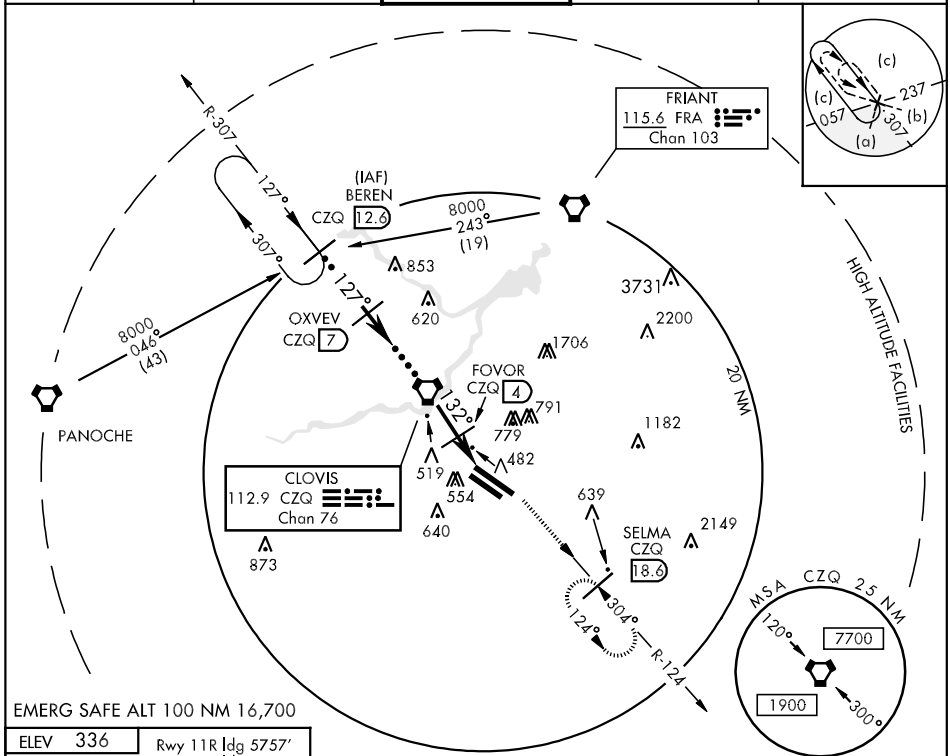
VORTAC CZQ 112.9 Chan 76	APCH CRS 132°	Rwy Idg TDZE 11L 336 Arpt Elev 336	11R 5757 333
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JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

▼	
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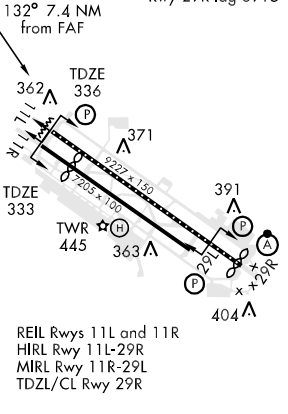
MISSED APPROACH: Climbing left turn to 2000 via CZQ R-124 to SELMA 18.6 DME and hold.

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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EMERG SAFE ALT 100 NM 16,700

ELEV 336	Rwy 11R Idg 5757' Rwy 29R Idg 8915'
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REIL Rws 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/CL Rwy 29R

BEREN CZQ R-307 12.6		OXVEV 7		VGS1 and descent angles not coincident		2000 SELMA CZQ 18.6 CZQ R-124	
10,000 8000		4800		2700		1400	
2.99°		TCH 45		4 NM		2 NM	
CATEGORY		C		D		E	
S-11L		800/60 464 (500-1½)		800-1½ 464 (500-1½)		800-1¾ 464 (500-1¾)	
SIDESTEP 11R		800-1½ 467 (500-1½)		800-2		467 (500-2)	
CIRCLING		820-1½ 484 (500-1½)		920-2 584 (600-2)		1140-2¾ 804 (900-2¾)	

VORTAC CZQ 112.9 Chan 76	APCH CRS 306°	Rwy Idg 29R 8915 TDZE 29R 333 Arpt Elev 336	29L 7205 330
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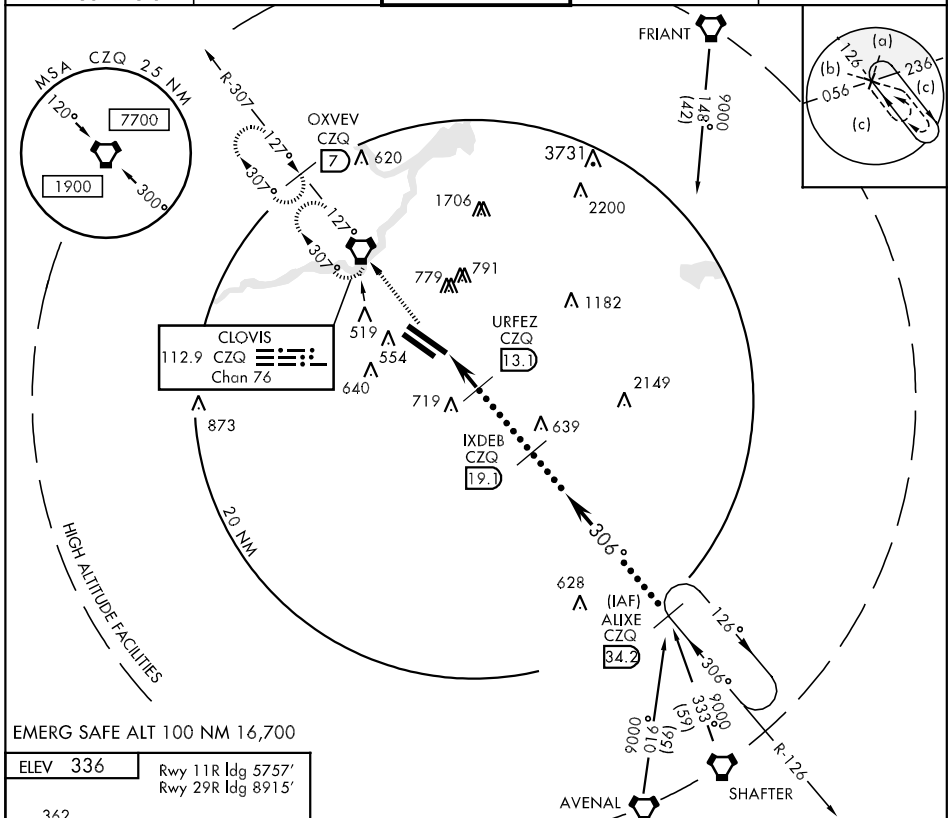
JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

▼ *When ALS inop, increase CAT C
RVR to 60, CAT DE vis to 1½.

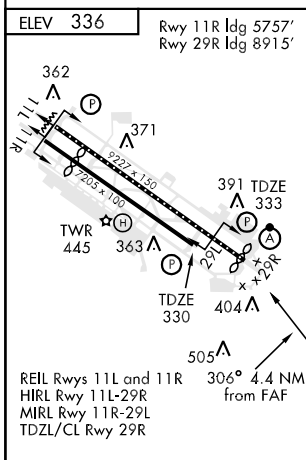


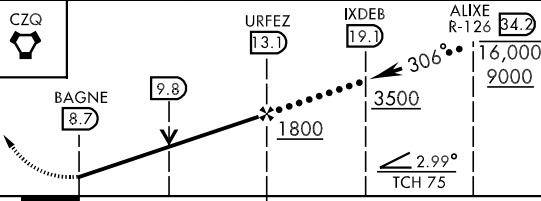
MISSED APPROACH: Climb to 2000 via CZQ VORTAC R-126 to CZQ VORTAC and hold. (TACAN acft continue climb to 3000 via CZQ R-307 to OXVEV 7 DME and hold NW, RT 127° inbound).

ATIS 121.35 273.6	FRESNO APP CON 132.35 323.25	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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EMERG SAFE ALT 100 NM 16,700



2000  R-126	CZQ 																				
<table><tr><th>CATEGORY</th><th>C</th><th>D</th><th>E</th></tr><tr><td>S-29R*</td><td>760/40 427 (500-¾)</td><td>760/50</td><td>427 (500-1)</td></tr><tr><td>SIDESTEP 29L</td><td>760-1½ 430 (500-1½)</td><td>760-2</td><td>430 (500-2)</td></tr><tr><td>CIRCLING</td><td>820-1½ 484 (500-1½)</td><td>920-2 584 (600-2)</td><td>1140-2¾ 804 (900-2¾)</td></tr></table>						CATEGORY	C	D	E	S-29R*	760/40 427 (500-¾)	760/50	427 (500-1)	SIDESTEP 29L	760-1½ 430 (500-1½)	760-2	430 (500-2)	CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)
CATEGORY	C	D	E																		
S-29R*	760/40 427 (500-¾)	760/50	427 (500-1)																		
SIDESTEP 29L	760-1½ 430 (500-1½)	760-2	430 (500-2)																		
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)																		

▼

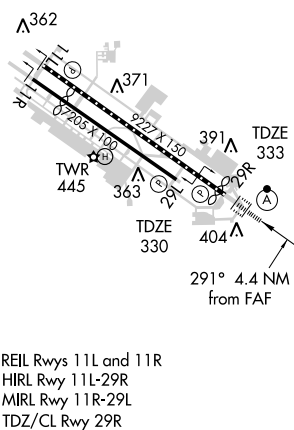
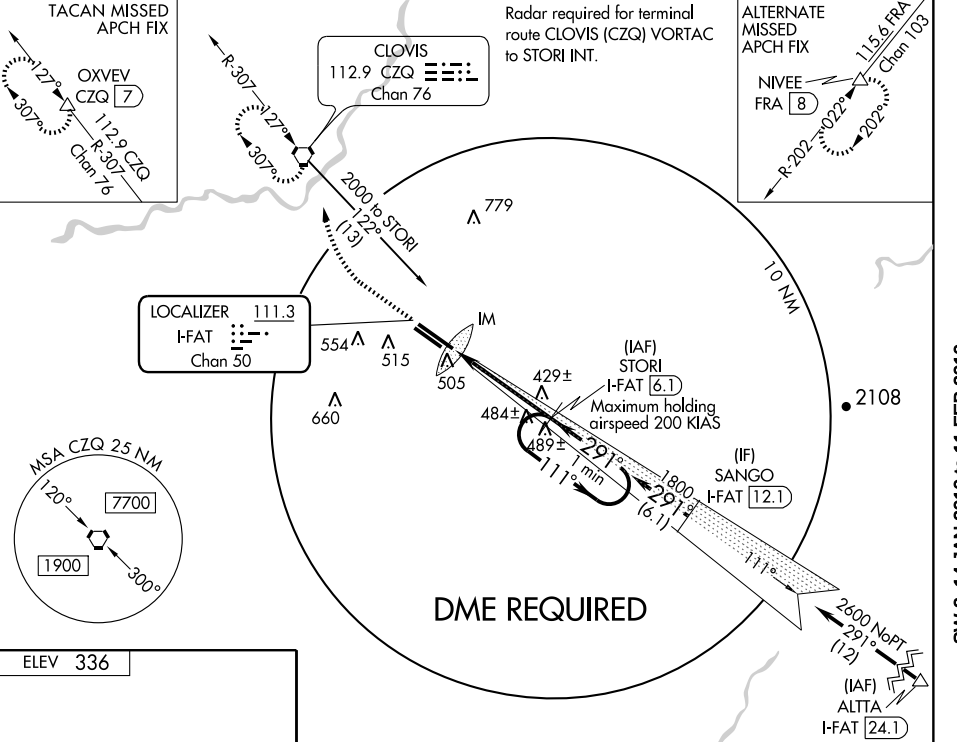
▲

For inoperative ALSF-2, increase S-ILS Cat E visibility to RVR 4000 and S-LOC Cat E visibility to RVR 6000. Hold in lieu of PT not authorized for Cat E aircraft.

ALSF-2
Rwy 29R

MISSED APPROACH: Climb to 800, then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft climb to 3000 via CZQ VORTAC R-307 to OXVEV/ CZQ 7 DME and hold NW, RT, 127° inbound.)

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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800	2000	CZQ 112.9	STORI I-FAT 6.1	VGSI and ILS glidepath not coincident	One Minute Holding Pattern
		I-FAT 2.6	1800	111°	1800
	IM	I-FAT 1.7	1800	291°	1800
0.1	0.8	3.5 NM	GS 3.00° TCH 58		
CATEGORY	A	B	C	D	E
S-ILS 29R	533/18 200 (200-½)				533/24 200 (200-½)
S-LOC 29R	680/24 347 (400-½)			680/40 347 (400-¾)	
SIDESTEP RWY 29L	740-1	410 (500-1)	740-1½ 410 (500-1½)	740-2	410 (500-2)
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

LOC/DME I-FAT
111.3
Chan **50**

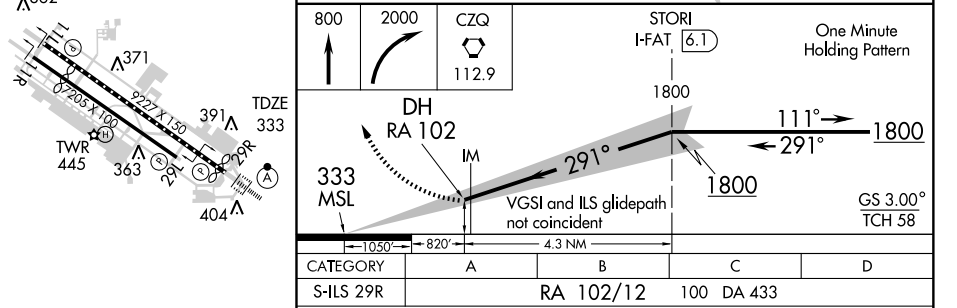
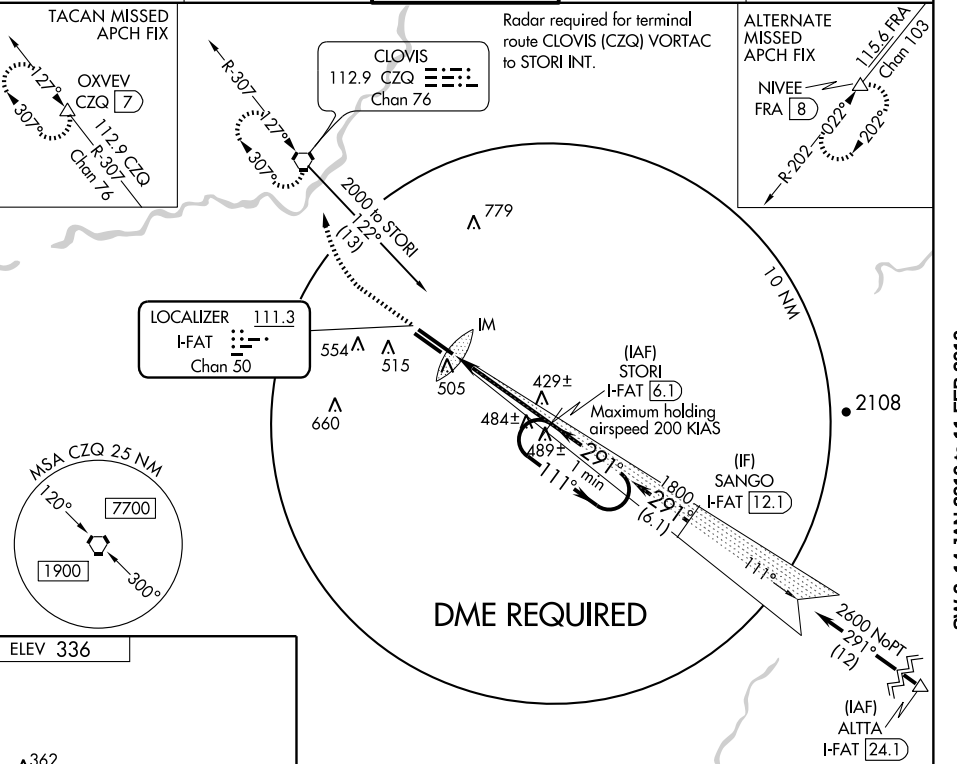
APP CRS
291°

Rwy Idg
TDZE
Apt Elev
8915
333
336

ALSF-2

MISSED APPROACH: Climb to 800, then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft climb to 3000 via CZQ VORTAC R-307 to OXVEV/CZQ 7 DME and hold NW, RT, 127° inbound.)

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-2, 14 JAN 2010 to 11 FEB 2010

LOC/DME I-FAT
111.3
Chan **50**

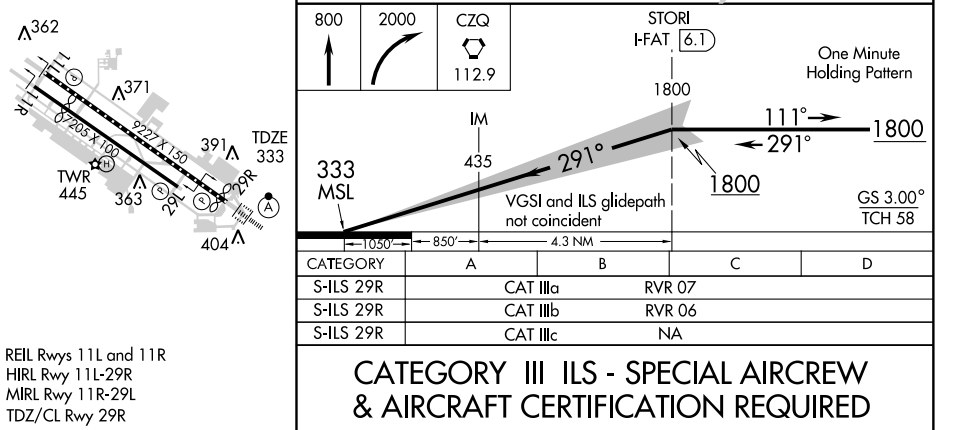
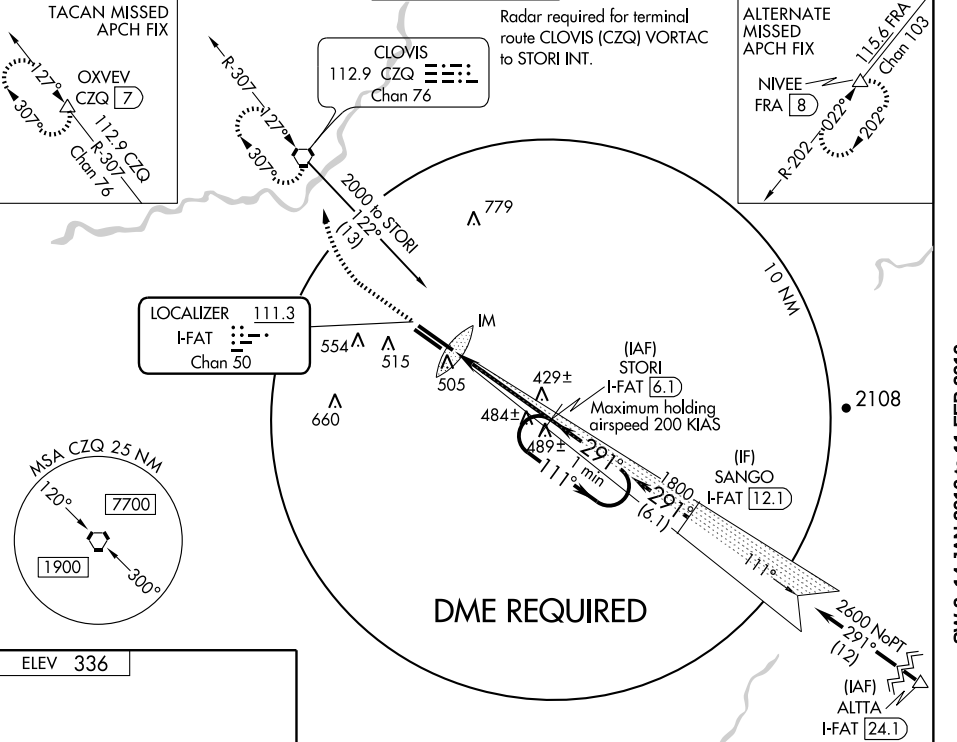
APP CRS
291°

Rwy Idg
TDZE
Apt Elev
8915
333
336

ALSIF-2

MISSED APPROACH: Climb to 800, then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft climb to 3000 via CZQ VORTAC R-307 to OXVEV/CZQ 7 DME and hold NW, RT, 127° inbound.)

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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SW-2, 14 JAN 2010 to 11 FEB 2010

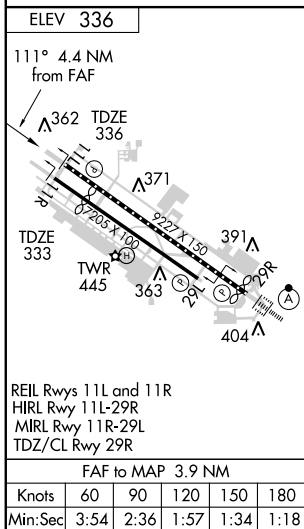
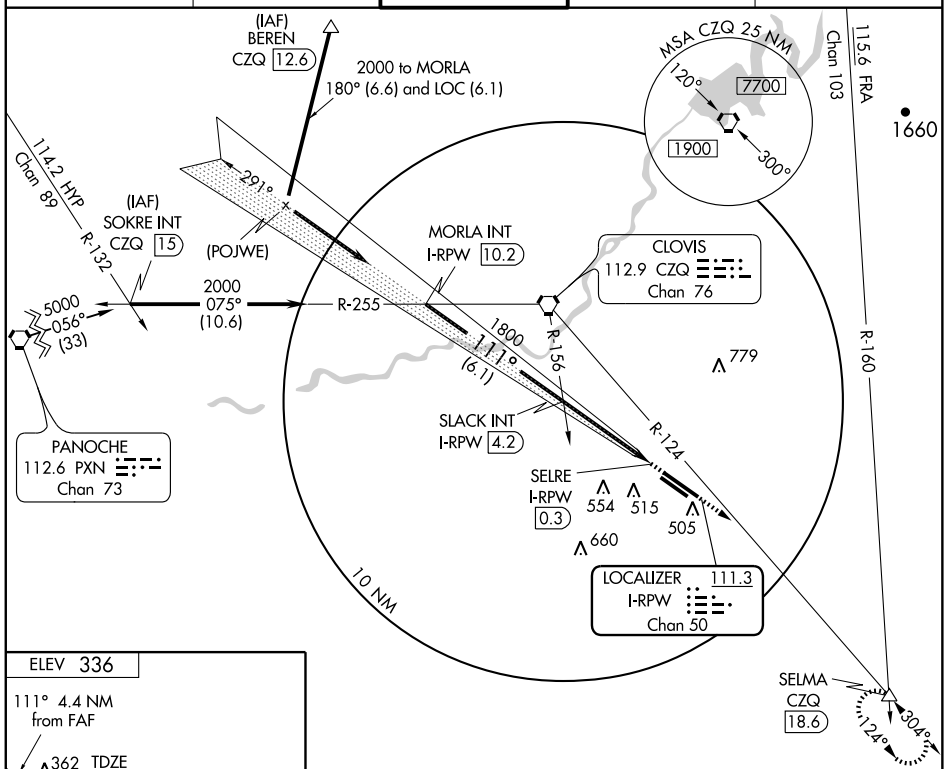
LOC/DME I-RPW 111.3 Chan 50	APP CRS 111°	Rwy 11L Idg 9227 TDZE 336 Apt Elev 336	Rwy 11R Idg 5757 TDZE 333 Apt Elev 336
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LOC RWY 11L

FRESNO YOSEMITE INTL (FAT)

MISSED APPROACH: Climb to 2000 via heading 111° and CZQ R-124 to SELMA and hold.	
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ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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	MORLA INT I-RPW 10.2	VGSI and descent angles not coincident.	2000	CZQ R-124 112.9	SELMA
	2000	SLACK INT I-RPW 4.2	SELRE I-RPW 0.3		
	Procedure Turn NA	3.04° TCH 45			
	6.1 NM	3.9 NM	0.5		
CATEGORY	A	B	C	D	E
S-11L	680/50	344 (400-1)		680/60	344 (400-1¼)
SIDESTEP 11R	680-1	347 (400-1)	680-1½ 347 (400-1½)	680-2	347 (400-2)
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2	1140-2¾ 804 (900-2¾)

WAAS CH 77505 W11A	APP CRS 111°	Rwy Idg TDZE Apt Elev	9227 336 336
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RNAV (GPS) RWY 11L
FRESNO YOSEMITE INTL (FAT)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).

MISSED APPROACH: Climb to 2000 direct MUPRE and
via 125° track to SELMA and hold.

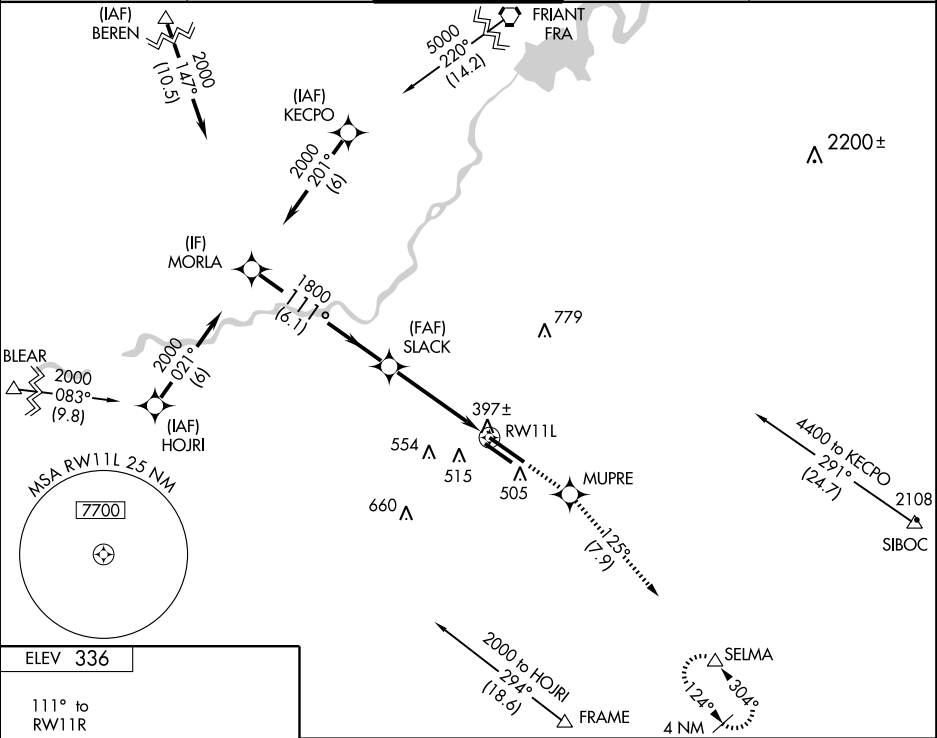
ATIS
121.35 273.6

FRESNO APP CON
119.6 351.95

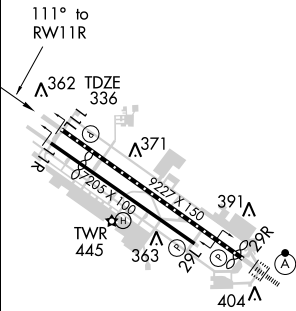
FRESNO TOWER
118.2 251.1

GND CON
121.7 348.6

CLNC DEL
124.35 348.6



ELEV 336



REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R

MORLA		2000	MUPRE	125° track	SELMA △
VGSi and descent angles not coincident.					
Procedure Turn NA		SLACK	* 1 NM to RWY 11L		* LNAV only
GS 3.00° TCH 45°		1800			
6.1 NM		3.4 NM	1 NM		
CATEGORY	A	B	C	D	
LPV DA	590/50 254 (300-1)				
LNAV/VNAV DA	760-1½ 424 (500-1½)				
LNAV MDA	680/50 344 (400-1)				680/60 344 (400-1¼)
CIRCLING	820-1 484 (500-1)		820-1½ 484 (500-1½)		920-2 584 (600-2)

APP CRS 113°	Rwy Idg TDZE Apt Elev	5757 333 336
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RNAV (GPS) RWY 11R

FRESNO YOSEMITE INTL (FAT)

T	DME/DME RNP-0.3 NA. Straight-in minimums NA at night.
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MISSED APPROACH: Climb to 2000 direct MODSE and via 124° track to SELMA and hold.

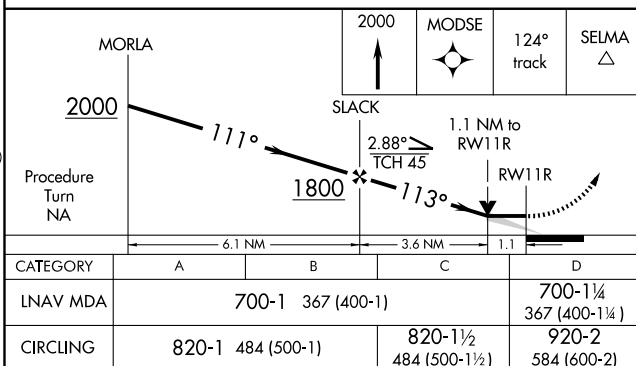
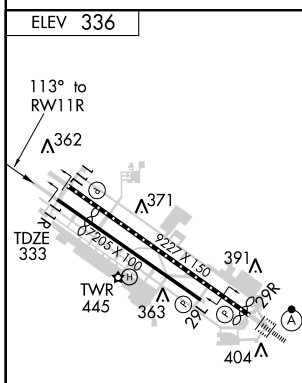
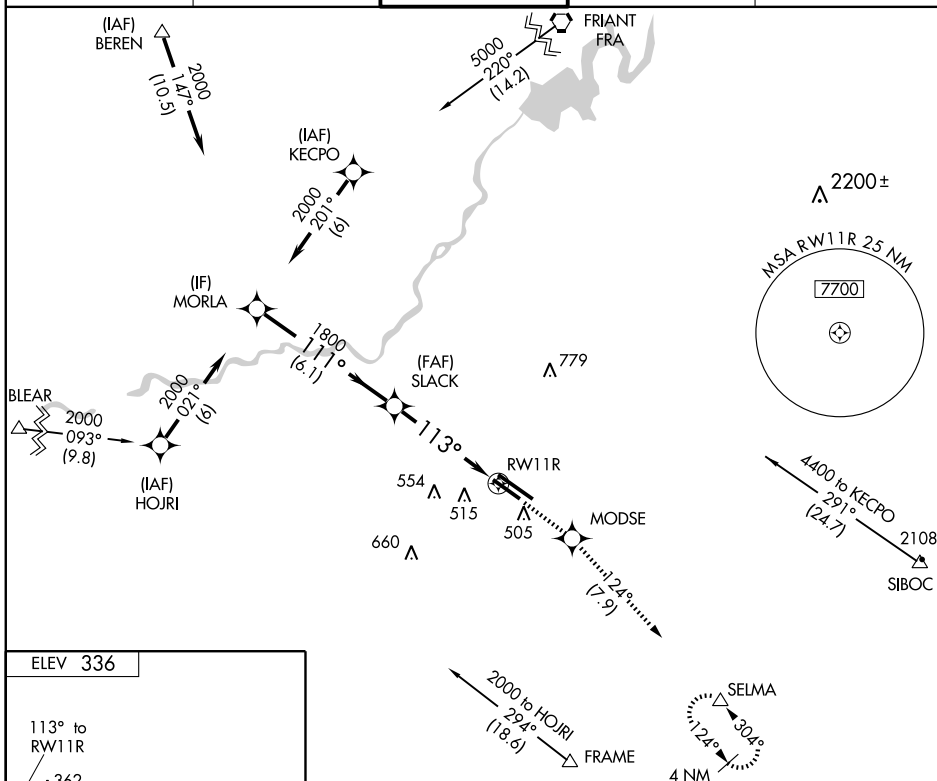
ATIS
121.35 273.6

FRESNO APP CON
119.6 351.95

FRESNO TOWER
118.2 251.1

GND CON
121.7 348.6

CLNC DEL
124.35 348.6



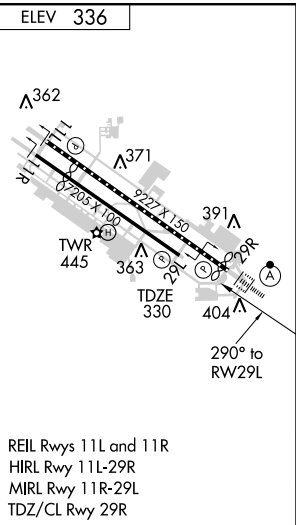
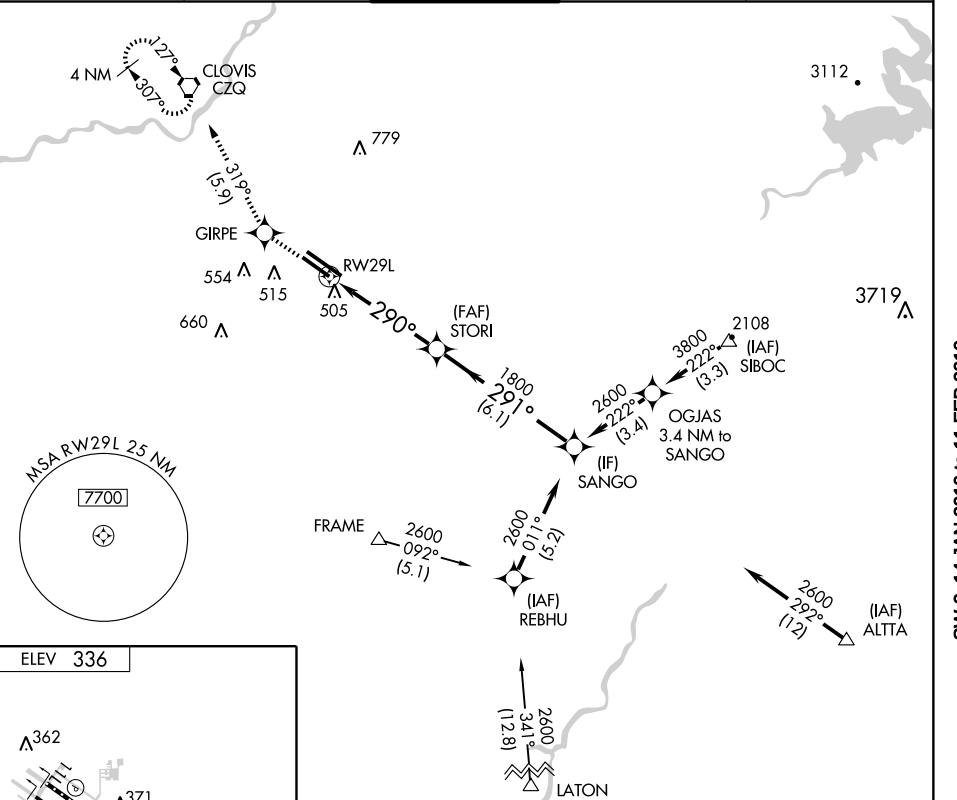
REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R

▼

DME/DME RNP-0.3 NA.
Straight-in minimums NA at night.

MISSED APPROACH: Climb to 2000 direct GIRPE
and via 319° track to CZQ VORTAC and hold.

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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	2000	GIRPE	319° track	CZQ	
				STORI	SANGO
					2600
					Procedure Turn NA
CATEGORY	A	B	C	D	
LNAV MDA	760-1	430 (500-1)	760-1¼ 430 (500-1¼)	760-1½ 430 (500-1½)	
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2 584 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

VORTAC CZQ	APP CRS	11L	11R
112.9		9227	5757
Chan 76	132°	TDZE 336	333
		Apt Elev 336	336

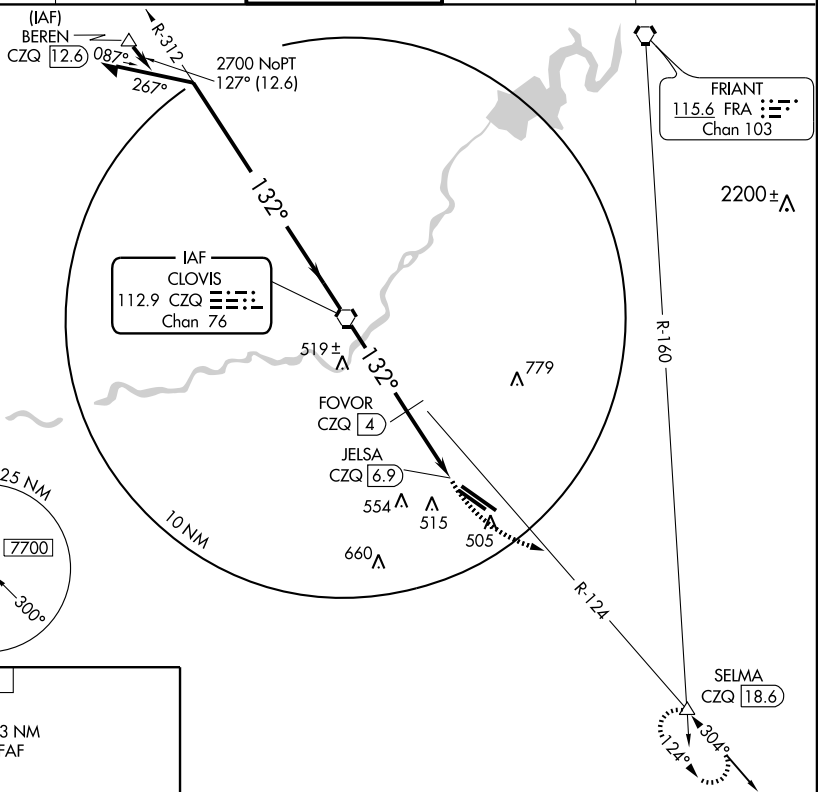
VOR/DME or TACAN RWY 11L

FRESNO YOSEMITE INTL (FAT)



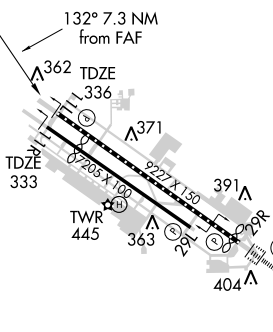
MISSED APPROACH: Climbing left turn to 2000 via CZQ VORTAC R-124 to SELMA/CZQ 18.6 DME and hold.

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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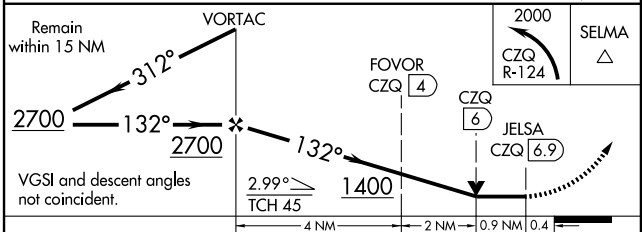


SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 336



REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R



CATEGORY	A	B	C	D	E
S-11L	800-50	464 (500-1)	800/60 464 (500-1¼)	800-1½ 464 (500-1½)	800-1¾ 464 (500-1¾)
SIDESTEP 11R	800-1	467 (500-1)	800-1½ 467 (500-1½)	800-2	467 (500-2)
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2 584 (900-2)	1140-2¾ 804 (900-2¾)

VOR/DME or TACAN RWY 29R

FRESNO YOSEMITE INTL (FAT)

MISSED APPROACH: Climb to 2000 via CZQ R-126 to CZQ VORTAC and hold. (TACAN aircraft continue climb to 3000 via CZQ R-307 to OXVEV/7 DME and hold (NW, RT, 127° inbound).

The diagram illustrates a 1800° holding pattern. Key elements include:

- Altitude:** 2000 feet.
- Pattern Type:** One Minute Holding Pattern.
- Legs and Turns:** The pattern consists of two legs with a 306° turn between them.
- Distance Markers:** 1.1 NM, 3.3 NM, and 6 NM.
- Waypoints and Altitudes:**
 - BAGNE CZQ 8.7
 - CZQ 9.8
 - URFEZ CZQ 13.1
 - IXDEB CZQ 19.1
- Table:** A table with 6 columns (CATEGORY, A, B, C, D, E) and 4 rows of data.

CATEGORY	A	B	C	D	E
S-29R	760/24 427 (500-½)		760/40 427 (500-¾)	760/50 427 (500-1)	
SIDESTEP 29L	760-1 430 (500-1)		760-1½ 430 (500-1½)	760-2 430 (500-2)	
CIRCLING	820-1 484 (500-1)		820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

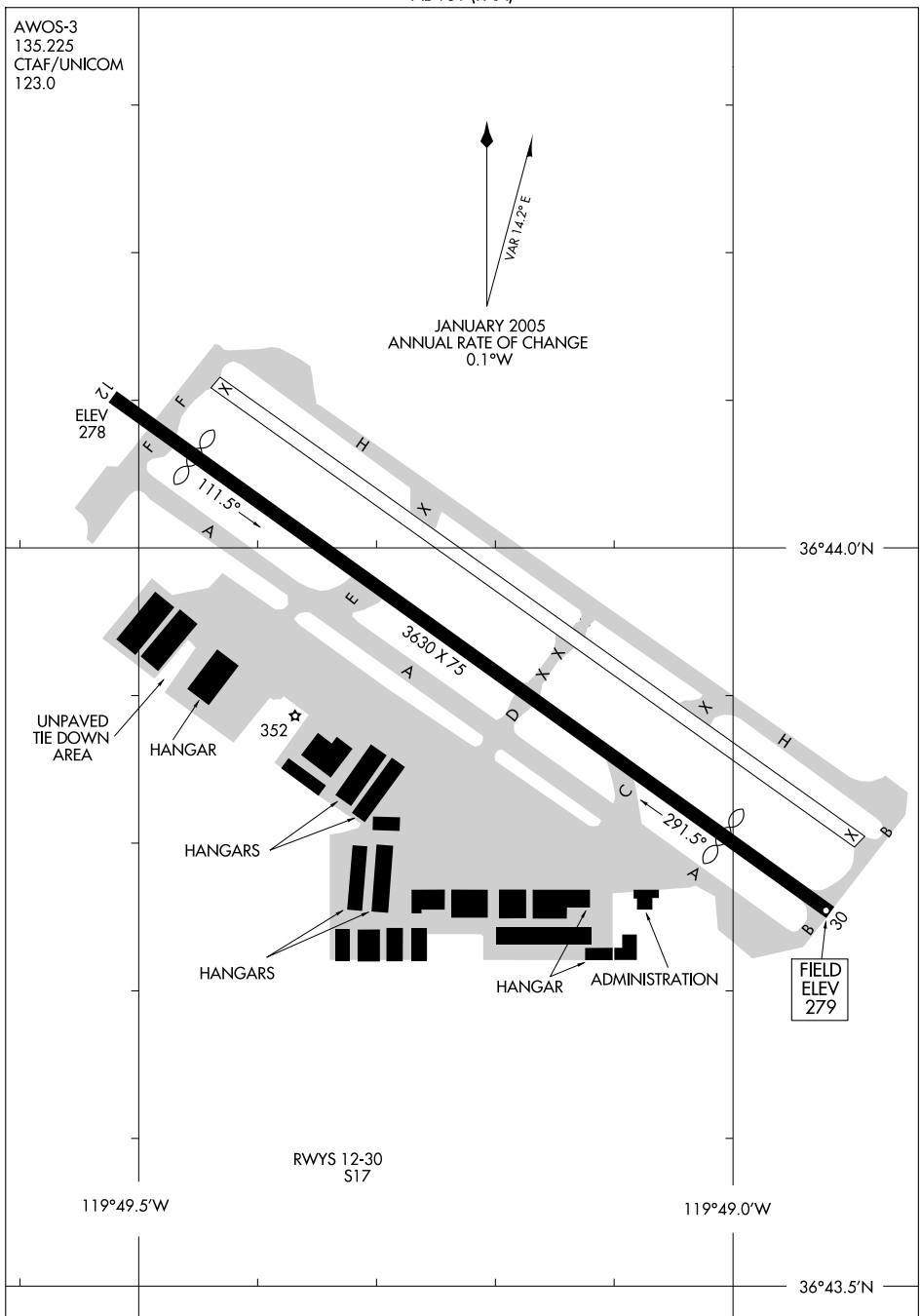
SW-2: 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-161 (FAA)

FRESNO CHANDLER EXECUTIVE (FCH)
FRESNO, CALIFORNIA

AWOS-3
135.225
CTAF/UNICOM
123.0



SW-2 14 JAN 2010 to 11 FEB 2010

GPS RWY 12

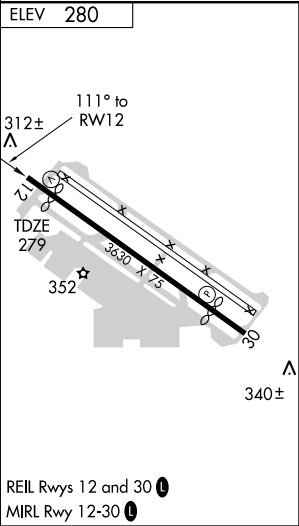
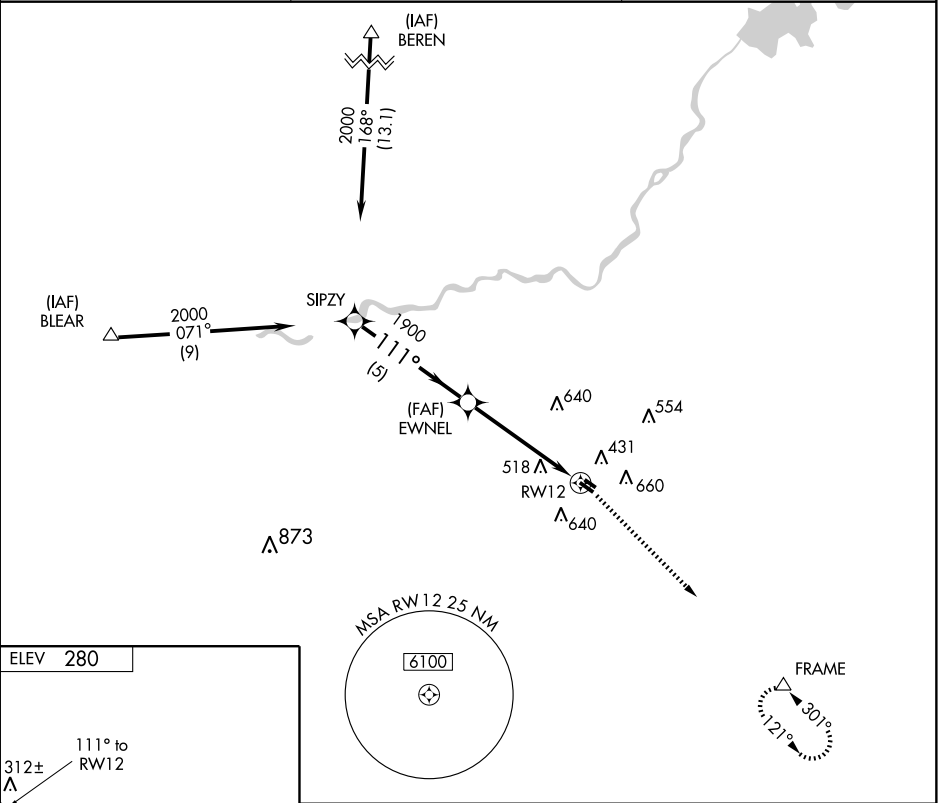
FRESNO CHANDLER EXECUTIVE (FCH)

APP CRS	Rwy Idg	3212
111°	TDZE	279
	Apt Elev	280

NA If local altimeter setting not received, use Fresno Yosemite Init altimeter setting and increase all MDAs 20 feet.

MISSED APPROACH: Climbing right turn to 2000 direct FRAME WP and hold.

AWOS-3 135.225	FRESNO APP CON 119.0 323.25	UNICOM 123.0 (CTAF) 0
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2000 FRAME 2000 FRAME				
SIPZY 2000 111° EWNEL 1900 2.98° TCH 40 RW12				
5 NM 5 NM				
CATEGORY	A	B	C	D
S-12	820-1	541 (600-1)	820-1½ 541 (600-1½)	NA
CIRCLING	1020-1	740 (800-1)	1020-2 740 (800-2)	NA

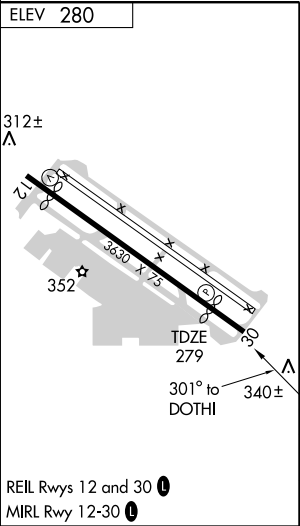
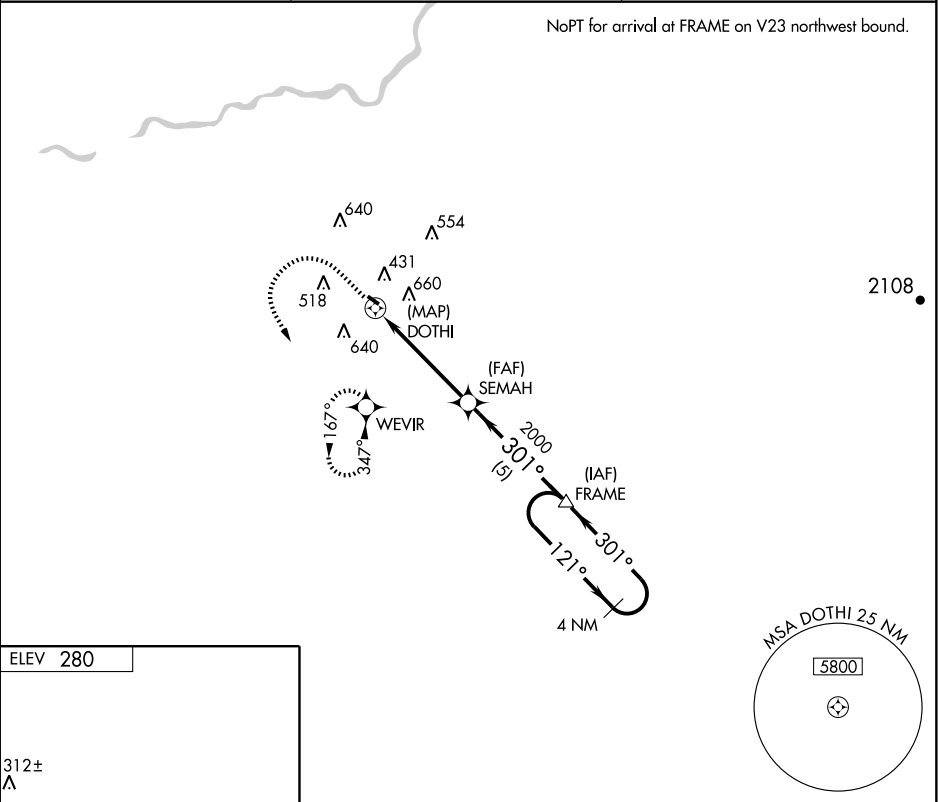
APP CRS	Rwy Idg	3090
301°	TDZE	279
	Apt Elev	280

GPS RWY 30
FRESNO CHANDLER EXECUTIVE (FCH)

 NA	If local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all MDAs 20 feet.	MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct WEVIR WP and hold.
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AWOS-3 135.225	FRESNO APP CON 119.0 323.25	UNICOM 123.0 (CTAF) 
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NoPT for arrival at FRAME on V23 northwest bound.



1000 ↑ 2000 ↷ WEVIR SEMAH FRAME 4 NM Holding Pattern VGSI and descent angle not coincident. DOTHI 3.30° TCH 40 301° 121° 301° 2000 4.8 NM 5 NM				
CATEGORY	A	B	C	D
S-30	900-1	621 (700-1)	900-1¾ 621 (700-1¾)	NA
CIRCLING	1020-1	740 (800-1)	1020-2 740 (800-2)	NA

NDB or GPS-B

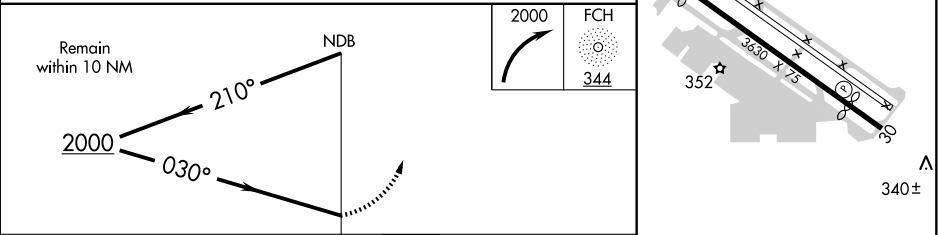
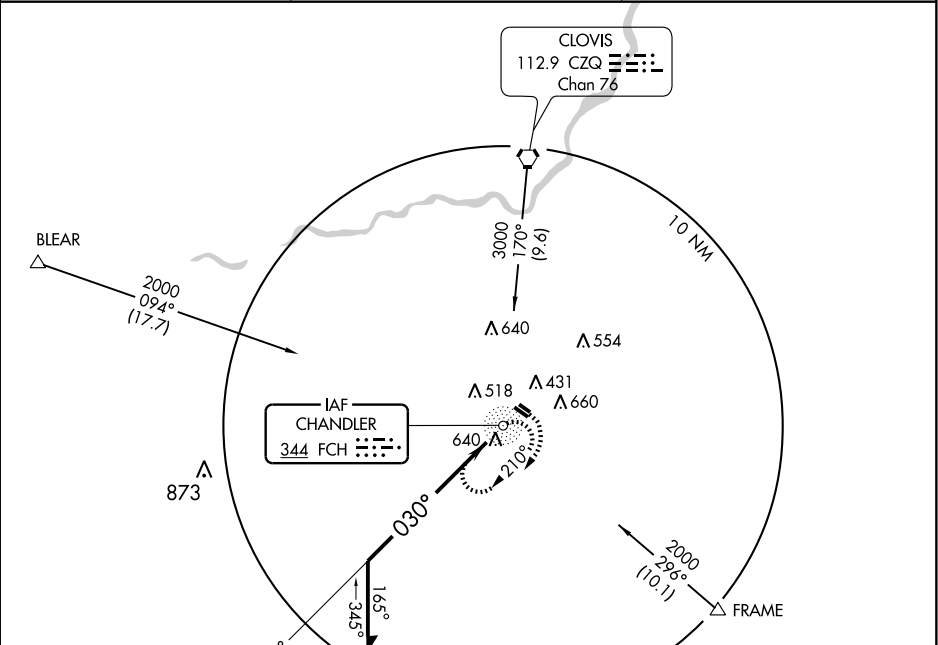
FRESNO CHANDLER EXECUTIVE (FCH)

NDB FCH 344	APP CRS 030°	Rwy Idg TDZE Apt Elev	N/A N/A 280
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▼ If local altimeter setting not received, use Fresno
▲ NA Yosemite Intl altimeter setting and increase MDA 20 feet.

MISSED APPROACH: Climbing right turn to 2000 in FCH NDB holding pattern.

AWOS-3 135.225	FRESNO APP CON 119.0 323.25	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	1020-1	740 (800-1)	1020-2 740 (800-2)	NA

REIL Rwy 12 and 30 0
MIRL Rwy 12-30 0

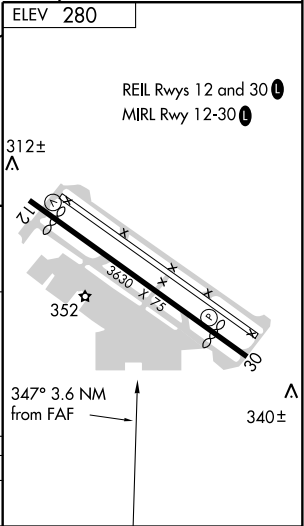
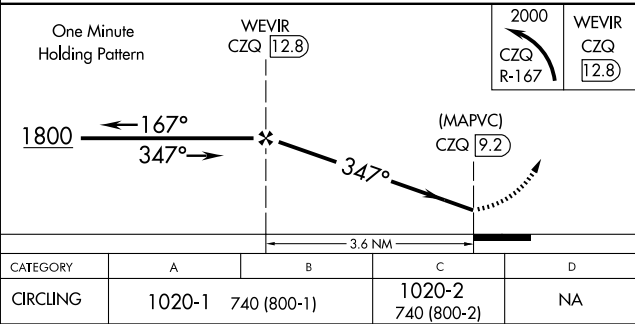
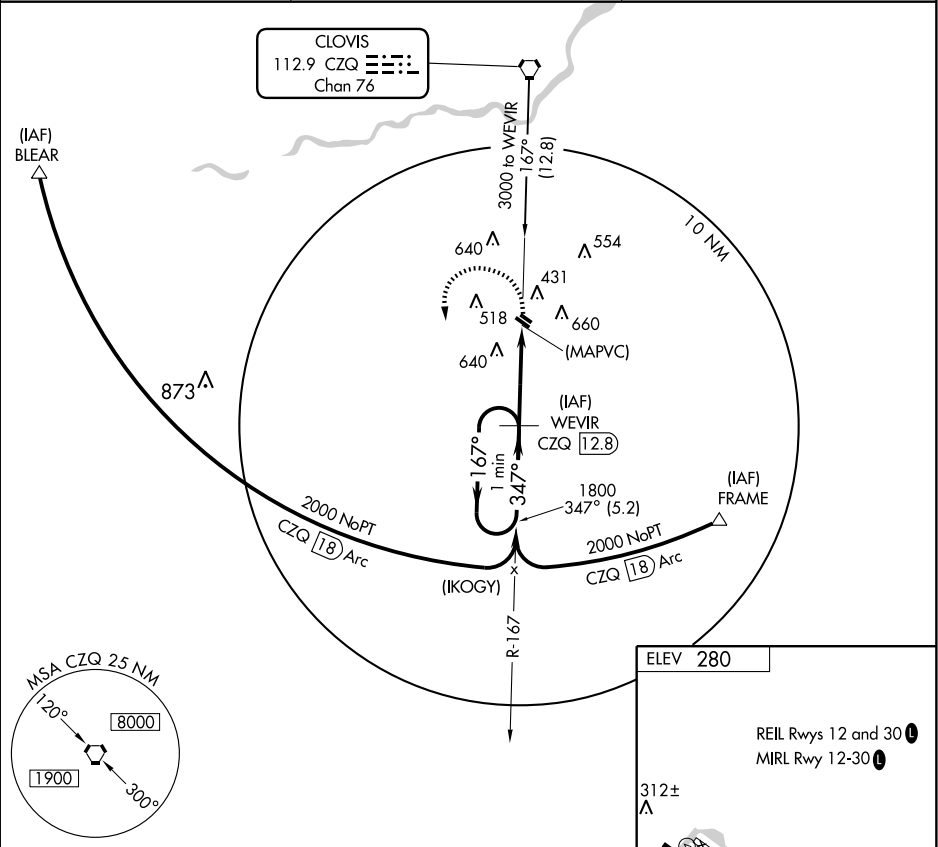
VORTAC CZQ 112.9 Chan 76	APP CRS 347°	Rwy Idg TDZE Apt Elev	N/A N/A 280
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VOR/DME or GPS-C
FRESNO CHANDLER EXECUTIVE (FCH)

If local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase MDA 20 feet.

MISSED APPROACH: Climbing left turn to 2000 via R-167 to WEVIR 12.8 DME and hold.

AWOS-3 135.225	FRESNO APP CON 119.0 323.25	UNICOM 123.0 (CTAF)
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AIRPORT DIAGRAM

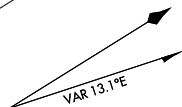
AL-5136 (FAA)

FULLERTON MUNI (FUL)
FULLERTON, CALIFORNIA

ATIS
125.05
FULLERTON TOWER★
119.1
GND CON
121.8

33°52.5'N

117°59.0'W



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

ELEV
85

064.0°

HANGARS

3121 X 75
0.3% UPTRANSIENT
PARKINGTWR/TERMINAL
158INTERSECTION
DEPARTURES
NOT AUTHORIZEDFIELD
ELEV
96RWY 6-24
512.5

33°52.0'N

117°58.5'W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Turn right heading 120° for radar vectors to SLI VORTAC.
Thence. . .

TAKE-OFF RUNWAY 24: Turn left heading 120° for radar vectors to SLI VORTAC.
Thence. . .

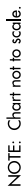
. . . via (transition) or (assigned route). Maintain 2000 feet. Expect clearance to
filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM3.HEC): From over SLI VORTAC via SLI R-058 and
PDZ R-238 to PDZ VORTAC, then via PDZ R-012 and HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM3.LHS): From over SLI VORTAC via SLI R-058
and PDZ R-238 to POXKU INT, then via POM R-164 to BAYJY INT, then via VNY R-095
to DARTS INT. Thence via SLI R-319 and LHS R-139 to LHS VORTAC.

VENTURA TRANSITION (ANAHM3.VTU): From over SLI VORTAC via SLI R-251 to
WILMA INT, then via LAX R-123 to LAX VORTAC, then via LAX R-276 and VTU R-093
to VTU VOR/DME.

LONG BEACH, CALIFORNIA



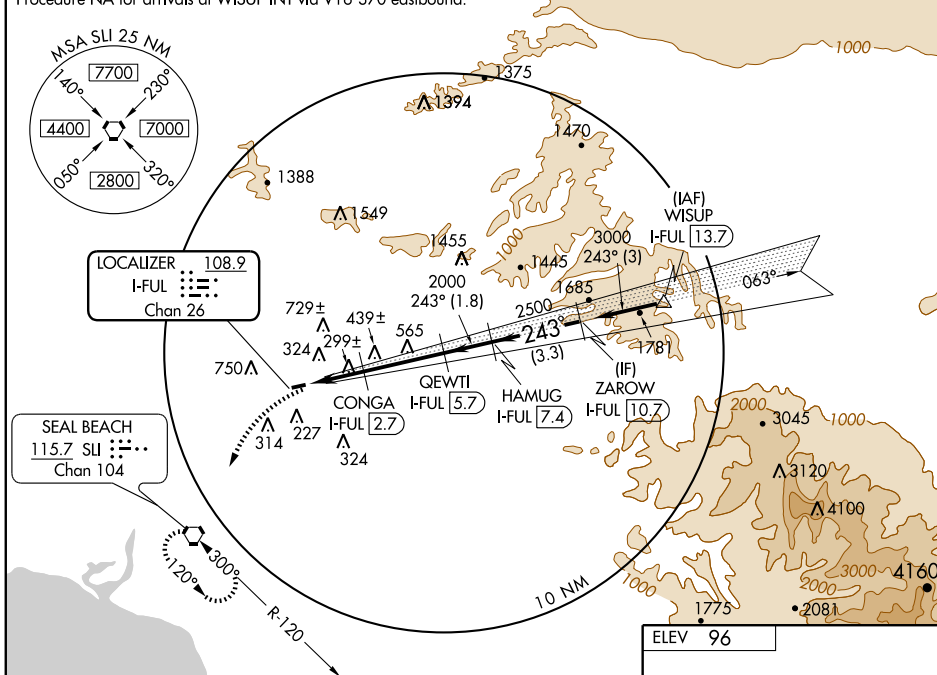
LOC/DME I-FUL	APP CRS	Rwy Idg	2868
108.9	243°	TDZE	95
Chan 26		Apt Elev	96

LOC/DME RWY 24

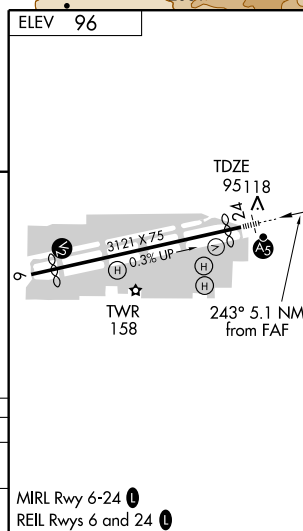
FULLERTON MUNI (FUL)

Inoperative table does not apply.		MALSR	MISSED APPROACH: Climbing left turn to 2600 direct SLI VORTAC and hold.	
ATIS 125.05	SOCAL APP CON 124.65 316.125	FULLERTON TOWER ★ 119.1 (CTAF)	GND CON 121.8	UNICOM 122.95

Procedure NA for arrivals at WISUP INT via V16-370 eastbound.



2600	SLI	VGSI and descent angles not coincident.	HAMUG I-FUL [7.4]	ZAROW I-FUL [10.7]
	115.7			
I-FUL [0.5]	CONGA I-FUL [2.7]	QEWTI I-FUL [5.7]	243°	3000
		≤ 3.45° TCH 33	2500	Procedure Turn NA
	2.2 NM	2.9 NM	1.8 NM	3.3 NM
CATEGORY	A	B	C	D
S-24	560-1	465 (500-1)	NA	
CIRCLING	760-1 664 (700-1)	820-1 724 (800-1)	NA	



MIRL Rwy 6-24
REIL Rws 6 and 24

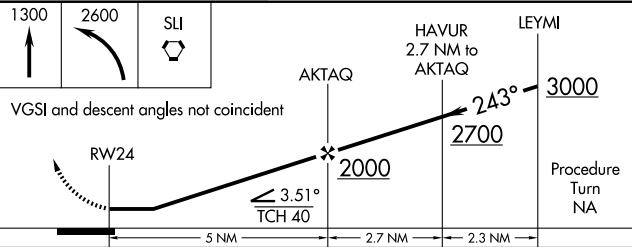
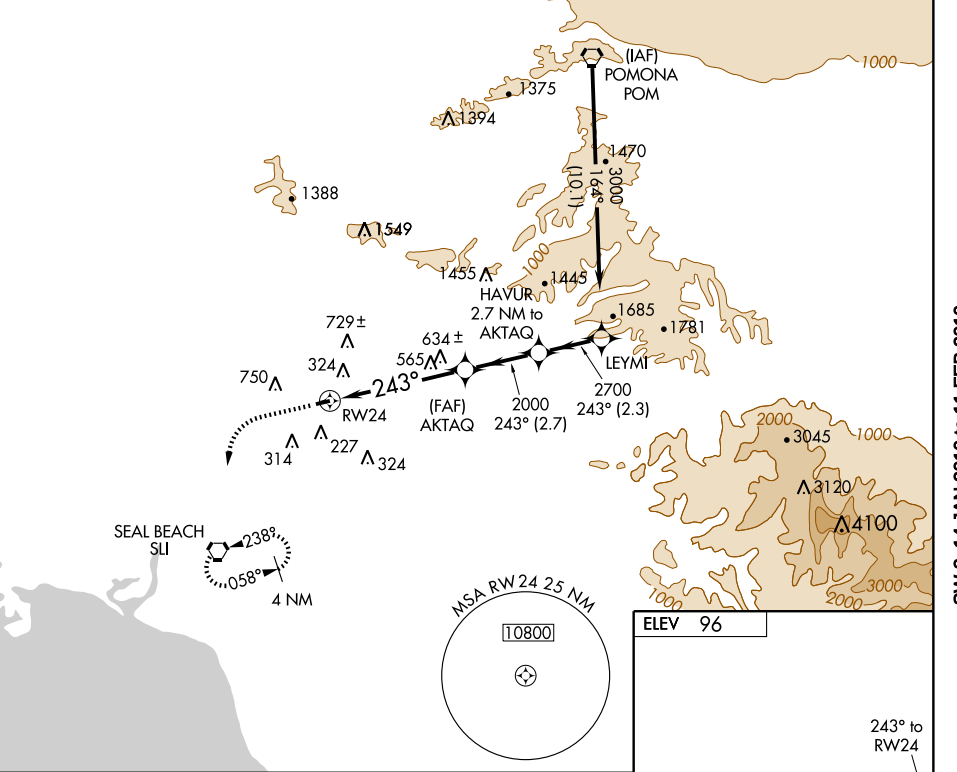
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MALSR

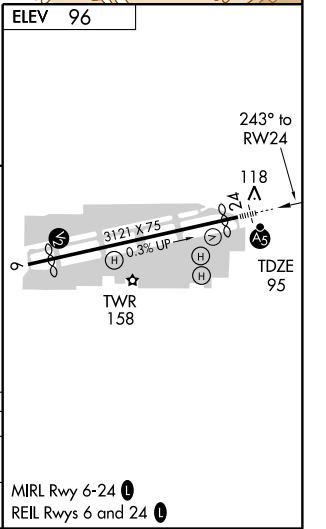
MISSED APPROACH: Climb to 1300, then climbing left turn to 2600 direct SLI VORTAC and hold.

ATIS 125.05	SOCAL APP CON 124.65 316.125	FULLERTON TOWER★ 119.1 (CTAF)	GND CON 121.8	UNICOM 122.95
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Procedure NA for arrival on POM VORTAC airway radials 104 CW 224.



CATEGORY	A	B	C	D
LNNAV MDA	900-1 805 (900-1)	900-1¼ 805 (900-1¼)	NA	NA
CIRCLING	900-1 804 (900-1)	900-1¼ 804 (900-1¼)	NA	NA



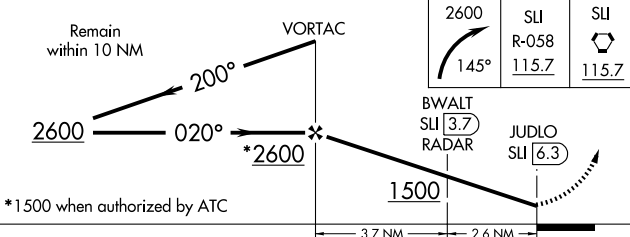
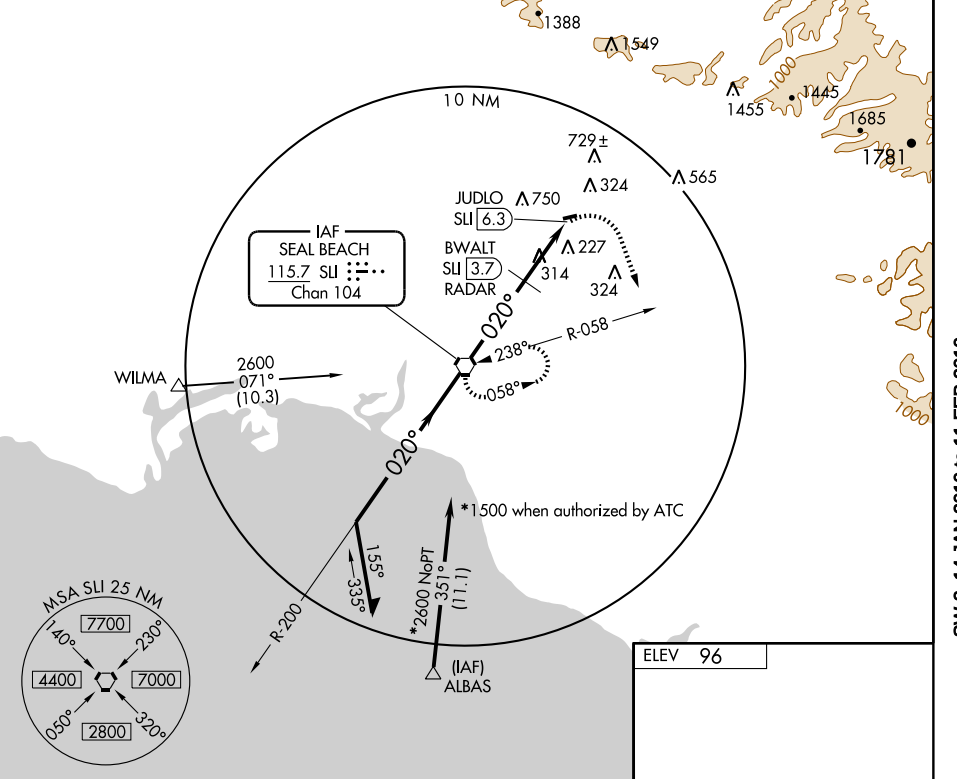
▼

▲

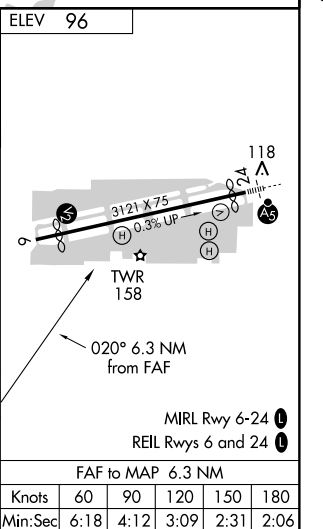
Maximum entry altitude 6000.

MISSED APPROACH: Climbing right turn to 2600 via heading 145° and SLI R-058 to SLI VORTAC and hold.

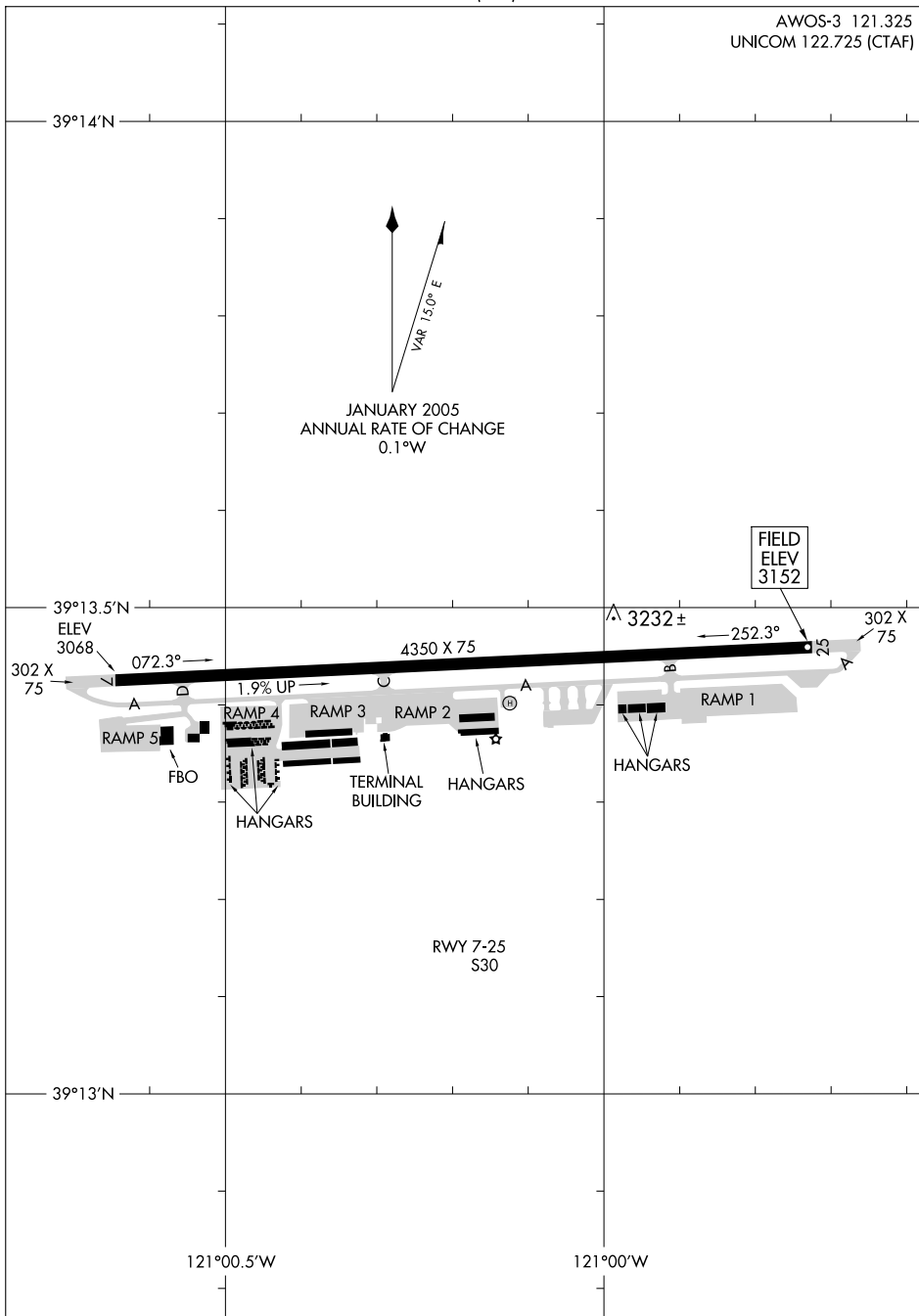
ATIS 125.05	SOCAL APP CON 124.65 316.125	FULLERTON TOWER★ 119.1 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	1500-1¼ 1404 (1500-1¼)	1500-1½ 1404 (1500-1½)	NA	
BWALT FIX MINIMUMS				
CIRCLING	740-1 644 (700-1)	760-1 664 (700-1)	NA	



AIRPORT DIAGRAM

GRASS VALLEY / NEVADA COUNTY AIRPARK (G00)
AL-6659 (FAA) GRASS VALLEY, CALIFORNIAAWOS-3 121.325
UNICOM 122.725 (CTAF)

APP CRS
071°

Rwy Idg
TDZE
Apt Elev

4350
3128
3152

GPS RWY 7

GRASS VALLEY/ NEVADA COUNTY AIR PARK(G00)

▼

▲NA

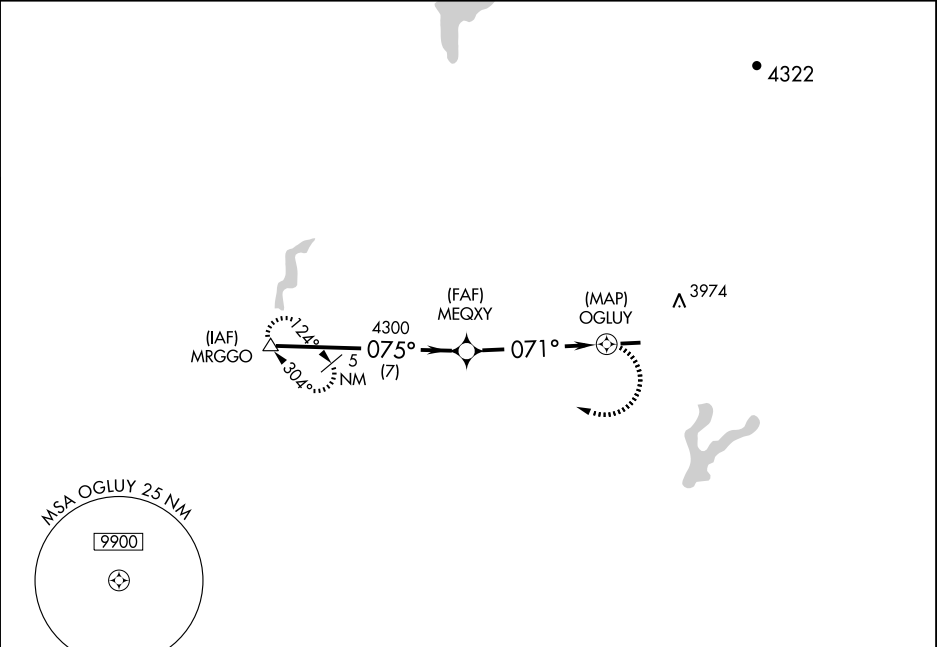
When local altimeter setting not received,
use Emigrant Gap altimeter setting.
Circling not authorized north of Rwy 7-25.

MISSED APPROACH: Climbing right turn
to 6000 direct MRGGO WP and hold.

AWOS-3
121.325

NORCAL APP CON
125.4 259.1

UNICOM
122.725 (CTAF) 0



MRGGO

5000

075°

MEQXY

4300

071°

0.9 NM to OGLUY

OGLUY

6000

MRGGO

Procedure Turn NA

7 NM

4.1 NM

0.9

0.5

CATEGORY	A	B	C	D
S-7	3540-1	412 (400-1)	3540-1¼ 412 (400-1¼)	NA
CIRCLING	3680-1	528 (600-1)	3680-1½ 528 (600-1½)	NA

EMIGRANT GAP ALTIMETER SETTING MINIMUMS

S-7	3880-1 752 (800-1)	3880-1¼ 752 (800-1¼)	3880-2¼ 752 (800-2¼)	NA
CIRCLING	4020-1 868 (900-1)	4020-1¼ 868 (900-1¼)	4020-2½ 868 (900-2½)	NA

ELEV 3152

TDZE 3128

3232±

4350 X 75

3149±

1.9% UP

25

REIL Rwy 7 and 25
MIRL Rwy 7-25 0

VOR/DME MYV 110.8 Chan 45	APP CRS 058°	Rwy Idg TDZE Apt Elev N/A N/A 3152
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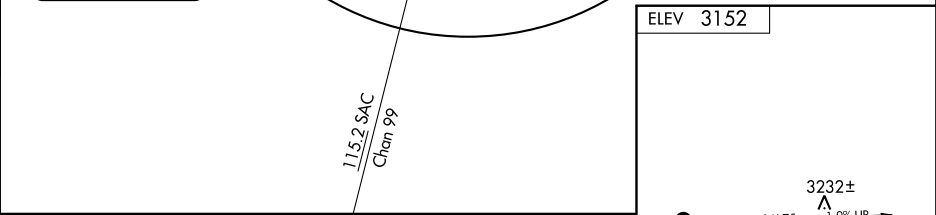
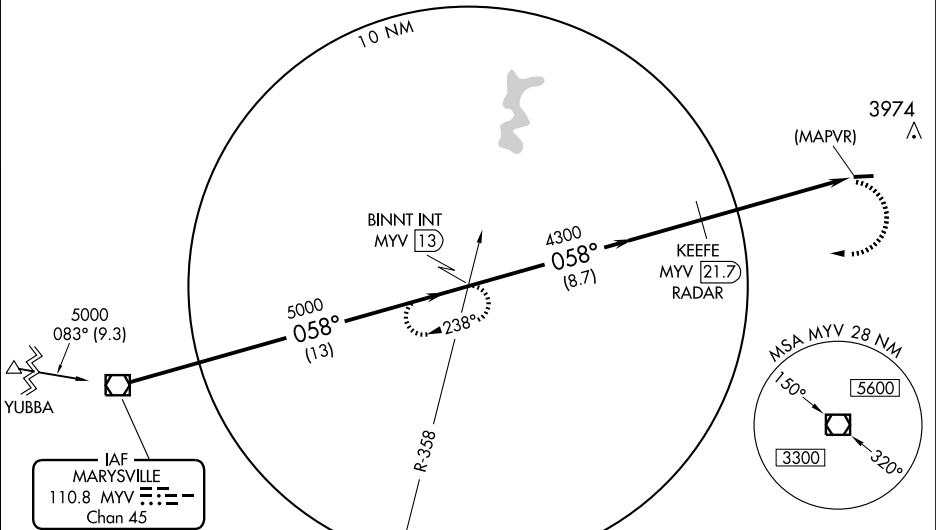
VOR or GPS-A

GRASS VALLEY/ NEVADA COUNTY AIR PARK (G00)

NA When local altimeter setting not received, use Emigrant Gap altimeter setting. Circling not authorized north of Rwy 7-25.	MISSED APPROACH: Climbing right turn to 5000 via MYV R-058 to BINNT Int/MYV 13 DME and hold.
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AWOS-3 121.325	NORCAL APP CON 125.4 259.1	UNICOM 122.725 (CTAF) 0
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DME or RADAR REQUIRED



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SW-2, 14 JAN 2010 to 11 FEB 2010

▼

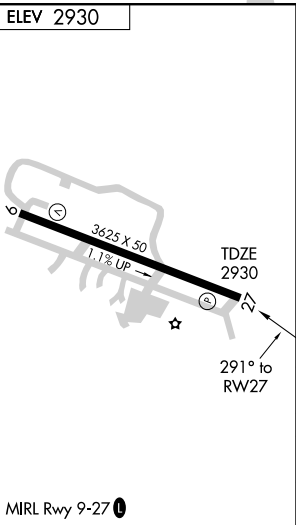
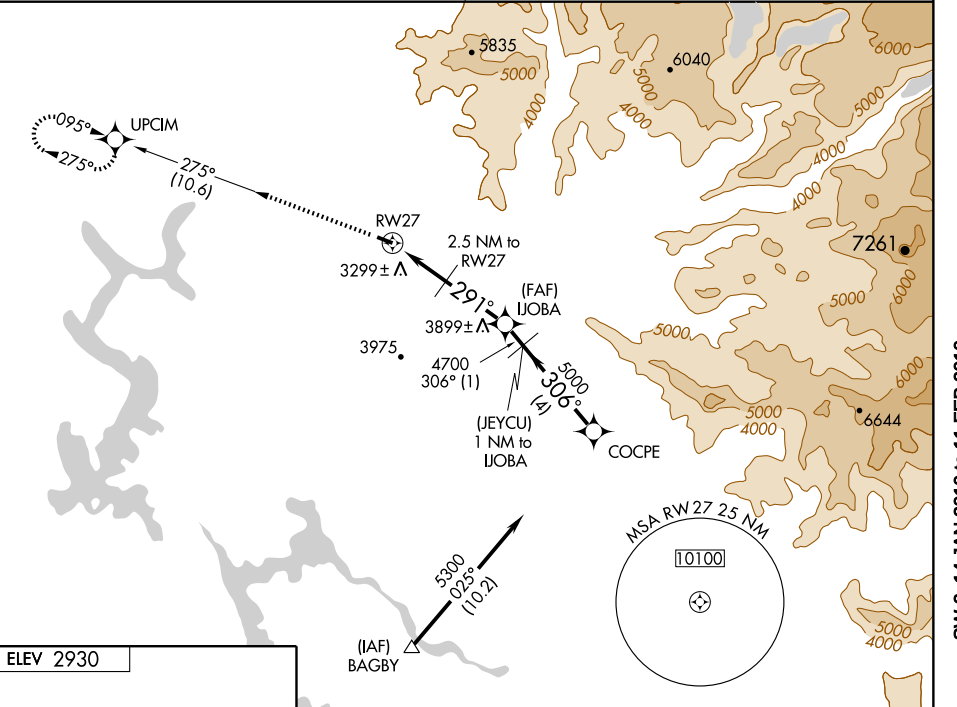
NA

Obtain local altimeter setting on CTAF; when not received, use Columbia altimeter setting.

MISSED APPROACH: Climb to 4500 via 275° course to UPCIM WP and hold.

OAKLAND CENTER
121.25 327.0

CTAF
122.90



4500	UPCIM	*3860 when using Columbia altimeter setting.	(JEYCU) 1 NM to IJOBA	COCPE
275°				
		2.5 NM to RW27	IJOBA	5300
		291°	4700	306°
		3700*	5000	Procedure Turn NA
		2.5 NM	2.5 NM	1 NM
				4 NM
CATEGORY	A	B	C	D
S-27	3560-1	630 (700-1)		NA
CIRCLING	3560-1 630 (700-1)	3700-1¼ 770 (800-1¼)		NA
COLUMBIA ALTIMETER SETTING MINIMUMS				
S-27	3700-1 770 (800-1)	3700-1¼ 770 (800-1¼)		NA
CIRCLING	3700-1 770 (800-1)	3860-1¼ 930 (1000-1¼)		NA

SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	3625
095°	TDZE	2919
	Apt Elev	2930

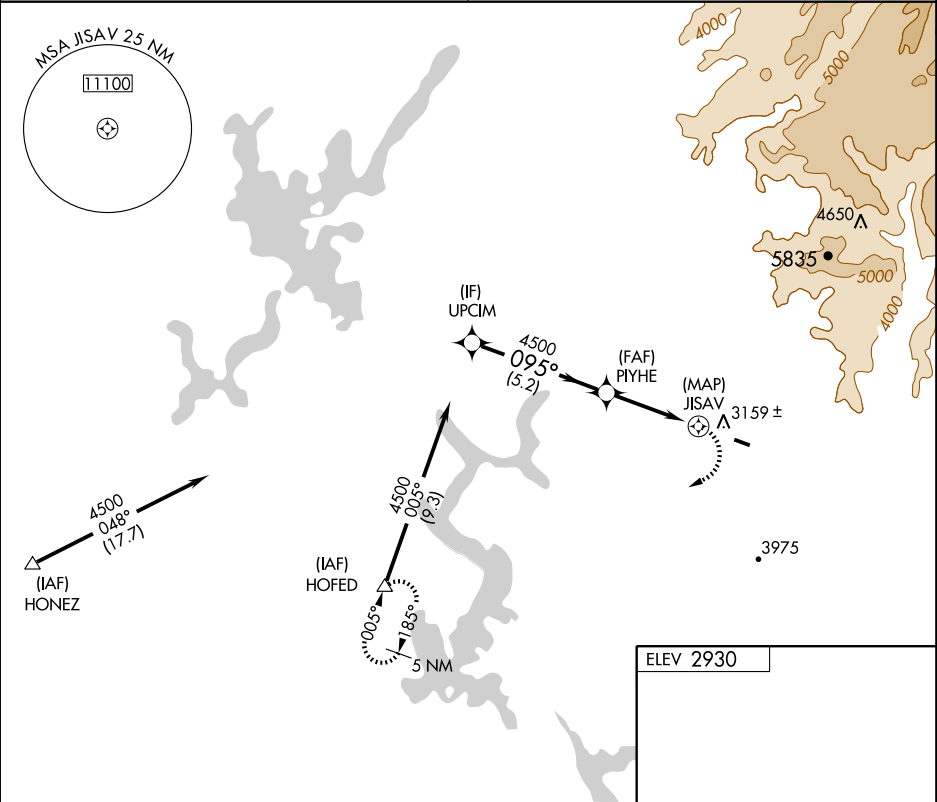
RNAV (GPS) RWY 9
GROVELAND/ PINE MOUNTAIN LAKE (E45)

▼ DME/DME RNP-0.3 NA.
▲ NA Use Columbia altimeter setting; If not received, use Castle altimeter setting and increase all MDA's 560 feet.

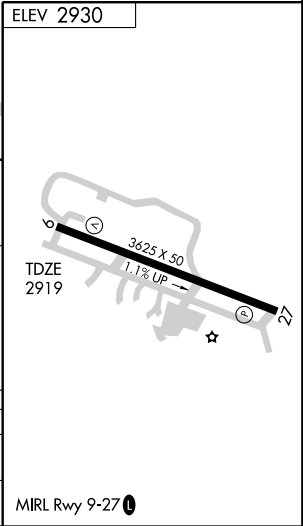
MISSED APPROACH: Climbing right turn to 7000 direct HOFED and hold, continue climb-in-hold to 7000.

OAKLAND CENTER
121.25 327.0

CTAF
122.9 0



VGSi and descent angles not coincident.				
UPCIM PIYHE 7000 HOFED 4500 4500 JISAV Procedure Turn NA 3.04° TCH 40 5.2 NM 3.5 NM 1.4 NM				
CATEGORY	A	B	C	D
LNAV MDA	4060-1¾	1141 (1200-1¾)	NA	
CIRCLING	4060-1¾	1130 (1200-1¾)	NA	

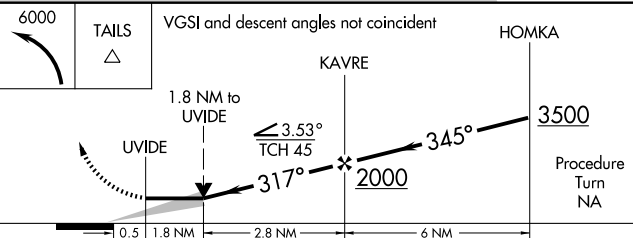
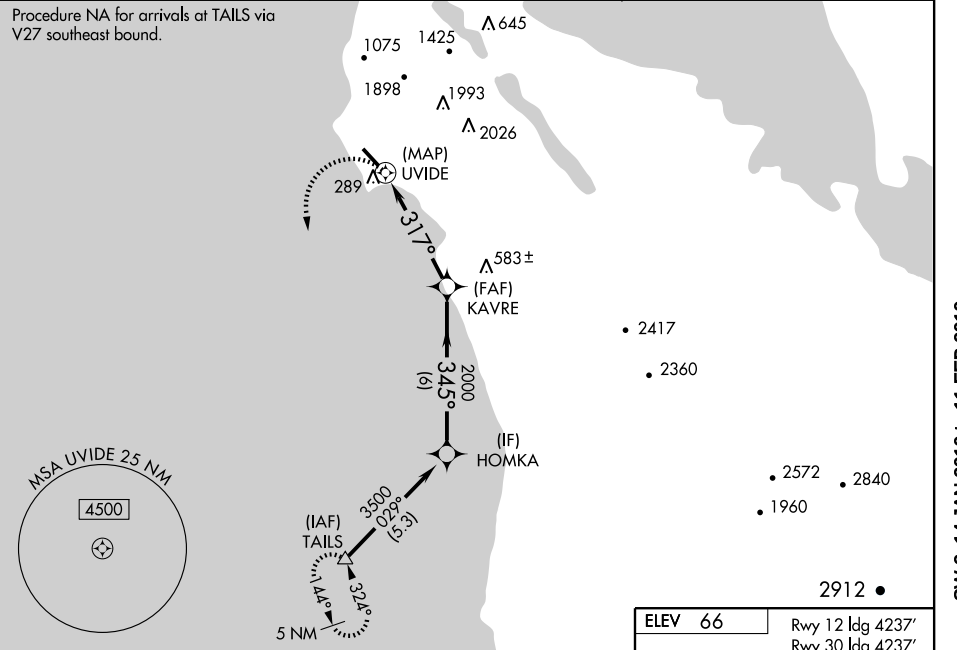


NA

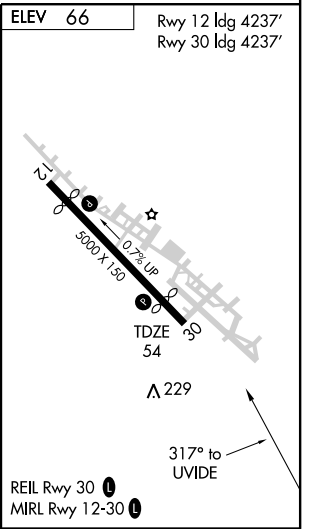
Circling NA east of Rwy 12/30.
DME/DME RNP-0.3 NA.
Obtain local altimeter setting on CTAF; when not received,
use San Francisco Intl altimeter setting.
VDP NA when using San Francisco Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 6000
direct TAILS and hold, continue climb-in-hold
to 6000.

AWOS 127.275	NORCAL APP CON 135.1 307.2	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
LNAV MDA	800-1 746 (800-1)	800-1¼ 746 (800-1¼)	NA	
CIRCLING	800-1 734 (800-1)	800-1¼ 734 (800-1¼)	NA	
SAN FRANCISCO ALTIMETER SETTING MINIMUMS				
LNAV MDA	840-1 786 (800-1)	840-1¼ 786 (800-1¼)	NA	
CIRCLING	840-1 774 (800-1)	840-1¼ 774 (800-1¼)	NA	



WAAS CH 93802 W12A	APP CRS 122°	Rwy Idg TDZE Apt Elev	4237 59 66
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RNAV (GPS) Z RWY 12

HALF MOON BAY (HAF^o)

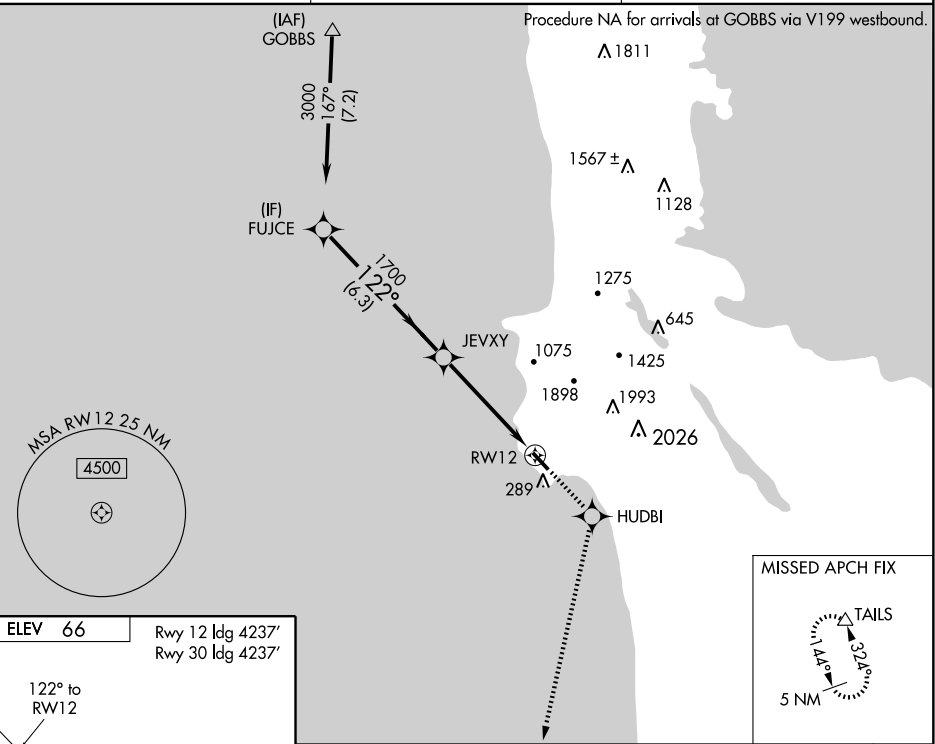
NA

W

DME/DME RNP- 0.3 NA.
Obtain local altimeter setting on CTAF; when not received,
use San Francisco Intl altimeter setting.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 direct HUDBI and
via 178° track to TAILS and hold, continue climb-in-hold
to 6000.

AWOS 127.275	NORCAL APP CON 135.1 307.2	UNICOM 122.8 (CTAF)
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REIL Rwy 30
MIRL Rwy 12-30

FUJCE				6000 ↑	HUDBI ✦	178° track	TAILS △
3000				VGSi and RNAV glidepath not coincident			
Procedure Turn NA							
GS 3.10° TCH 40							

▼

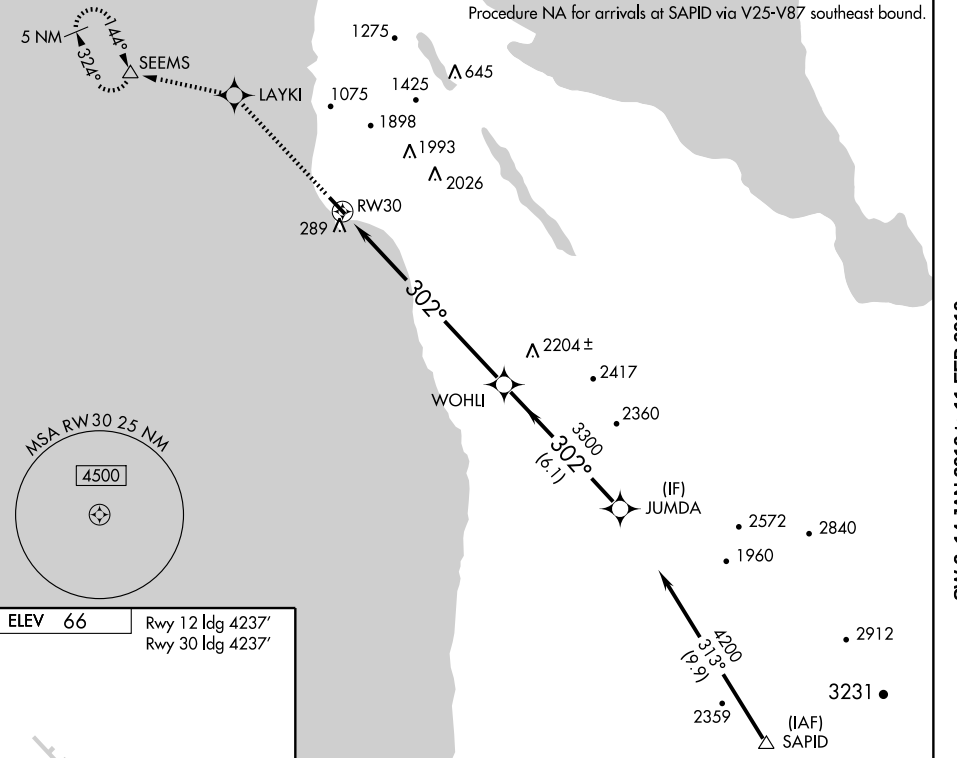
△ NA

W

DME/DME RNP- 0.3 NA.
Obtain local altimeter setting on CTAF; when not received,
use San Francisco Intl altimeter setting.

MISSED APPROACH: Climb to 6000 direct LAYKI
and via 267° track to SEEMS and hold, continue
climb-in-hold to 6000.

AWOS 127.275	NORCAL APP CON 135.1 307.2	UNICOM 122.8 (CTAF) 0
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6000	LAYKI	267° track	SEEMS	Procedure Turn NA	JUMDA
VGSI and RNAV glidepath not coincident	WOHLI	3300	302°	4200	GS 3.50° TCH 40
RW30	8.5 NM	6.1 NM			
TDZE 54					
Λ 229					
302° to RW30					
REIL Rwy 30					
MIRL Rwy 12-30					
CATEGORY	A	B	C	D	
LPV DA	363-1	309 (300-1)		NA	
SAN FRANCISCO ALTIMETER SETTING MINIMUMS					
LPV DA	391-1	337 (400-1)		NA	

SW-2, 14 JAN 2010 to 11 FEB 2010

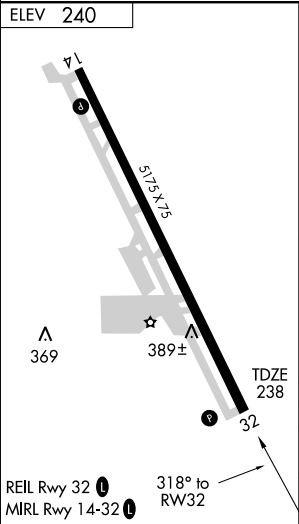
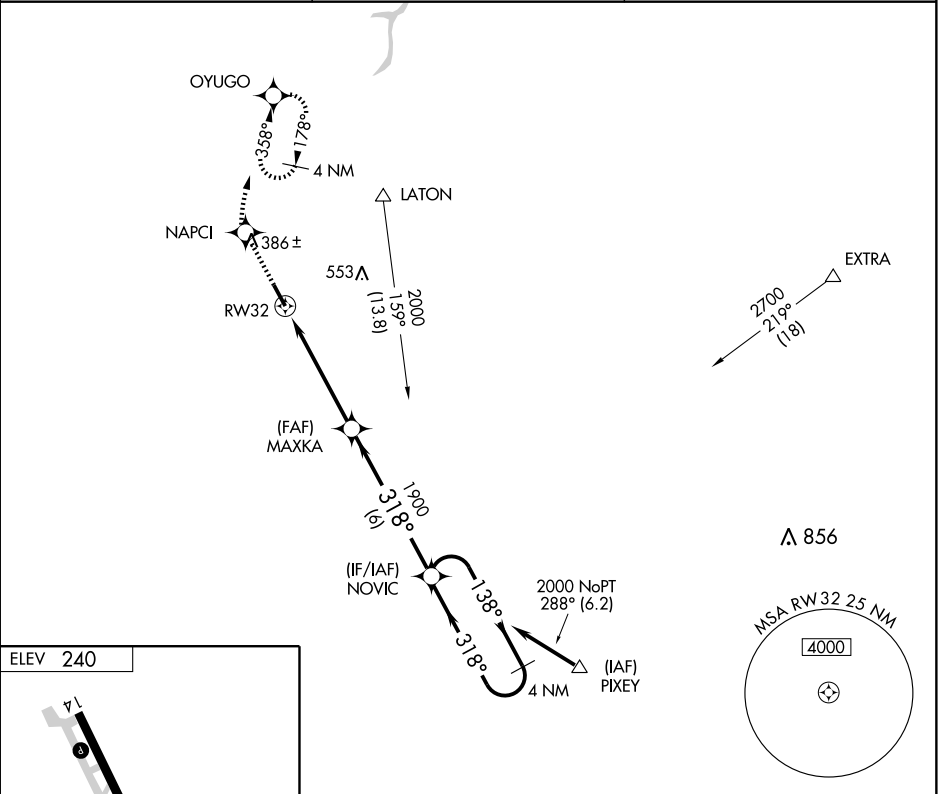
APP CRS	Rwy Idg	5175
318°	TDZE	238
	Apt Elev	240

RNAV (GPS) RWY 32

HANFORD MUNI (HJO)

	DME/DME RNP -0.3 NA. When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all MDAs 80 feet.	MISSED APPROACH: Climb to 2000 direct NAPCI and via 358° track to OYUGO and hold.
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ASOS 134.75	FRESNO APP CON 123.9	UNICOM 122.8 (CTAF)
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	2000	NAPCI	358°	OYUGO	VGSI and descent angles not coincident.
					4 NM Holding Pattern
				MAXKA	
				1.2 NM to RWY 32	
				RWY 32	
				3.04° TCH 40	
				1900	
				318°	
				138°	
				2000	
				6 NM	
CATEGORY	A	B	C	D	
LNAV MDA	640-1	402 (400-1)	NA	NA	
CIRCLING	720-1	480 (500-1)	NA	NA	

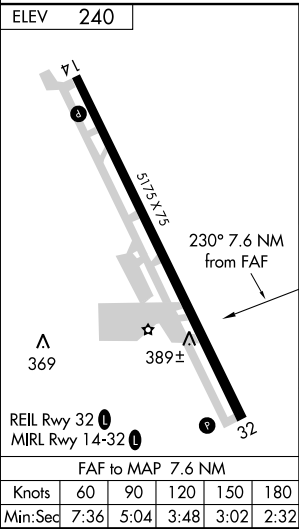
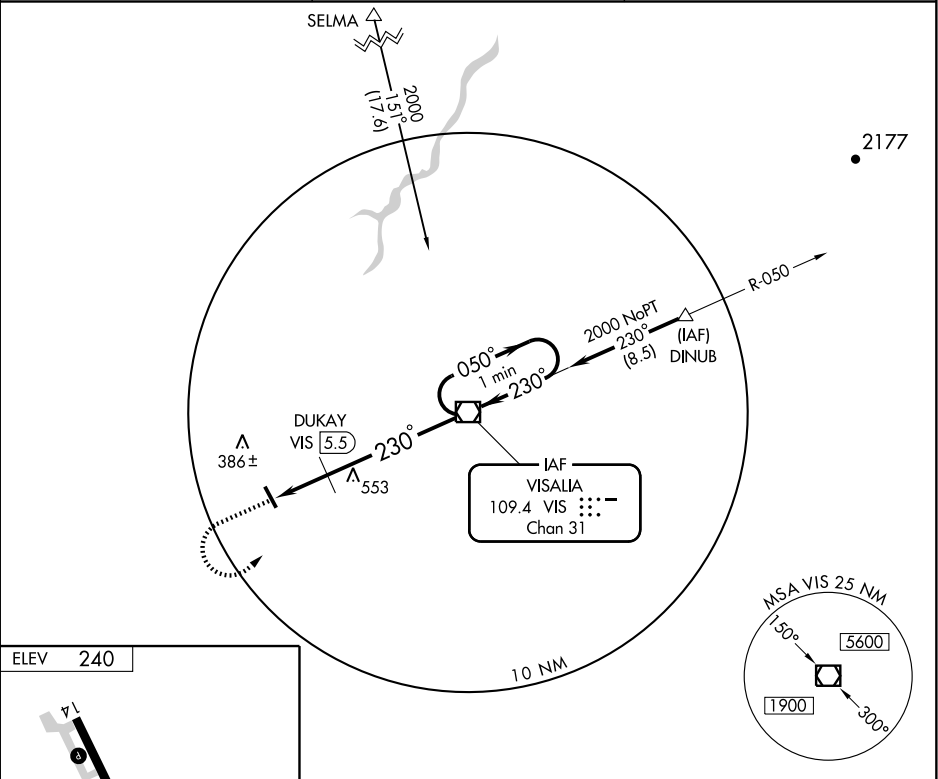
VOR/DME VIS 109.4 Chan 31	APP CRS 230°	Rwy Idg TDZE Apt Elev	N/A N/A 240
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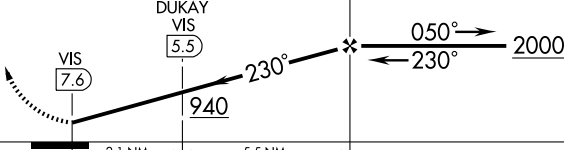
VOR-A

HANFORD MUNI (HJO)

▼ ▲ When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all MDAs 80 feet.	MISSED APPROACH: Climb to 1300 then climbing left turn to 2000 direct VIS VOR/DME and hold.
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ASOS 134.75	FRESNO APP CON 123.9	UNICOM 122.8 (CTAF) 0
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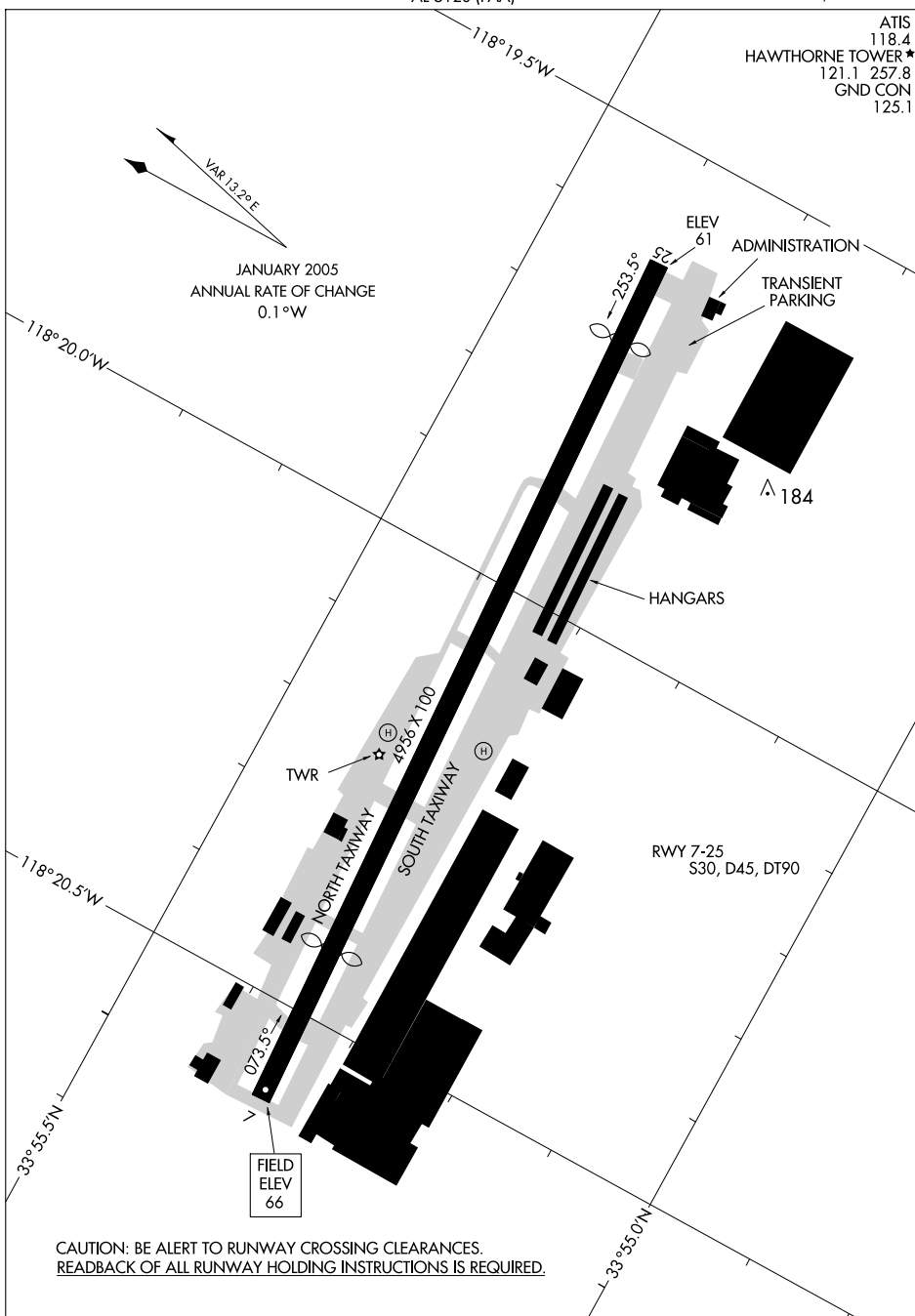


1300 ↑		2000 	VIS  109.4	One Minute Holding Pattern		
						
CATEGORY	A	B	C	D		
CIRCLING	940-1	700 (700-1)	NA			
DUKAY FIX MINIMUMS						
CIRCLING	720-1	480 (500-1)	NA			

AIRPORT DIAGRAM

HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)
AL-5120 (FAA)
HAWTHORNE, CALIFORNIA

ATIS
118.4
HAWTHORNE TOWER ★
121.1 257.8
GND CON
125.1



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBCK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

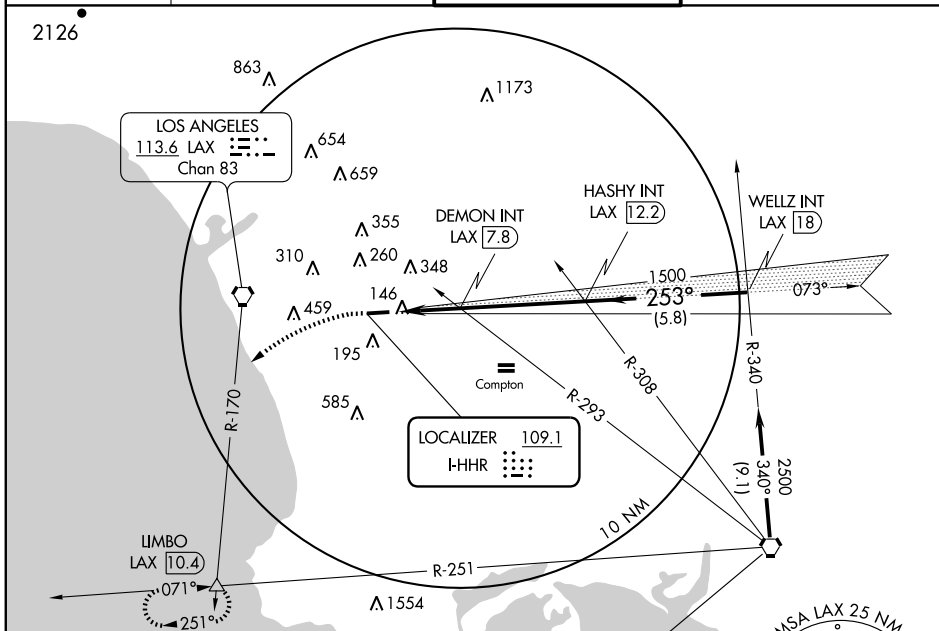
LOC I-HHR 109.1	APP CRS 253°	Rwy Idg TDZE Apt Elev	4493 63 66
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LOC RWY 25

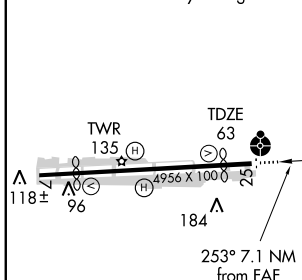
HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

⚠ DME from LAX VORTAC. Inoperative table does not apply. ⚠ Visibility reduction by helicopters NA. Circling not authorized north of Rwy 7-25. Circling not authorized when control tower closed.	ODALS ⬇	MISSED APPROACH: Climb to 700 then climbing left turn to 3000 via heading 210° and LAX R-170 to LIMBO Int and hold.
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ATIS 118.4	SOCAL APP CON 124.9 269.0	HAWTHORNE TOWER ★ 121.1 (CTAF) 257.8	GND CON 125.1
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ELEV 66	Rwy 7 Idg 3985'
	Rwy 25 Idg 4493'



REIL Rwy 25	Min:Sec	60	90	120	150	180
MIRL Rwy 7-25	6:12	4:08	3:06	2:29	2:04	
FAF to MAP 6.2 NM						

	700	3000	LAX R-170 113.6	LIMBO	HASHY INT LAX 12.2	WELZ INT LAX 18
	210°					
			DEMON INT LAX 7.8			
			LAX 6		1500	2500
			660		LOC unusable from MAP inbound.	Procedure Turn NA
	0.9	1.8	4.4 NM	5.8 NM		
CATEGORY	A	B	C	D		
S-LOC 25	600-1¼	537 (600-1¼)	600-1½	600-1¾		
			537 (600-1½)	537 (600-1¾)		
CIRCLING	600-1¼	534 (600-1¼)	600-1½	620-2		
			534 (600-1½)	554 (600-2)		

VORTAC LAX <u>113.6</u> Chan 83	APP CRS 261°	Rwy Idg 4493 TDZE 63 Apt Elev 66
---	------------------------	---

VOR or GPS RWY 25
HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

▼ Visibility reduction by helicopters NA. Inoperative table does not apply.
Circling not authorized north of Rwy 7-25.
Circling not authorized when control tower closed.

ODALS

MISSED APPROACH: Climbing left turn to 3000 via heading 210° and LAX R-170 to LIMBO Int and hold.

ATIS
118.4

SOCAL APP CON
124.9 269.0

HAWTHORNE TOWER★
121.1 (CTAF) 257.8

GND CON
125.1

2126

LOS ANGELES
113.6 LAX 
Chan 83

LIMBO
LAX 10.

ELEV 66

Rwy 7 ldg 3985'
Rwy 25 ldg 4493'

REIL Rwy 25
MIRL Rwy 7-25 **L**

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

3000

LAX

LIME

BELL INT

NORWA INT

Procedure
Turn
NA

CATEGORY

A	B
---	---

CIRCLING

680-1 614 (700-1)

C	D
680-1 ³ / ₄ 617 (700-1 ³ / ₄)	680-2 617 (700-2)

680-1 $\frac{3}{4}$	680-2
614 (700-1 $\frac{3}{4}$)	614 (700-2)



LOC/DME I-HWD <u>111.5</u> Chan 52	APP CRS 287°	Rwy Idg 5018 TDZE 47 Apt Elev 47
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LOC/DME RWY 28L
HAYWARD EXECUTIVE (HWD)

T
A Circling not authorized north of Rwy 10L-28R.

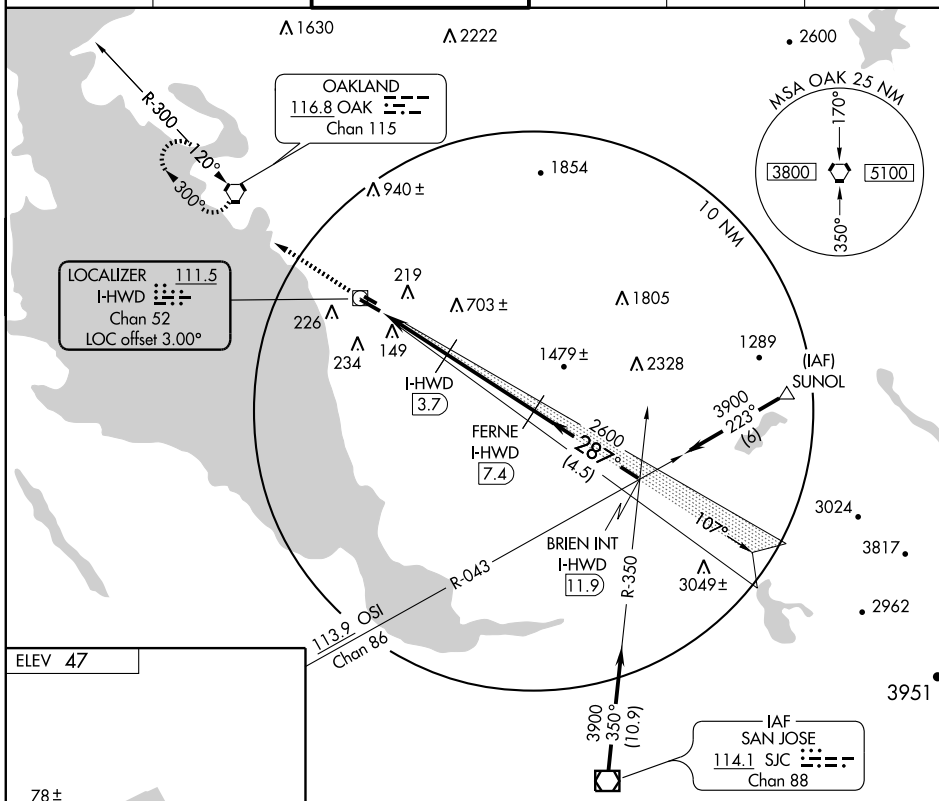
MISSED APPROACH: Climb to 2000 direct OAK VORTAC and hold.

ATIS
126.7

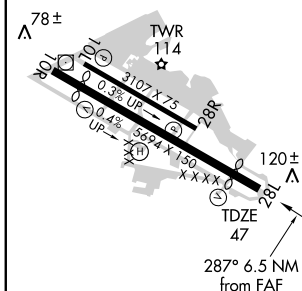
NORCAL APP CON
124.4 351.8

HAYWARD TOWER ★
120.2 (CTAF) **L** 257.8

GND CON
121.4

CLNC DEL
128.05UNICOM
122.95

ELEV 47

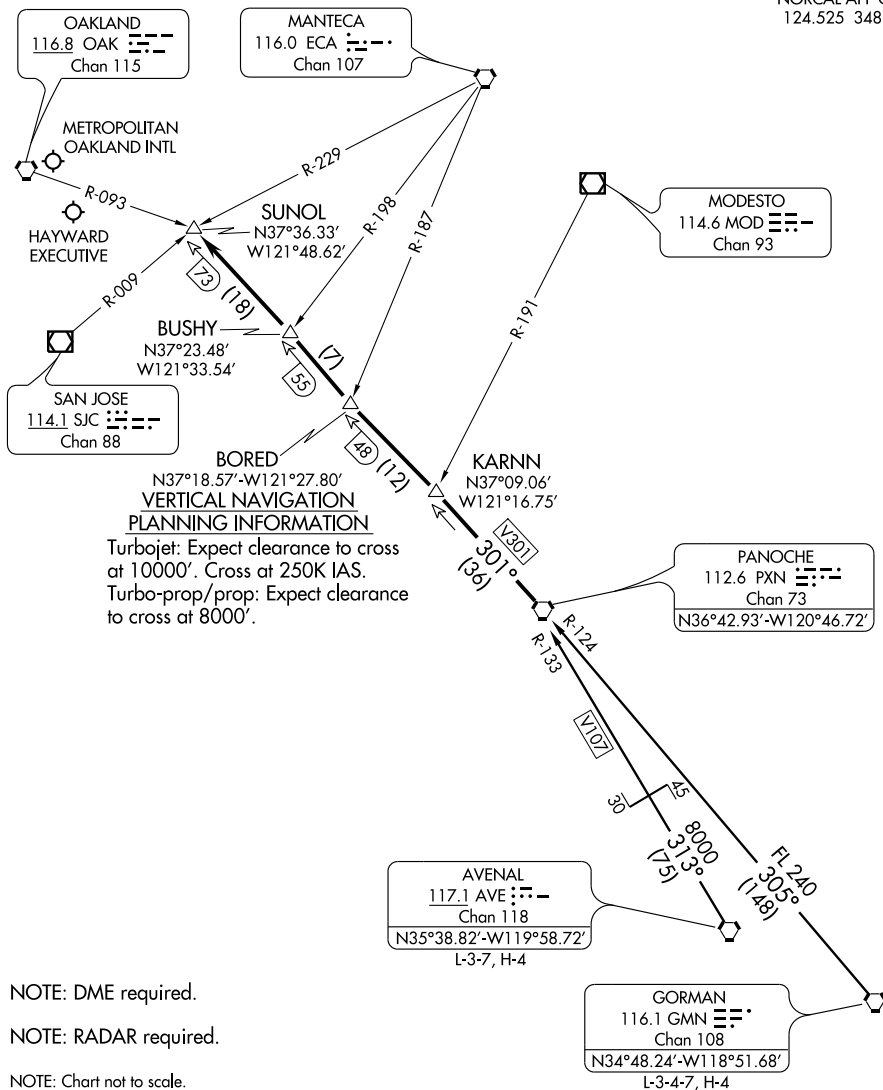


MIRL Rwy 10R-28L **L**
MIRL Rwy 10L-28R
REIL Rwy 10R and 28L

2000 ↑	OAK 116.8			
CATEGORY	A	B	C	D
S-28L	400-1	353 (400-1)		400-1¼ 353 (400-1¼)
CIRCLING	540-1	493 (500-1)	540-1½ 493 (500-1½)	600-2 553 (600-2)



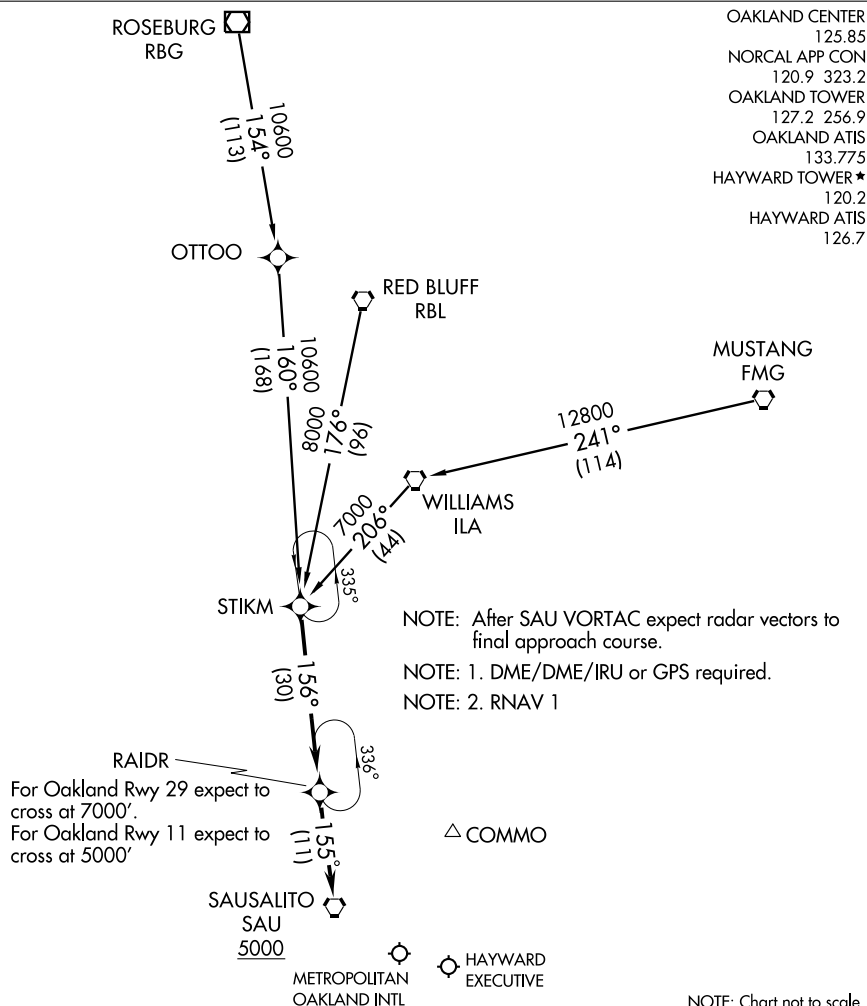


NORCAL APP CON
124.525 348.675

AVENAL TRANSITION (AVE.PXN2): From over AVE VORTAC via AVE R-313 and PXN R-133 to PXN VORTAC. Thence....

GORMAN TRANSITION (GMN. PXN2): From over GMN VORTAC via GMN R-305 and PXN R-124 to PXN VORTAC. Thence....

....From over PXN VORTAC via PXN R-301 to SUNOL INT. Expect radar vectors to the final approach course.



MUSTANG TRANSITION (FMG.RAIDR2)

RED BLUFF TRANSITION (RBL.RAIDR2)

ROSEBURG TRANSITION (RBG.RAIDR2)

From over STIKM WP via 156° track to RAIDR WP, thence as depicted to cross SAU VORTAC at or above 5000. Expect radar vectors to final approach course.

LOST COMMUNICATIONS:

Depart SAU VORTAC and proceed direct to COMMO INT.

RNAV (GPS) Y RWY 28L
HAYWARD EXECUTIVE(HWD)

- T** Circling NA north of Rwy 10L-28R. DME/DME RNP-0.3 NA.
A If local altimeter setting not received, use Oakland altimeter setting and increase all MDAs 20 feet. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2000 direct EROTE and via 292° track to OAK VORTAC and hold.

ATIS
126.7

NORCAL APP CON
124.4 351.8

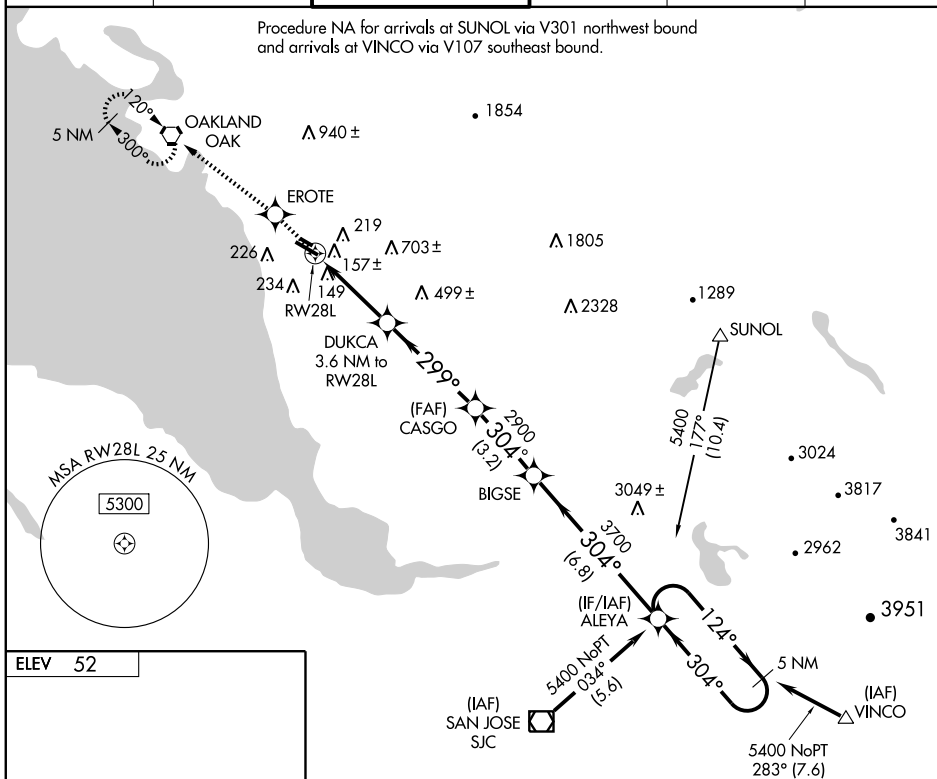
HAYWARD TOWER ★
120.2 (CTAF) **L** 257.8

GND CON
121.4

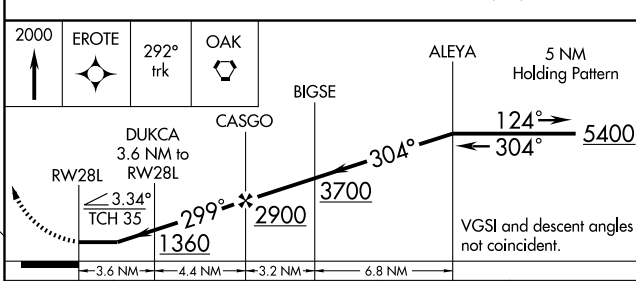
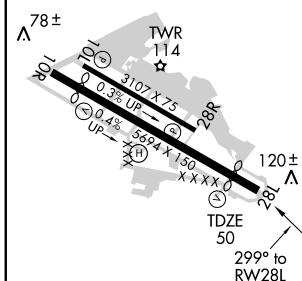
CLNC DEL
128.05

UNICOM
122.95

Procedure NA for arrivals at SUNOL via V301 northwest bound and arrivals at VINCO via V107 southeast bound.



ELEV	52
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CATEGORY	A	B	C	D
LNAV MDA	460-1	410 (500-1)	460-1½	410 (500-1½)
CIRCLING	540-1	488 (500-1)	540-1½ 488 (500-1½)	620-2 568 (600-2)

MIRL Rwy 10R-28L **L**
MIRL Rwy 10L-28R
REIL Rwy 10R and 28L

⚠

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

⚠

If local altimeter setting not received, use Oakland altimeter setting and increase DA 20 feet.

MISSED APPROACH: Climb to 2000 direct ENEME and via 298° track to OAK VORTAC and hold.

ATIS 126.7	NORCAL APP CON 124.4 351.8	HAYWARD TOWER ★ 120.2 (CTAF) 257.8	GND CON 121.4	CLNC DEL 128.05	UNICOM 122.95
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Procedure NA for arrivals at SUNOL via V301 northwest bound and arrivals at VINCO via V107 southeast bound.

MIRL Rwy 10R-28L
MIRL Rwy 10L-28R
REIL Rws 10R and 28L

2000	ENEME	298° trk	OAK	JOCPI	JOBUS	5 NM Holding Pattern
VGSI and RNAV glidepath not coincident.						
CATEGORY	A	B	C	D		
LPV DA	348-1 298 (300-1)					

SW-2, 14 JAN 2010 to 11 FEB 2010

VORTAC OAK <u>116.8</u> Chan 115	APP CRS 294°	Rwy Idg TDZE Apt Elev	N/A N/A 47
--	------------------------	-----------------------------	---------------------------------------

VOR/DME or GPS-B
HAYWARD EXECUTIVE (HWD)

Circling not authorized north of Rwy 10L-28R.

MISSED APPROACH: Climb to 2000 direct to OAK VORTA and hold.

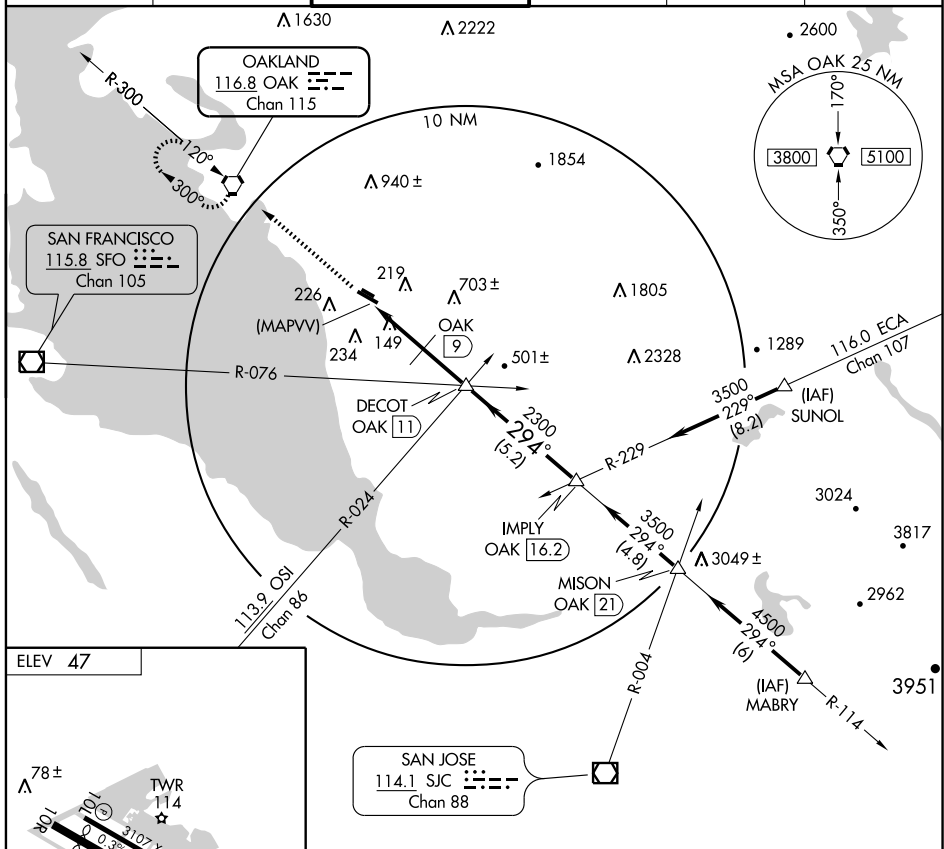
ATIS
126.7

NORCAL APP CON
124.4 351.8

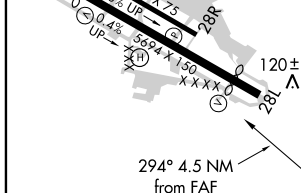
HAYWARD TOWER ★
120.2 (CTAF) **L** 257.8

GND CON
121.4

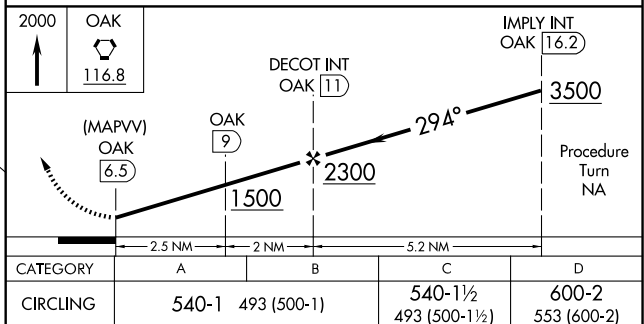
CLNC DEL
128.05

UNICOM
122.95

SW-2. 14 JAN 2010 to 11 FEB 2010



MIRL Rwy 10R-28L **L**
MIRL Rwy 10L-28R
REIL Rwy 10R and 28L



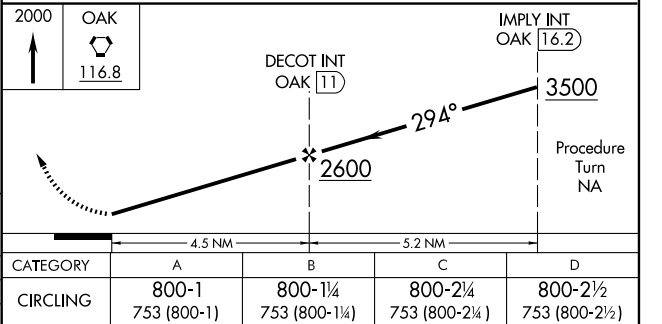
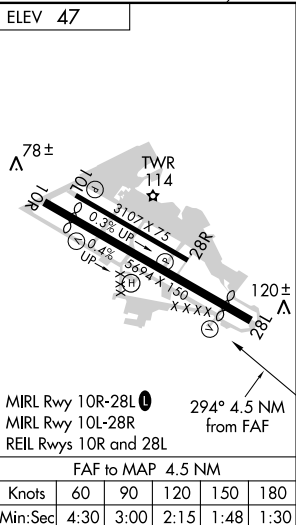
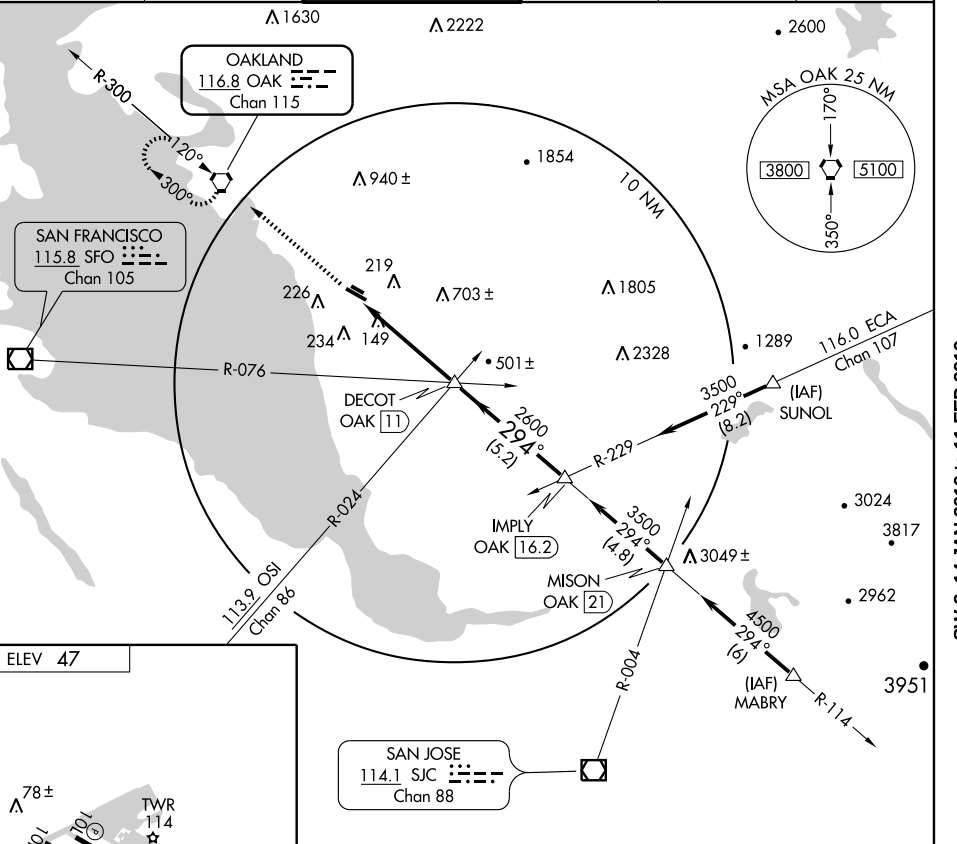
▼

▲

Circling not authorized north of Rwy 10L-28R.

MISSED APPROACH: Climb to 2000 direct to OAK VORTAC and hold.

ATIS 126.7	NORCAL APP CON 124.4 351.8	HAYWARD TOWER ★ 120.2 (CTAF) 0 257.8	GND CON 121.4	CLNC DEL 128.05	UNICOM 122.95
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SW-2, 14 JAN 2010 to 11 FEB 2010

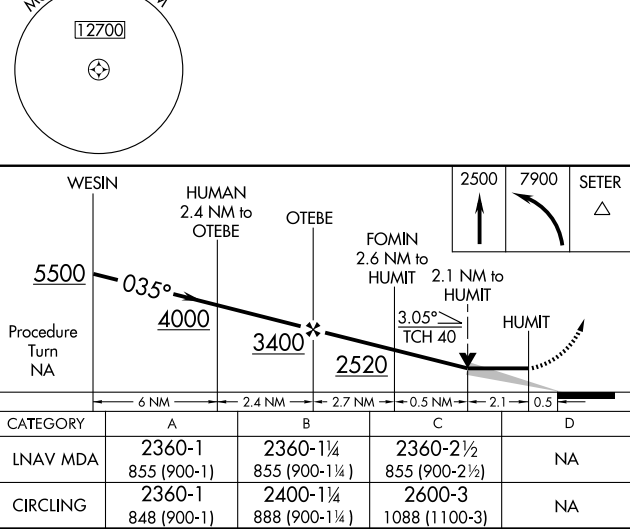
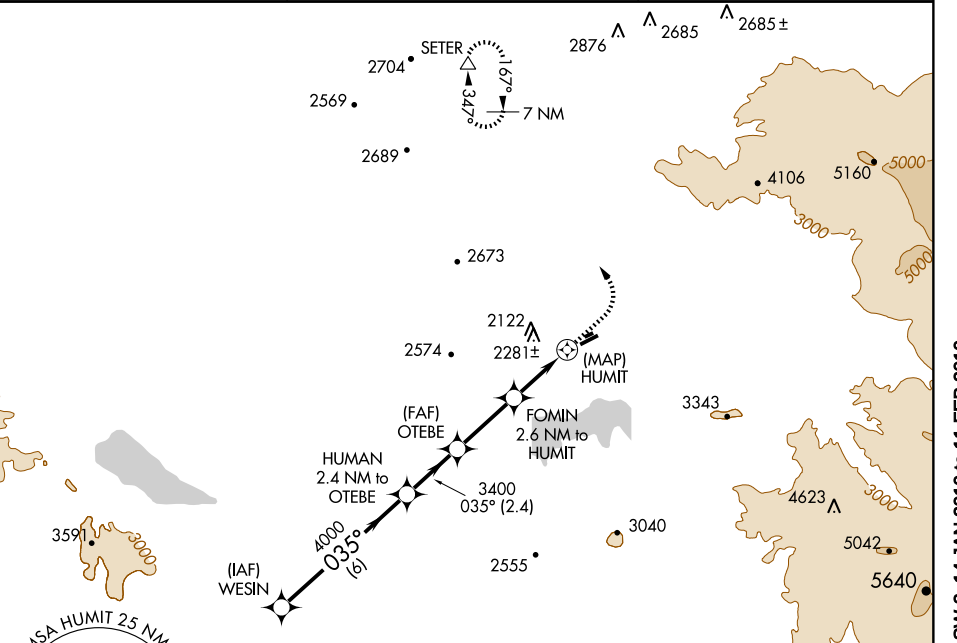
APP CRS	Rwy Idg	4314
035°	TDZE	1505
	Apt Elev	1512

RNAV (GPS) RWY 5

HEMET-RYAN (HMT)

NA	DME/DME RNP- 0.3 NA. Circling NA at night.	MISSED APPROACH: Climb to 2500, then climbing left turn to 7900 direct SETER and hold, continue climb-in-hold to 7900.
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AWOS-3 118.375	MARCH APP CON ★ 133.5 324.1	UNICOM 123.0 (CTAF)
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ELEV 1512

TDZE 1505

Rwy 4-22 restricted for glider operations.

MRL Rwy 5-23

AMEDEE AAF (KAHC)

MISSED APPROACH: Climbing left turn to 12,000 direct JEBED and hold, continue climb-in-hold to 12,000. When authorized by ATC, climb in hold to 14,000.

126.1 241.9 0 *



CATEGORY	A	B	C	D	E
LNAV MDA	4600-1 588 (600-1)		4600-1½ 588 (600-1½)	4600-1¾ 588 (600-1¾)	4600-2 588 (600-2)
CIRCLING **	4600-1 588 (600-1)		4600-1½ 588 (600-1½)	4600-2	588 (600-2)

LIRL Rwy 26 **L***

VOR/DME AHC 109.0 Chan 27	APCH CRS 268°	Rwy Idg 10,000 TDZE 4012 Arpt Elev 4012
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AL-6624 [USA]

AMEDEE AAF (KAHC)

Procedure not authorized at night.

** Circling NA for CATS DE north of Rwy 8-26.

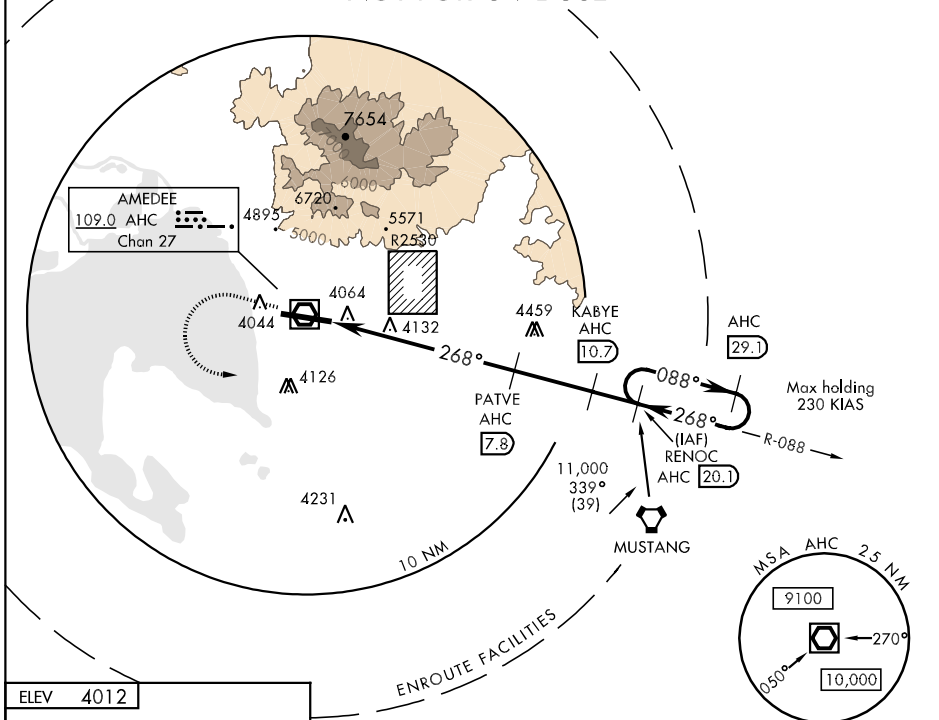
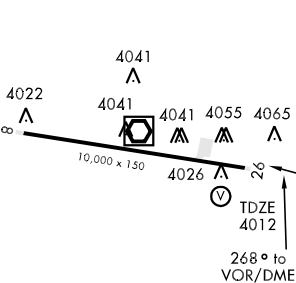
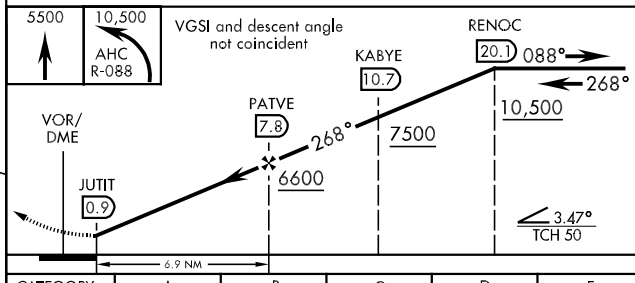
MISSED APPROACH: Climb to 5500, then climbing left turn to 10,500 via AHC R-088 to RENOC (20.1 DME) and hold, continue climb-in-hold to 10,500. When authorized by ATC, climb-in-hold to 14,000.

OAKLAND CENTER
128.8 285.5

CTAF

126.1 241.9 0*

NOT FOR CIVIL USE

ELEV **4012**LIRL Rwy 26 **0***

CATEGORY	A	B	C	D	E
S-26	4620-1 608 (700-1)		4620-1¾ 608 (700-1¾)	4620-2 608 (700-2)	4620-2¼ 608 (700-2¼)
CIRCLING **	4620-1 608 (700-1)		4620-1¾ 608 (700-1¾)	4620-2 608 (700-2)	4620-2¼ 608 (700-2¼)

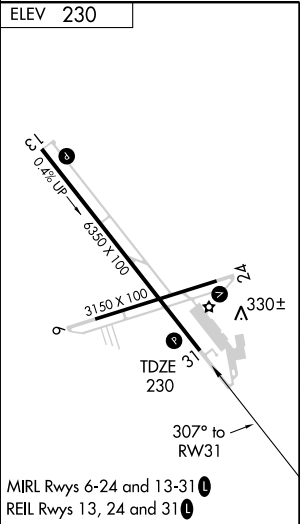
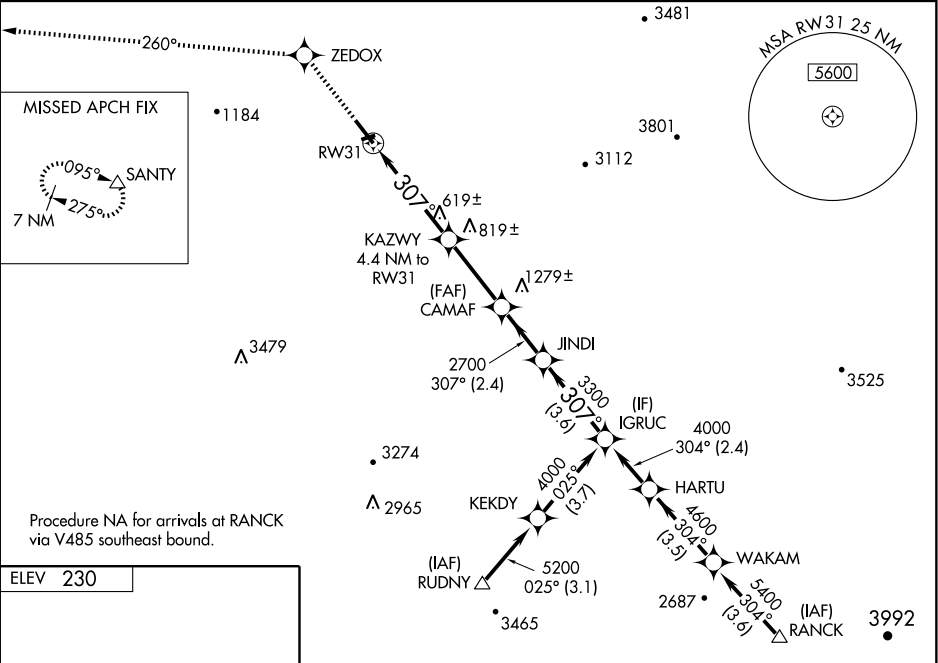
WAAS CH 93806 W31A	APP CRS 307°	Rwy Idg TDZE 230 Apt Elev 230
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RNAV (GPS) RWY 31
HOLLISTER MUNI (CVH)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Baro-VNAV NA when using Norman Y. Mineta (KSJC) San Jose Intl altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 54°C (130°F).
When local altimeter setting not received, use Norman Y. Mineta (KSJC) San Jose Intl altimeter setting, and increase all DAs/MDAs 120 feet and all visibilities ½ mile.
VDP NA when using Norman Y. Mineta (KSJC) San Jose Intl altimeter setting.

MISSED APPROACH: Climb to 7000 direct ZEDOX and via 260° track to SANTY and hold, continue climb-in-hold to 7000.

AWOS-3 120.425	NORCAL APP CON 124.525 348.675	UNICOM 123.0 (CTAF)
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7000	ZEDOX	260° track	SANTY	Procedure Turn NA
*LNAV only	KAZWY 4.4 NM to RWY 31	CAMAF	JINDI	IGRUC
	1.9 NM to RWY 31	1580	2700	307° 4000
	1.9 NM	2.5 NM	3.1 NM	2.4 NM
	3.6 NM			
CATEGORY	A	B	C	D
LPV DA	553-1¼	323 (400-1¼)		NA
LNAV/VNAV DA	801-2	571 (600-2)		NA
LNAV MDA	880-1	650 (700-1)	880-1¾ 650 (700-1¾)	NA
CIRCLING	880-1	650 (700-1)	880-1¾ 650 (700-1¾)	NA

NDB HGT
209APCH CRS
295°Rwy Idg
TDZE **1017**
Arpt Elev **1017**

AL-3073 [USA]

TUSI AHP (KHGT)

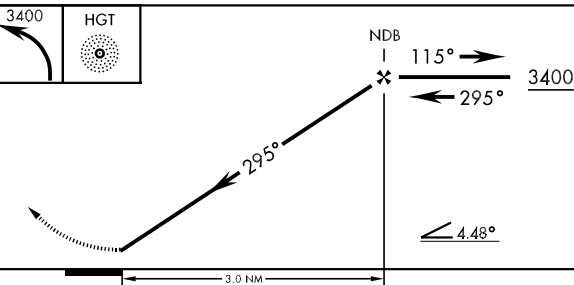
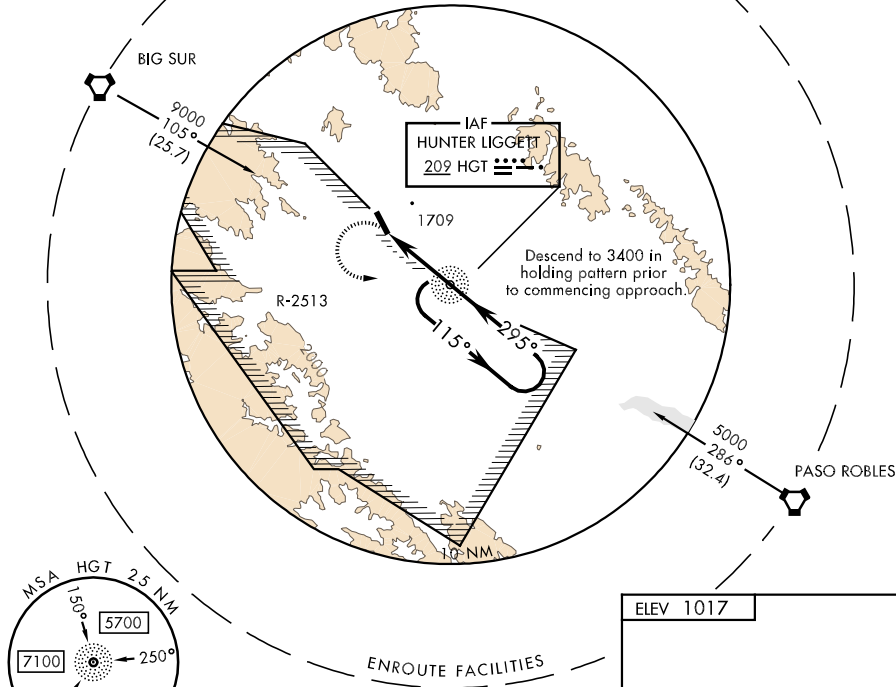
▲ NA Procedure NA when Fort Hunter-Liggett altimeter setting not available.

MISSED APPROACH: Climbing left turn to 3400 direct HGT NDB and hold.

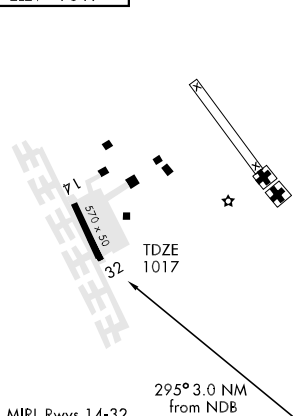
OAKLAND CENTER
128.7 307.0

RANGE CON/OPS
41.05 126.2 229.5

NOT FOR CIVIL USE



ELEV 1017



MIRL Rwy 14-32

295° 3.0 NM from NDB

CATEGORY	COPTER		
H-32	1980-¾	963	(1000-¾)

FAF to MAP 3.0 NM					
Knots	45	60	75	90	105
Min:Sec	4:00	3:00	2:24	2:00	1:43

APCH CRS	Rwy Idg	570
301°	TDZE	1017
	Arpt Elev	1017

AL-3073 (USA)

TUSI AHP (KHGT)

▲ NA Procedure NA when Fort Hunter-Liggett altimeter setting not available.
▼ Limit Final and Missed Approach to 90 KIAS.

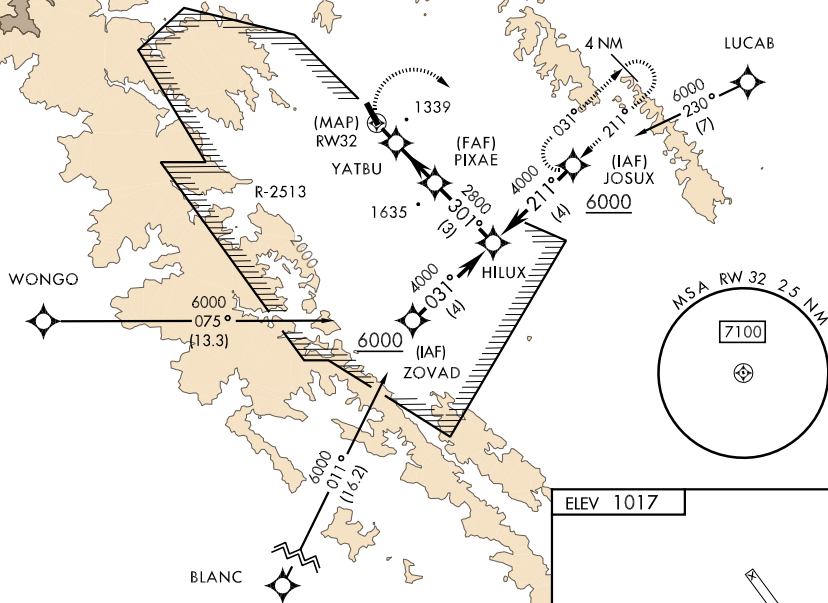
MISSSED APPROACH: Climbing right turn to 6000 direct JOSUX and hold.

OAKLAND CENTER
128.7 307.0

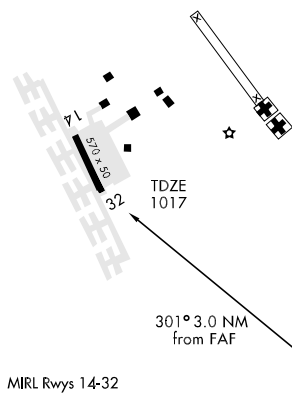
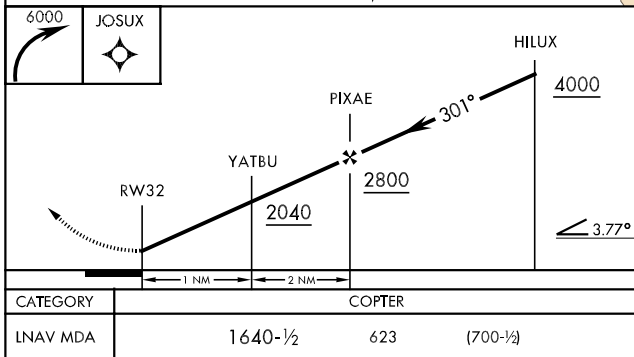
RANGE CON/OPS
41.05 126.2 229.5

NOT FOR CIVIL USE

DME/DME RNP-0.3 NA



ELEV 1017



MRL Rwy 14-32

TACAN NRS Chan 29	APCH CRS 255°	Rwy Idg 4999 TDZE 23 Arpt Elev 24
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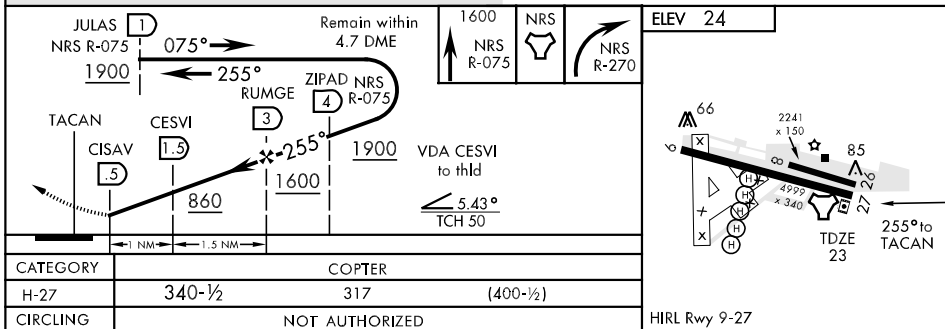
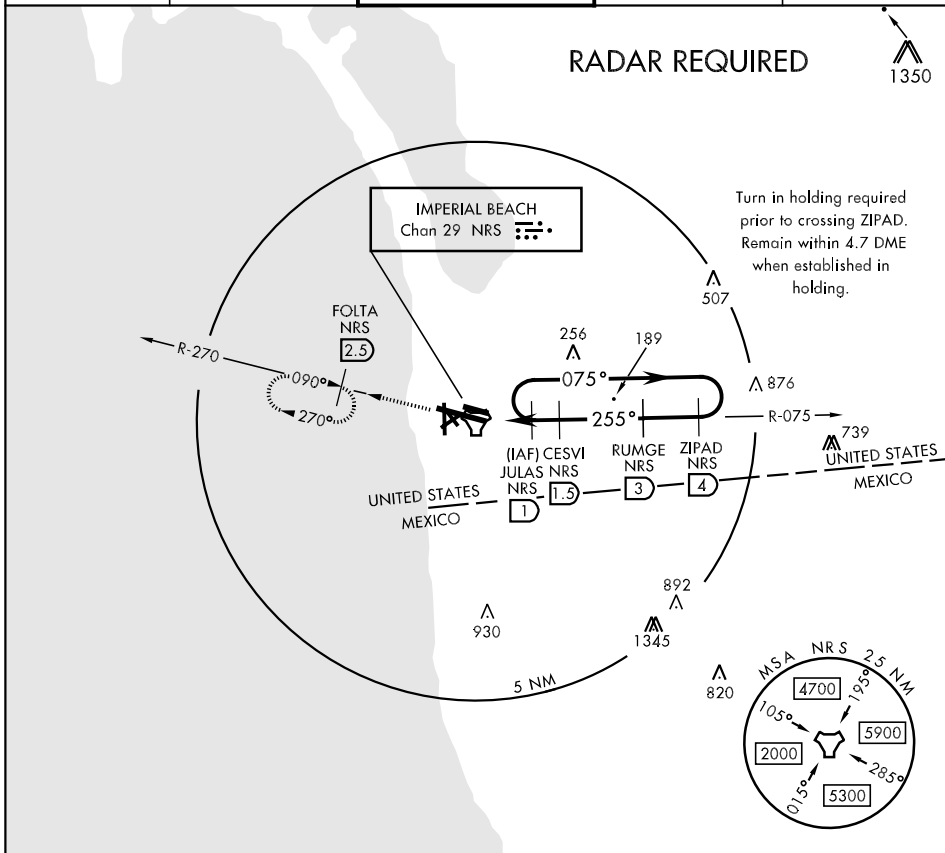
AL-307 [USN]

IMPERIAL BEACH NOLF (REAM FIELD) (KNRS)

▼ Use by tilt rotor aircraft not authorized.

MISSED APPROACH: Climb to 1600 via NRS R-075 to NRS TACAN, then via NRS R-270 to FOLTA and hold. Remain within 5.2 DME when established in holding.

ATIS ★ 276.2	SOCAL APP CON 125.15 317.55	IMPERIAL BEACH TOWER ★ 120.65 239.25	GND CON 285.575	ASOS
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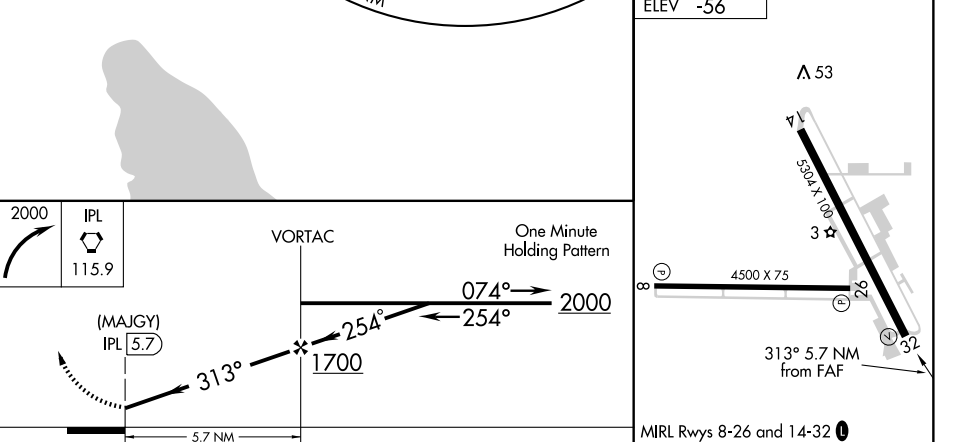
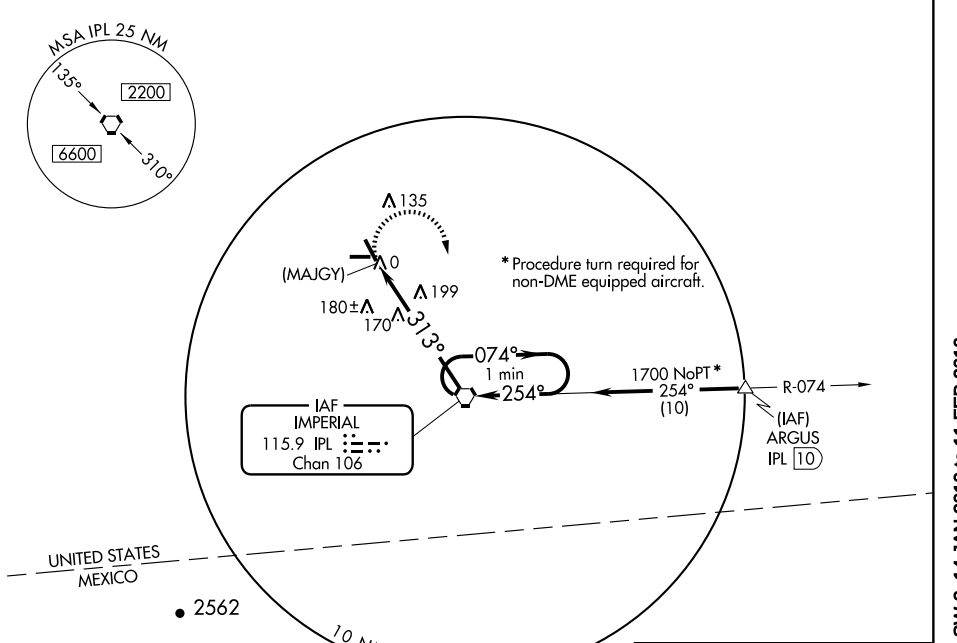


MISSED APPROACH: Climbing right turn to 2000
direct IPL VORTAC and hold.

ASOS
132.175

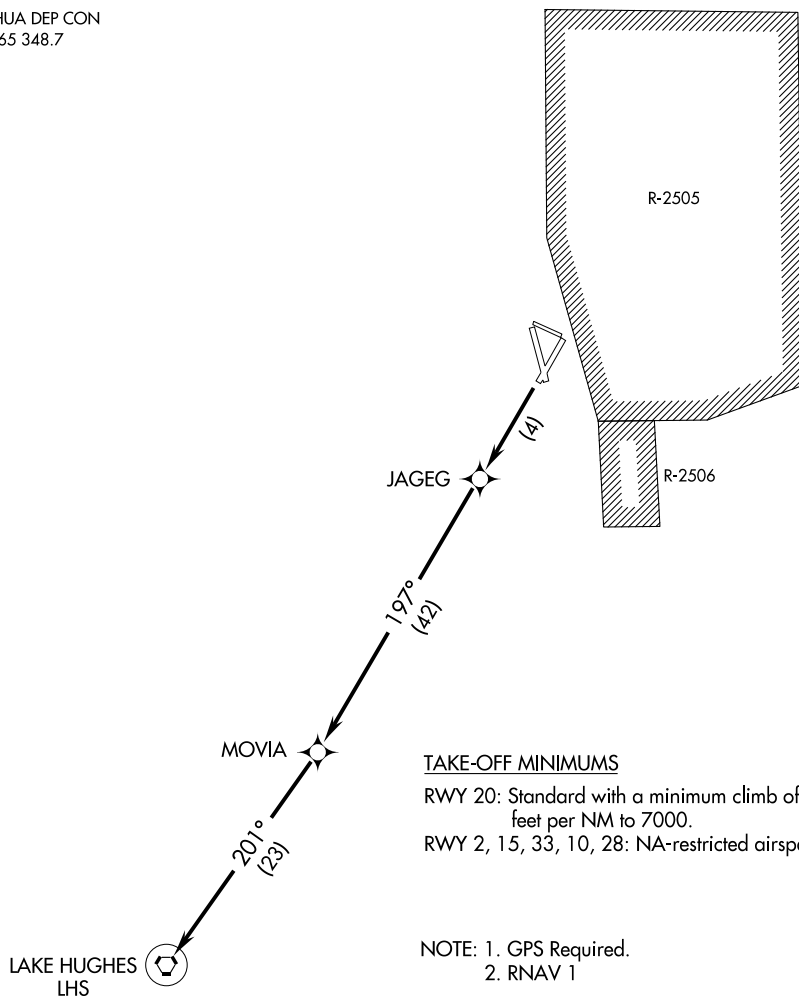
LOS ANGELES CENTER
128.6 291.7

UNICOM
122.7 (CTAF) **0**



CATEGORY	A	B	C	D	FAF to MAP 5.7 NM					
CIRCLING	560-1	616 (700-1)	560-1 ³ / ₄ 616 (700-1 ³ / ₄)	560-2 616 (700-2)	Knots	60	90	120	150	180
					Min:Sec	5:42	3:48	2:51	2:17	1:54

LAKE HUGHES TWO DEPARTURE (RNAV) (OBSTACLE)

JOSHUA DEP CON
133.65 348.7

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 20: Climb direct JAGEG then continue climb to 8000 via 197° track to MOVIA and 201° track to LHS VORTAC. Thence via assigned route and altitude.

TAKE-OFF RUNWAYS 2, 33, 15, 10, and 28: NA.

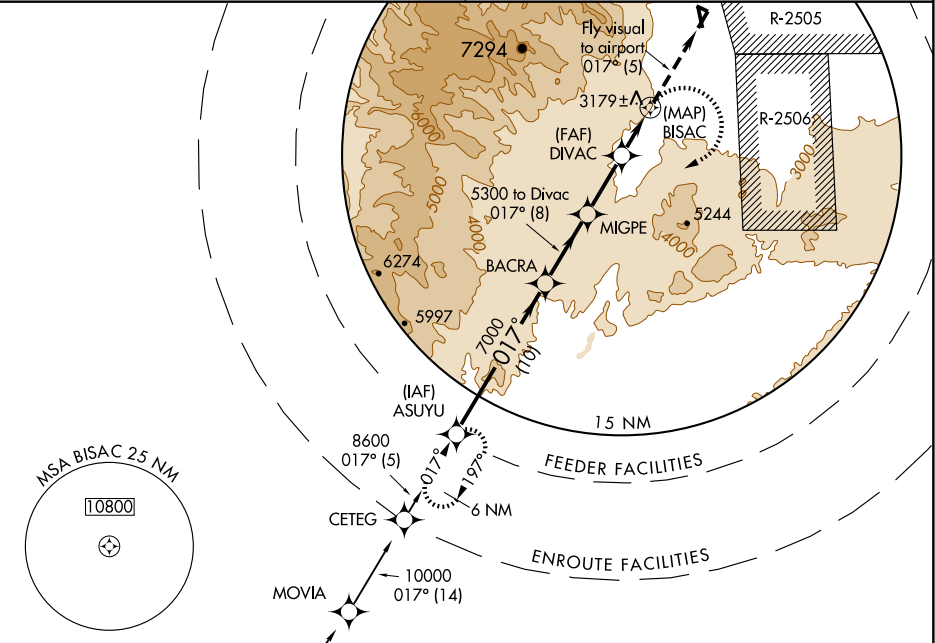
APP CRS	Rwy Idg	6275
017°	TDZE	2442
	Apt Elev	2457

RNAV (GPS) Y RWY 2
INYOKERN (IYK)

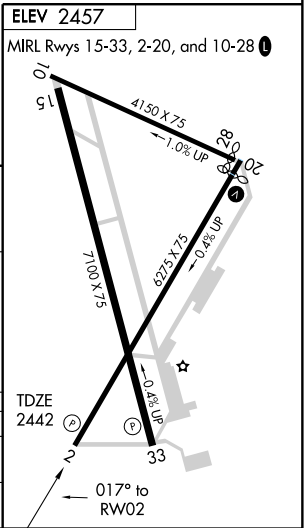
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Except for operators with approved weather reporting service, use NAS China Lake altimeter setting, if not available procedure NA.
Procedure NA at night.

MISSED APPROACH: Climbing right turn to 8600 direct MIGPE WP then left turn via 197° track to ASUYU WP and hold.

JOSHUA APP CON 133.65 348.7	UNICOM 122.8 (CTAF)
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CATEGORY	ASUYU		BACRA		DIVAC		MIGPE		ASUYU	
	8600				7000		5300		Fly visual to the airport 017° (5)	
	017°				3.32°		197°			
	10 NM		8 NM		3 NM		5 NM			
LNNAV MDA	4100-2		1658 (1700-2)		4100-3		1658 (1700-3)		NA	
CIRCLING	4100-2		1643 (1700-2)		4100-3		1643 (1700-3)		NA	



APP CRS	Rwy Idg	6275
017°	TDZE	2442
	Apt Elev	2457

RNAV (GPS) Z RWY 2

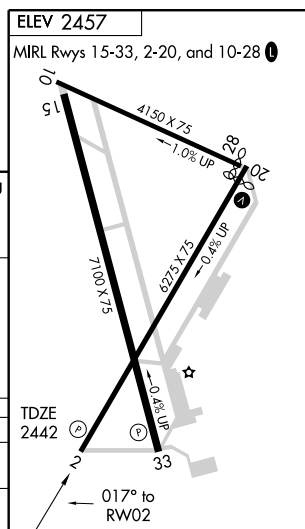
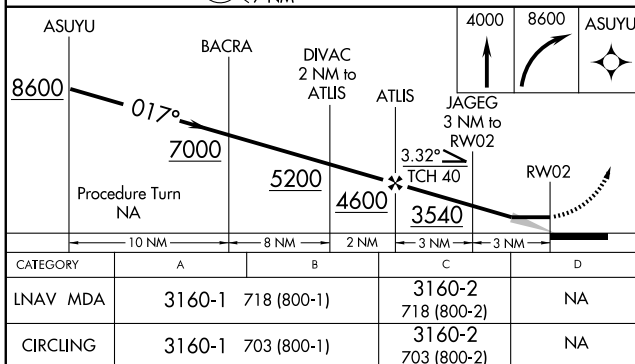
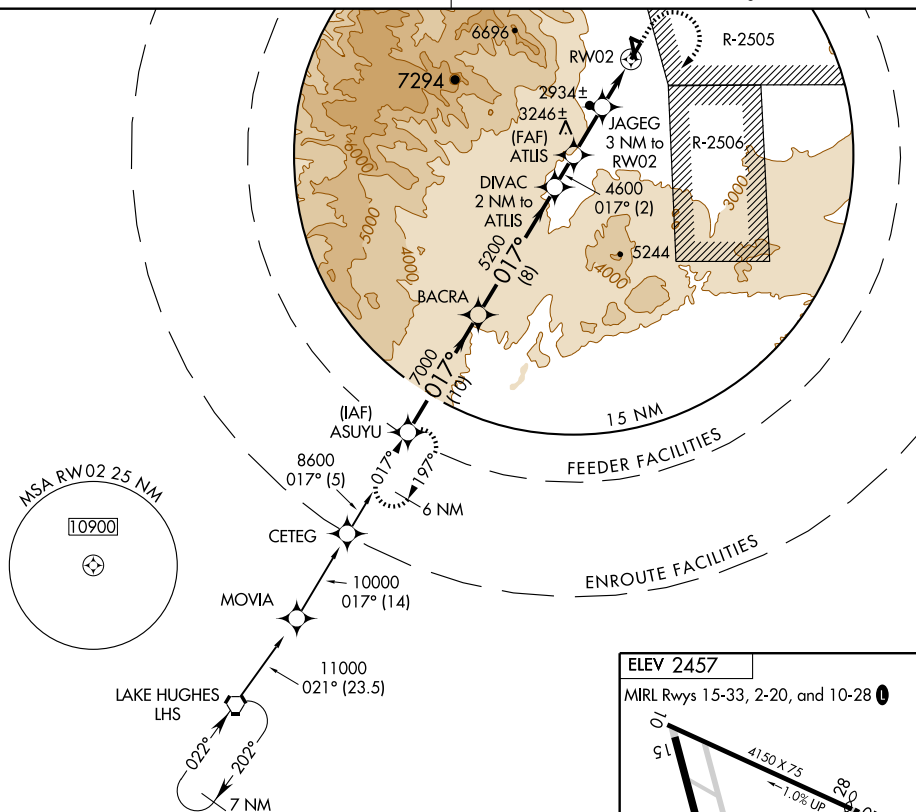
INYOKERN (IYK)

NA Except for operators with approved weather reporting services, use NAS China Lake altimeter setting, if not available procedure NA. Procedure NA at night. Procedure NA when R-2505 or R-2506 active.

MISSED APPROACH: Climb to 4000 then climbing right turn to 8600 direct ASUYU WP and hold.

JOSHUA APP CON
133.65 348.7

UNICOM
122.8 (CTAF) **L**



VORTAC LIN 114.8 Chan 95	APP CRS 012°	Rwy Idg 3401 TDZE 1690 Apt Elev 1690
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VOR/DME RWY 1

JACKSON/ WESTOVER FIELD AMADOR COUNTY(JAQ)

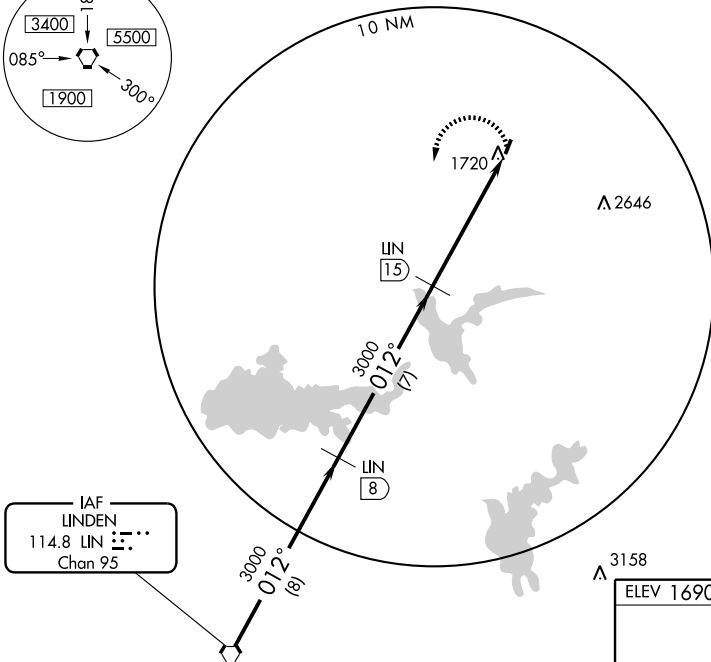
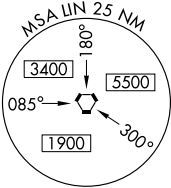
T If local altimeter not received, use Sacramento Executive
ANA altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 via LIN R-012 to LIN VORTAC.

AWOS-3
121.125

NORCAL APP CON
125.1 363.2

UNICOM
123.075 (CTAF) **L**



4120

A 2646

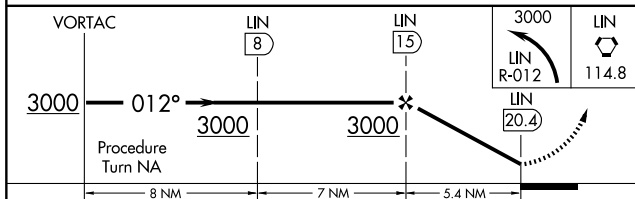
• 3012

• 2940

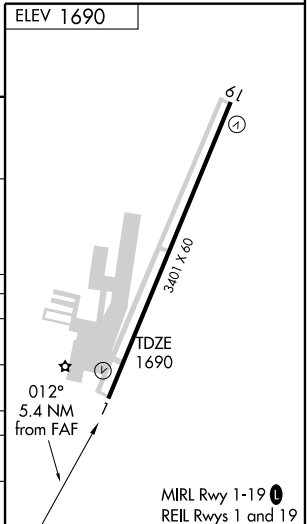
• 2794

3158

ELEV 1690

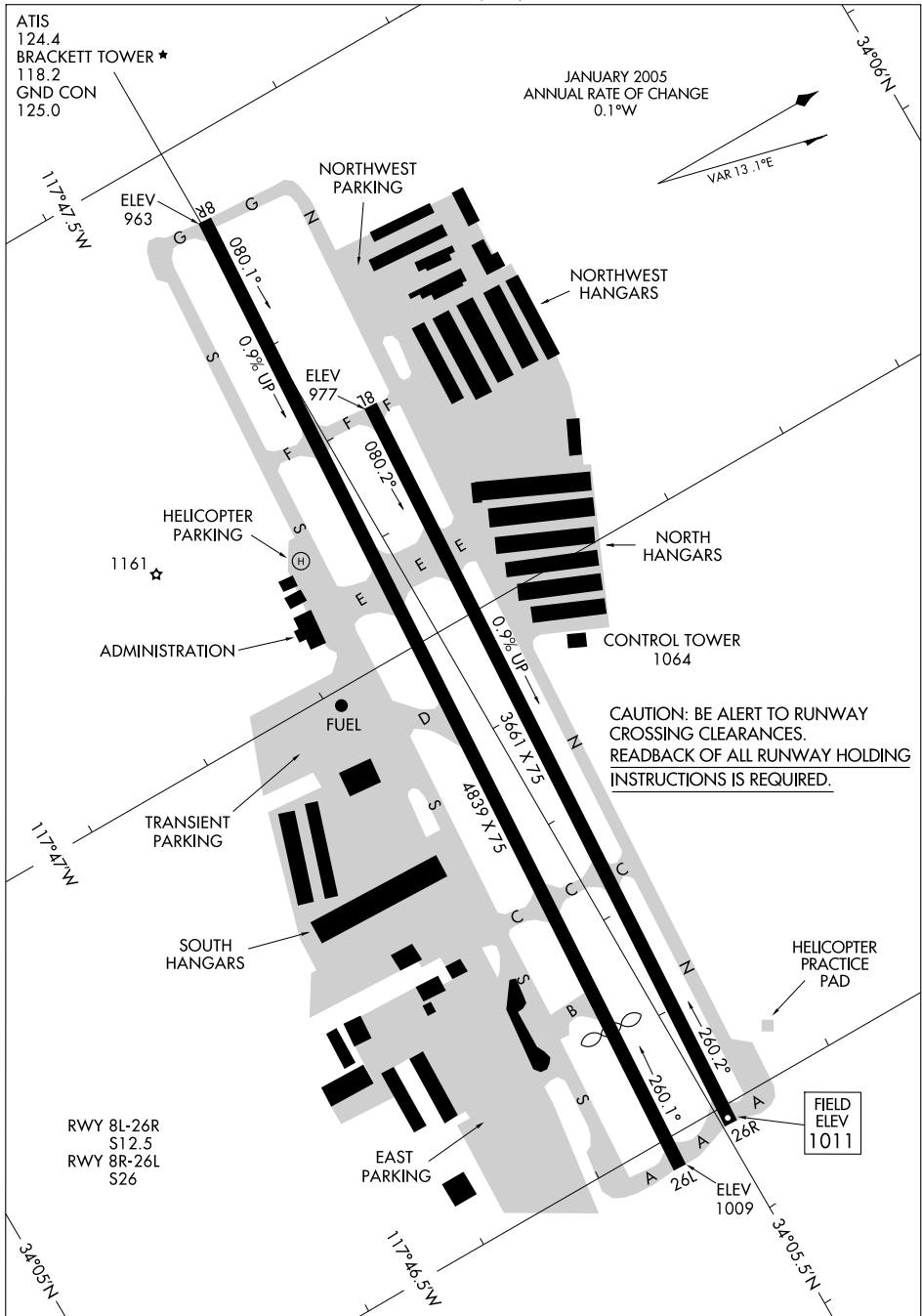


CATEGORY	A	B	C	D
S-1	2080-1 390 (400-1)	2080-1¼ 390 (400-1¼)	NA	
CIRCLING	2200-1 510 (600-1)	2200-1¼ 510 (600-1¼)	NA	
SACRAMENTO EXECUTIVE ALTIMETER SETTING MINIMUMS				
S-1	2380-1 690 (700-1)	2380-1¼ 690 (700-1¼)	NA	
CIRCLING	2520-1 830 (900-1)	2520-1¼ 830 (900-1¼)	NA	



AIRPORT DIAGRAM

AL-5218 (FAA)

LA VERNE/BRACKETT FIELD (POC)
LA VERNE, CALIFORNIA

▼

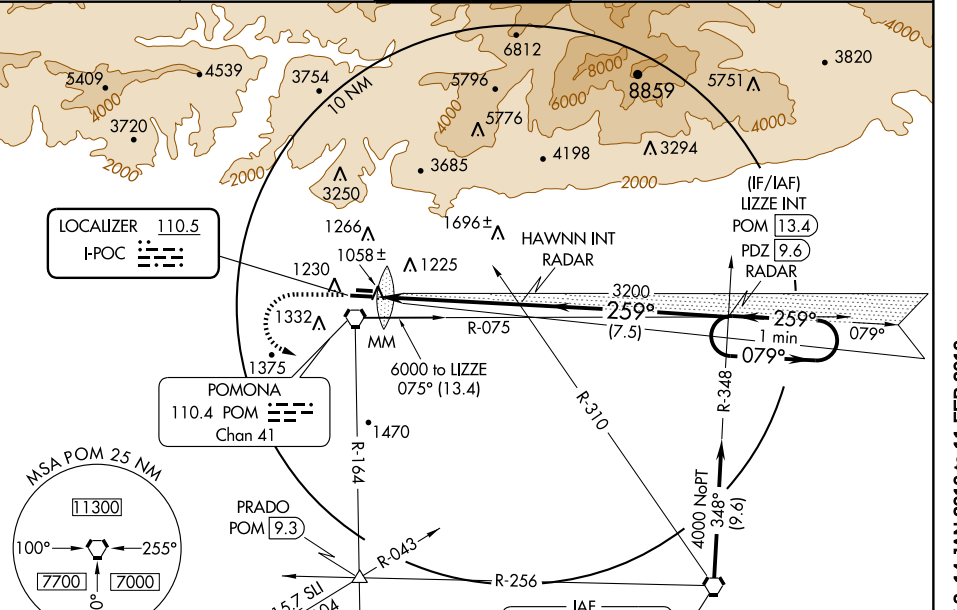
Visibility reduction by helicopters NA.

▲

When local altimeter setting not received, use Ontario Intl altimeter setting and increase DA to 1363.

MISSED APPROACH: Climb to 2100, then climbing left turn to 4000 via POM VORTAC R-164 to PRADO INT/POM 9.3 DME.

ATIS 124.4	SOCAL APP CON 125.5 349.0	BRACKETT TOWER ★ 118.2 (CTAF)	GND CON 125.0	UNICOM 122.95
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ELEV 1011

Rwy 26L Idg 4151'

Procedure NA for arrivals at PDZ VORTAC on airway radials 292 CW 030.

When GS not used, use LOC RWY 26L procedure.

ALTERNATE MISSED APCH FIX

PARADISE PDZ 112.2 Chan 59

REIL Rwy 8R and 26L
MIRL Rwy 8R-26L

2100

4000

PRADO △

VGSi and ILS glidepath not coincident.

HAWNN INT RADAR

LIZZE INT POM 13.4 PDZ 9.6 RADAR

One Minute Holding Pattern

3200

3200

0.6 4.8 NM 7.5 NM

*at Displ. Thld; 57 at Rwy end. GS 3.76° *TCH 19

CATEGORY	A	B	C	D	
S-ILS 26L	1332-1	330 (400-1)	NA		
Knots	60	90	120	150	180
Min:Sec					

SW-3, 14 JAN 2010 to 11 FEB 2010

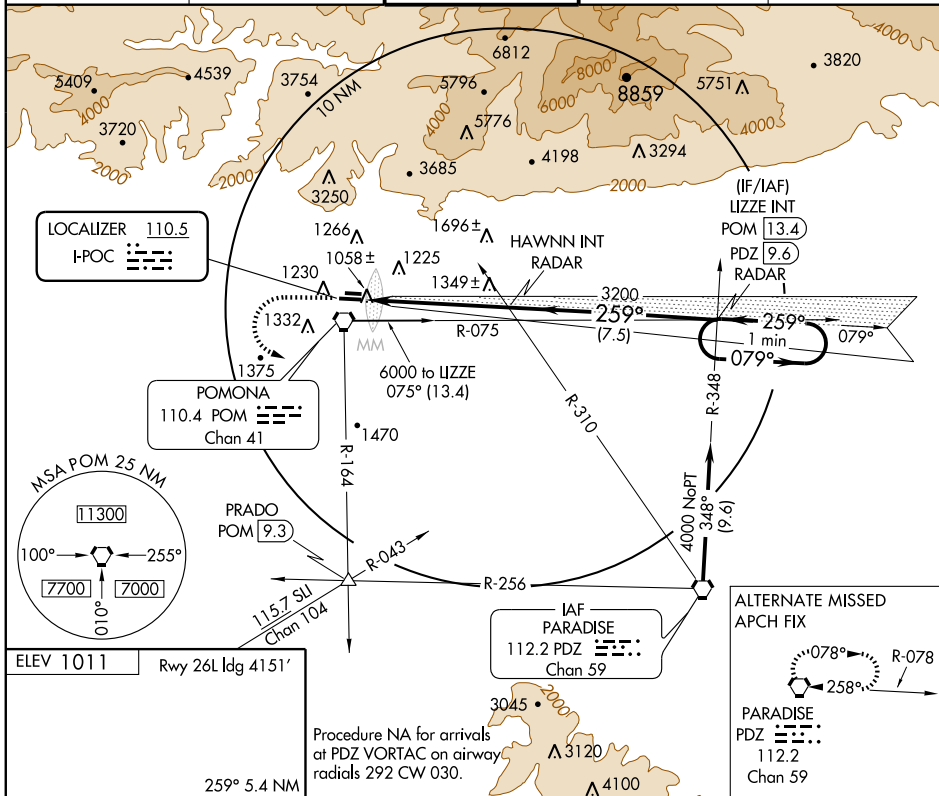
LOC I-POC 110.5	APP CRS 259°	Rwy Idg TDZE Apt Elev	4151 1002 1011
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LOC RWY 26L

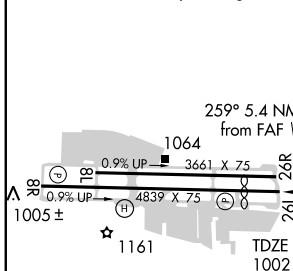
LA VERNE/BRACKETT FIELD (POC)

⚠ Visibility reduction by helicopters NA. ⚠ When local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDAs 40 feet.	MISSED APPROACH: Climb to 2100 then climbing left turn to 4000 via POM VORTAC R-164 to PRADO INT/POM 9.3 DME.
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ATIS 124.4	SOCAL APP CON 125.5 349.0	BRACKETT TOWER ★ 118.2 (CTAF)	GND CON 125.0	UNICOM 122.95
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ELEV 1011 Rwy 26L Idg 4151'



REIL Rwy 8R and 26L
MIRL Rwy 8R-26L

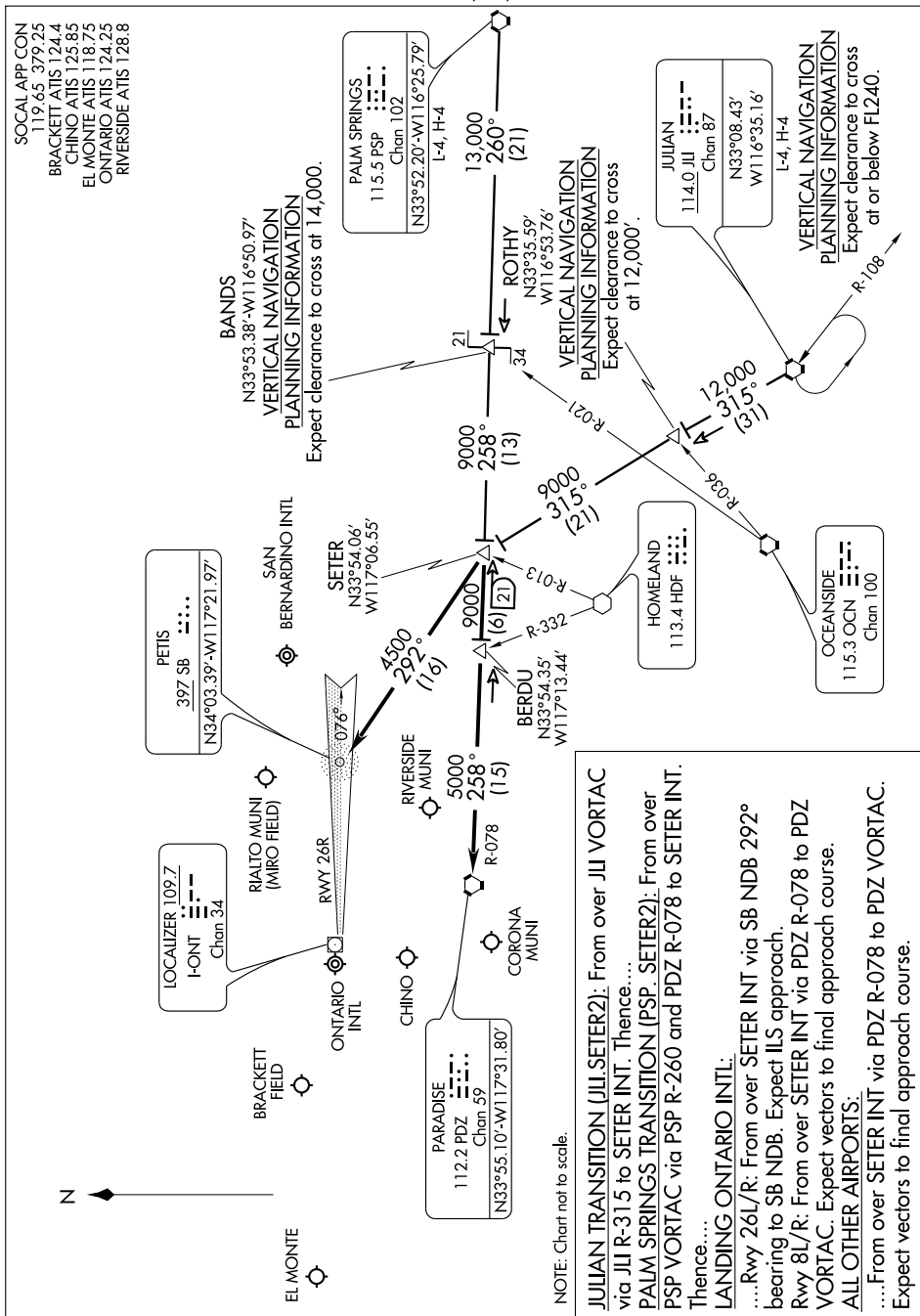
FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

2100	4000	PRADO	HAWNN INT RADAR	LIIZE INT POM 13.4 PDZ 9.6 RADAR	One Minute Holding Pattern
↑	↻	△	≤ 3.77° TCH 40	259° 079° 4000	
5.4 NM	7.5 NM				
CATEGORY	A	B	C	D	
S-26L	1600-1 598 (600-1)		NA		
CIRCLING	1680-1 669 (700-1)		NA		

SETTER TWO ARRIVAL

ST-965 (FAA)

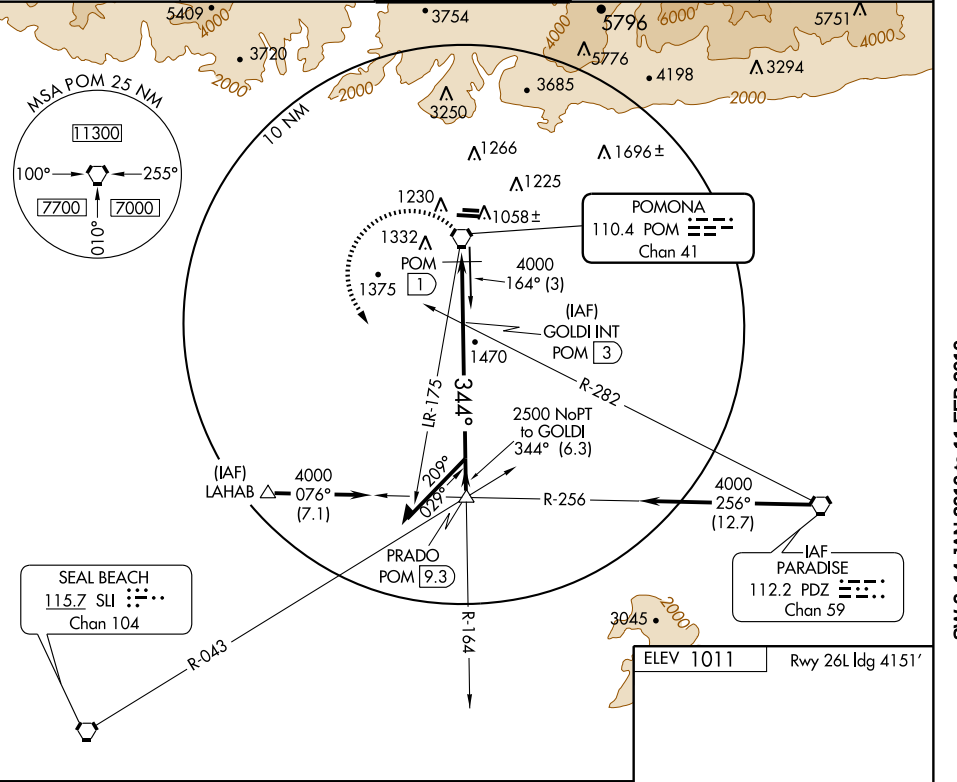
ONTARIO, CALIFORNIA



When local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDA 40 feet and visibility Cat. C ¼ mile.

MISSED APPROACH: Climbing left turn to 4000 via POM R-164 to PRADO Int.

ATIS 124.4	SOCAL APP CON 125.5 349.0	BRACKETT TOWER ★ 118.2 (CTAF)	GND CON 125.0	UNICOM 122.95
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4000

PRADO

GOLDI INT

POM

3

Remain within 10 NM

VORTAC

POM

1

1800

2500

164°

344°

4000

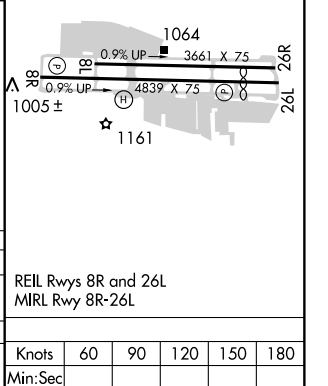
1 NM

2 NM

CATEGORY	A	B	C	D
CIRCLING	1800-1 789 (800-1)	1800-1¼ 789 (800-1¼)	1800-2¼ 789 (800-2¼)	NA

DME MINIMUMS

CIRCLING	1640-1 629 (700-1)	1680-1¼ 669 (700-1¼)	NA
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SW-3, 14 JAN 2010 to 11 FEB 2010

ZIGGY FOUR ARRIVAL

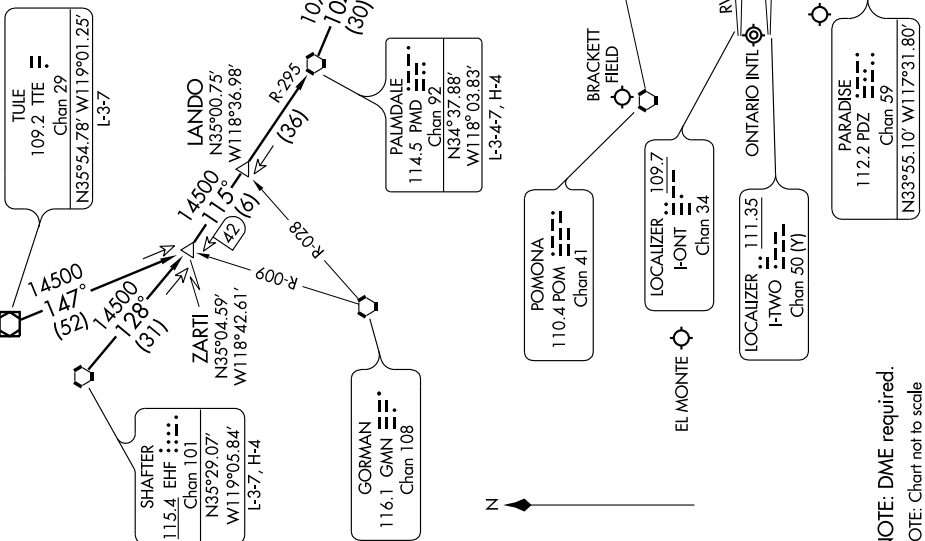
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

LAKEPORT TWO DEPARTURE (RNAV)

LAKEPORT, CALIFORNIA

OAKLAND CENTER
127.8 353.5
AWOS-2
118.35

TAKE-OFF MINIMUMS

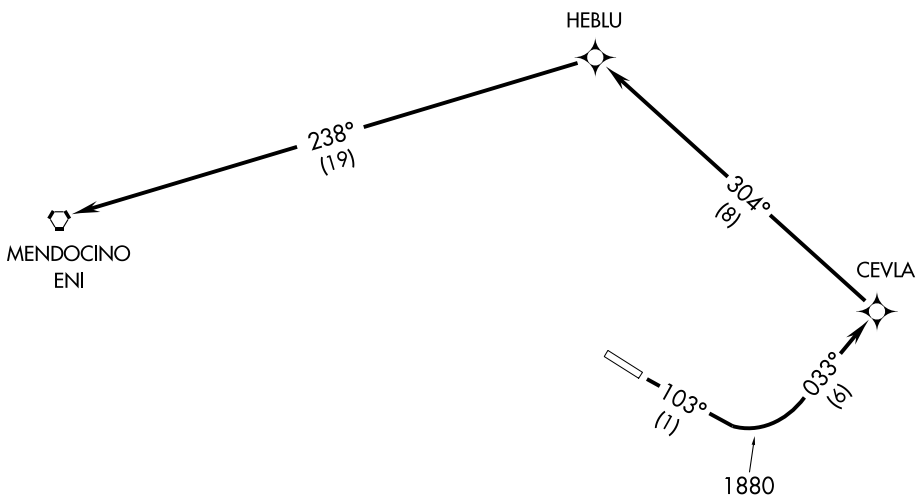
Rwy 10: Standard with minimum
climb of 496' per NM to 4500.

Rwy 28: NA- Rapidly rising terrain.

NOTE: TAKE-OFF Rwy 10: Do not exceed 175 knots until passing HEBLU.

NOTE: 1. GPS Required.

2. RNAV 1.

TAKE-OFF OBSTACLE NOTES

Rwy 10: Vehicle on road 347' from DER, 7' right of centerline, 15' AGL/1394' MSL.

Trees beginning 280' from DER, 201' left of centerline, up to 100' AGL/1479' MSL.

Trees beginning 494' from DER, 219' right of centerline, up to 100' AGL/1479' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 10: Climb heading 103° to 1880, then climb to 6000 on 033° course to CEVLA, then via 304° track to HEBLU, then via 238° track to ENI VORTAC, thence

. . . . via assigned route, expect clearance to filed altitude 10 minutes after departure.

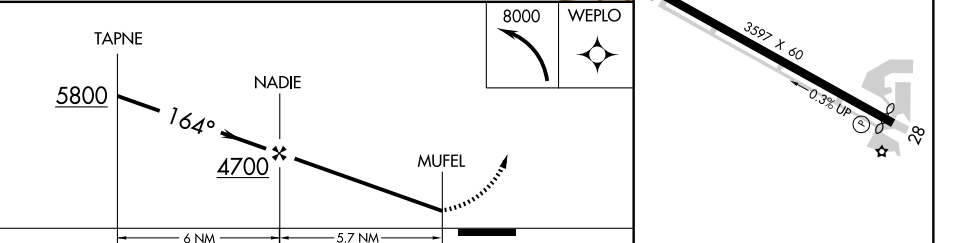
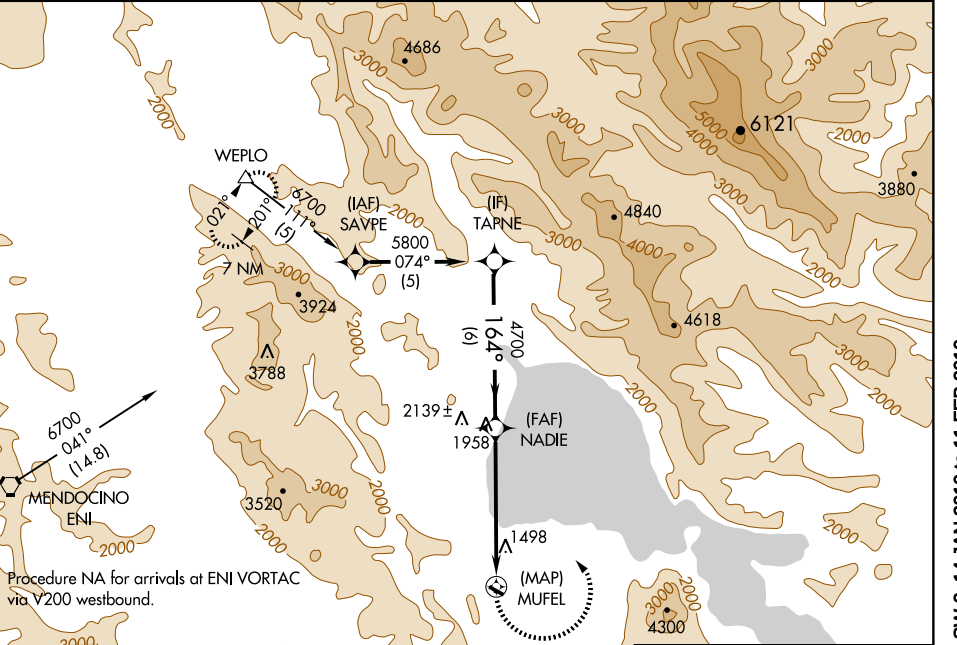
NA

Circling NA south of Rwy 10 and 28. DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Ukiah altimeter setting and increase all MDA 560 feet.

MISSED APPROACH: Climbing left turn to 8000 direct WEPLO and hold, continue climb-in-hold to 8000.

AWOS-2 118.35	OAKLAND CENTER 127.8 353.5	UNICOM 122.8 (CTAF) 0
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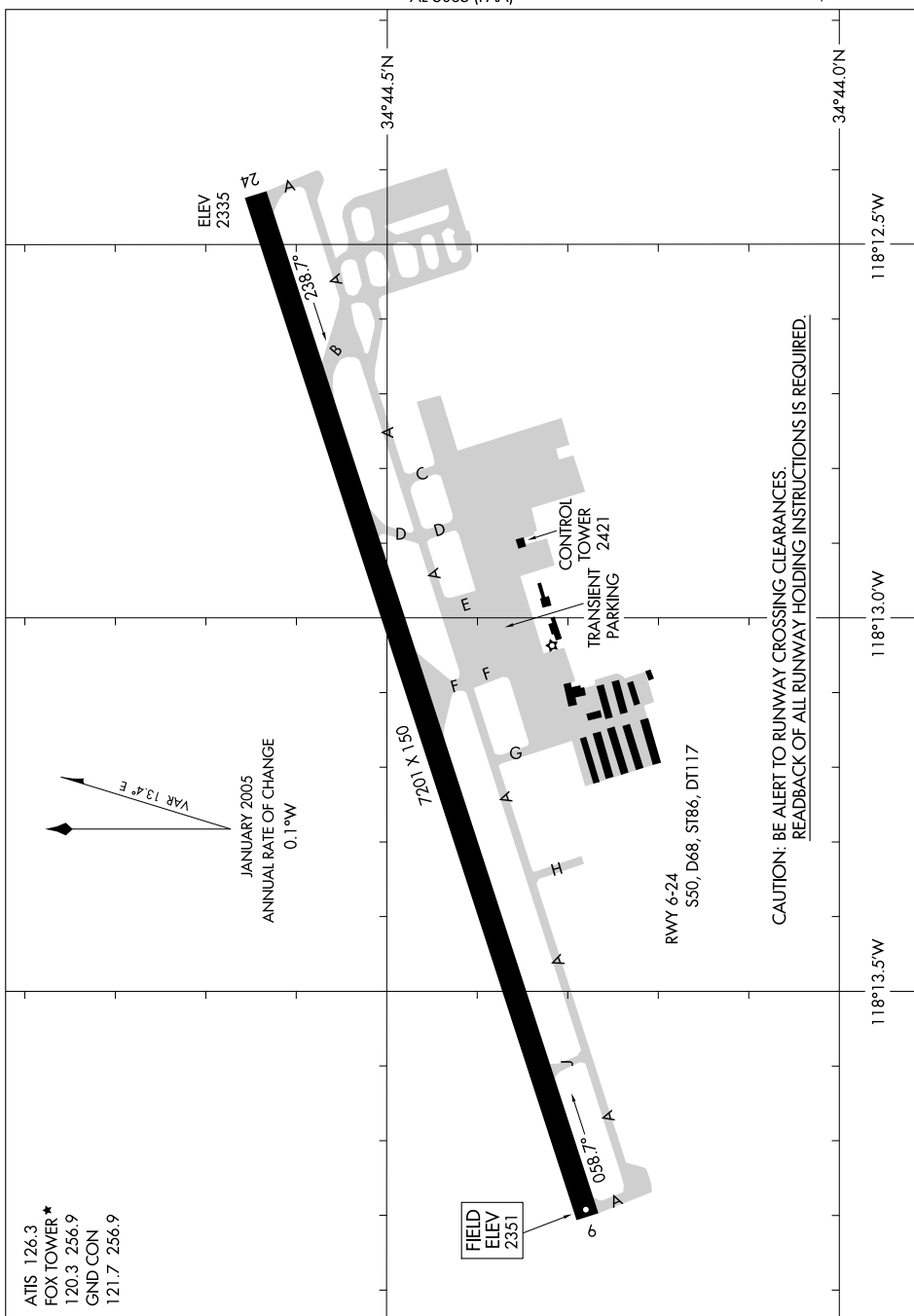


CATEGORY	A	B	C	D
CIRCLING	2520-1¼ 1141 (1200-1¼)	2520-1½ 1141 (1200-1½)	NA	

MIRL Rwy 10-28 0

AIRPORT DIAGRAM

LANCASTER/ GENERAL WILLIAM J. FOX AIRFIELD (WJF)
AL-5065 (FAA) LANCASTER, CALIFORNIA



LANCASTER/GENERAL WILLIAM J. FOX AIRFIELD (WJF)

NDB GWF <u>282</u>	APP CRS 113°	Rwy Idg TDZE Apt Elev	N/A N/A 2351
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T
A NA

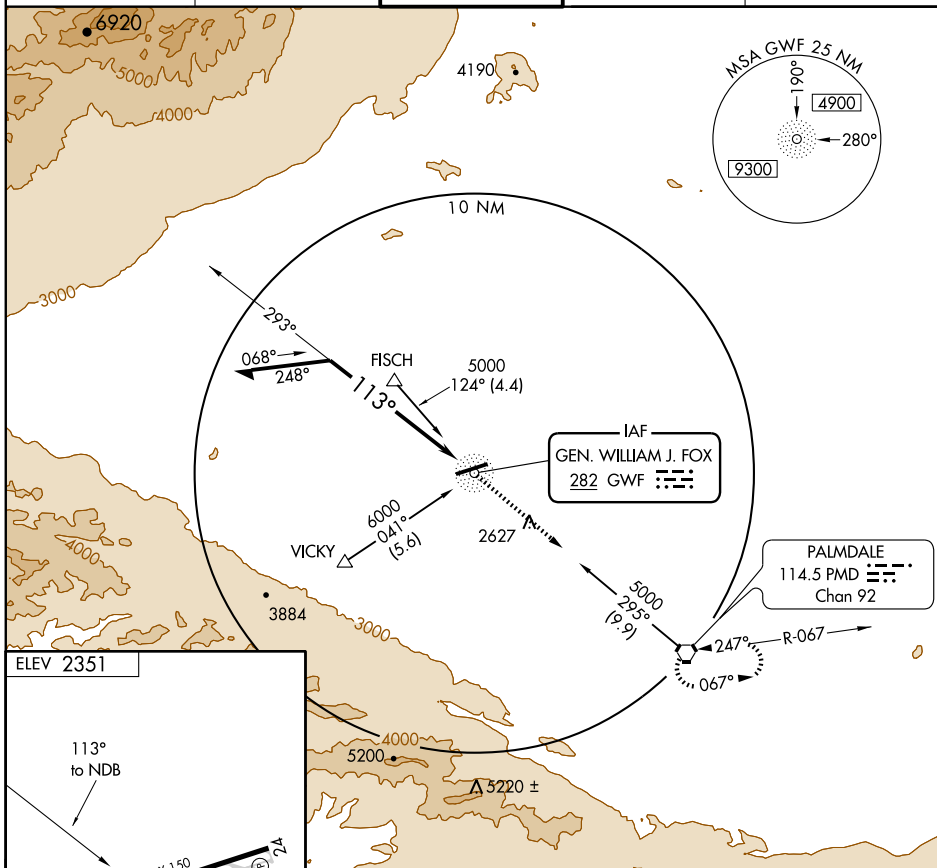
MISSED APPROACH: Climb to 4500 direct PMD VORTAC and hold.

ATIS
126.3

JOSHUA APP CON
126.1 290.3

FOX TOWER ★
120.3 (CTAF) 256.9

GND CON
121.7 256.9

UNICOM
122.95

ELEV 2351

113°
to NDB

150

12421

Remain
within 10 NM

* NDB

* Maximum entry altitude 10000.

4500

PMD

REIL Rwy 6 and 24
MIRL Rwy 6-24

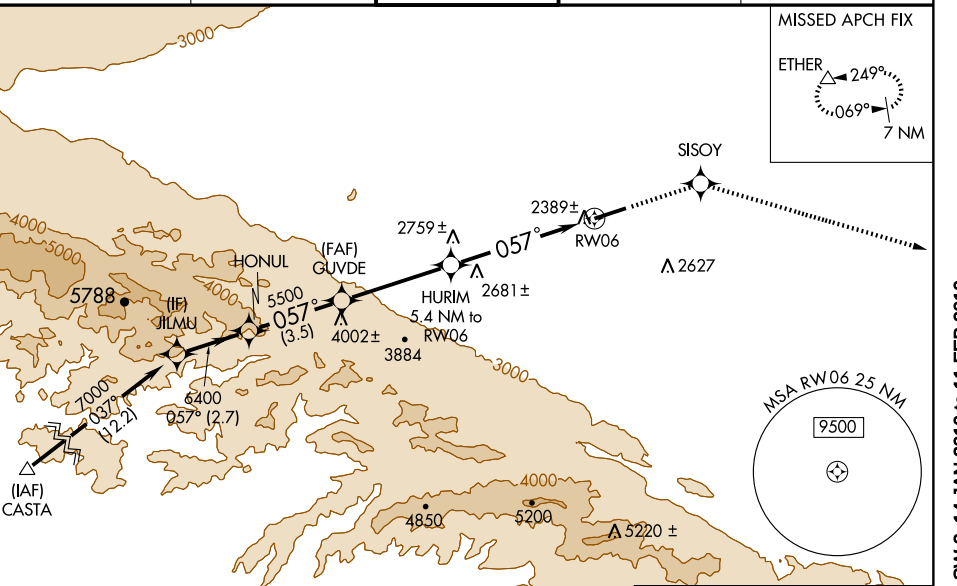
CATEGORY	A	B	C	D
CIRCLING	3100-1 749 (800-1)	3100-1¼ 749 (800-1¼)	3100-2¼ 749 (800-2¼)	3100-2½ 749 (800-2½)

WAAS CH 93702 W06A	APP CRS 057°	Rwy Idg TDZE Apt Elev 7201 2351 2351
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▼ When VGSI inoperative, straight-in/circling Rwy 6 procedure NA at night.
▲ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F).
If local altimeter setting not received, use Palmdale altimeter setting and increase all DA/MDAs 60 feet.
Baro-VNAV NA when using Palmdale altimeter setting.

MISSED APPROACH: Climb to 6000 direct SISOY and via 091° track to ETHER and hold.

ATIS 126.3	JOSHUA APP CON 126.1 290.3	FOX TOWER ★ 120.3 (CTAF) 256.9	GND CON 121.7 256.9	UNICOM 122.95
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ELEV 2351

JILMU

HONUL

GUVDE

HURIM

RWY 06

7000

057°

6400

5500

*4100

2.7 NM

3.5 NM

4.1 NM

5.4 NM

*LNAV only

CATEGORY	A	B	C	D
LPV DA	2601-1	250 (300-1)		
LNAV/VNAV DA	2649-1	298 (300-1)		
LNAV MDA	2940-1	589 (600-1)	2940-1½ 589 (600-1½)	2940-1¾ 589 (600-1¾)
CIRCLING	2940-1	589 (600-1)	2940-1½ 589 (600-1½)	2940-2 589 (600-2)

TDZE 2351

7201 X 150

057° to RWY 06

RWY 06

RWY 24

REIL Rwy 6 and 24
MIRL Rwy 6-24

SW-3, 14 JAN 2010 to 11 FEB 2010

VORTAC PMD 114.5 Chan 92	APP CRS 116°	Rwy Idg TDZE Apt Elev	N/A N/A 2351
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LANCASTER/GENERAL WILLIAM J. FOX AIRFIELD (WJF)

VOR-B



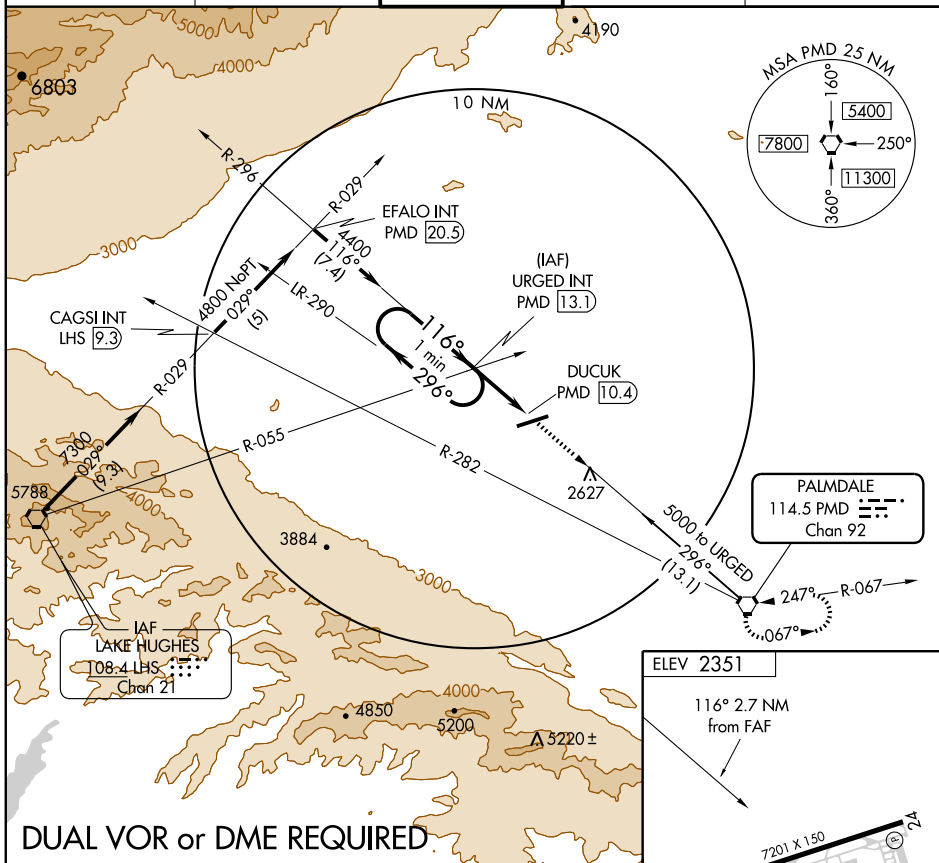
MISSED APPROACH: Climb to 4500 direct PMD VORTAC and hold.

ATIS
126.3

JOSHUA APP CON
126.1 290.3

FOX TOWER ★
120.3 (CTAF) 256.9

GND CON
121.7 256.9

UNICOM
122.95

DUAL VOR or DME REQUIRED

One Minute Holding Pattern

URGENT
INT

$$\frac{4500}{116^\circ} \frac{296^\circ}{\rightarrow}$$

4400 ^{*} 11/10

-27 NM

Age Group	Percentage
18-24	10%
25-34	20%
35-44	30%
45-54	25%
55-64	15%
65-74	10%
75-84	5%
85+	5%

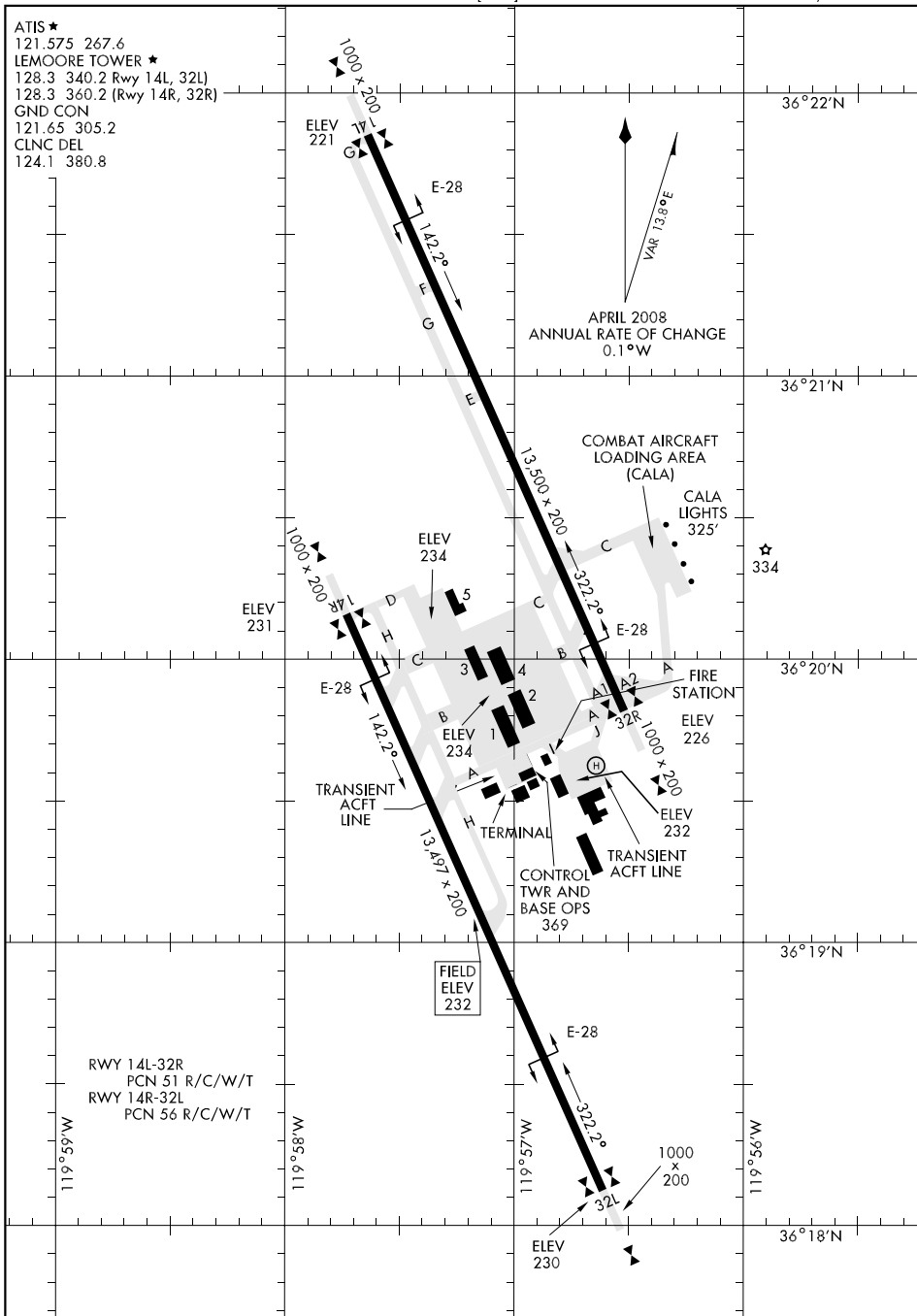
REIL Rwy 6 and 24
MIRL Rwy 6-24

FAF to MAP 2.7 NM

CATEGORY	A	B	C	D	FAF to MAP 2.7 NM					
CIRCLING	3320-1¼ 969 (1000-1¼)	3320-1½ 969 (1000-1½)	3320-3 969 (1000-3)		Knots	60	90	120	150	180
		Min:Sec			2:42	1:48	1:21	1:05	0:54	

ATIS ★
121.575 267.6
LEMOORE TOWER ★
128.3 340.2 Rwy 14L, 32L)
128.3 360.2 (Rwy 14R, 32R)
GND CON
121.65 305.2
CLNC DEL
124.1 380.8

SW-2, 14 JAN 2010 to 11 FEB 2010



TACAN NLC Chan 80	APCH CRS 164°	Rwy Idg 13,500 TDZE 222 Arpt Elev 232
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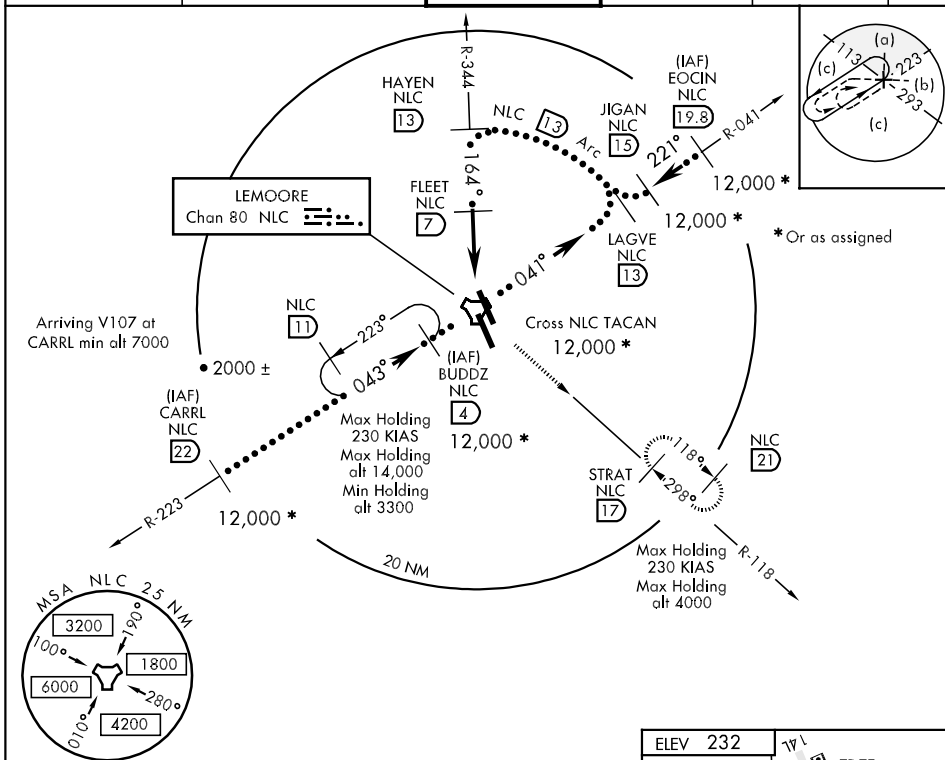
JAL-5067 [USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

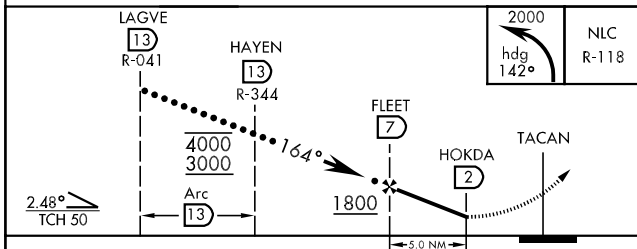


MISSED APPROACH: Climbing left turn to 2000 via heading 142°, intercept NLC R-118 to STRAT and hold.

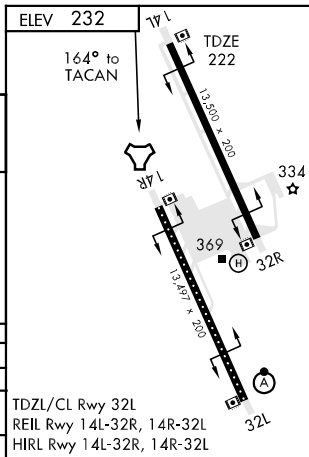
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	C	D	E
S-14L	520-1	298	(300-1)
CIRCLING	700-1½ 468 (500-1½)	800-2	568 (600-2)
S-PAR 14L	322-½	100 (100-½)	GS 3.0°



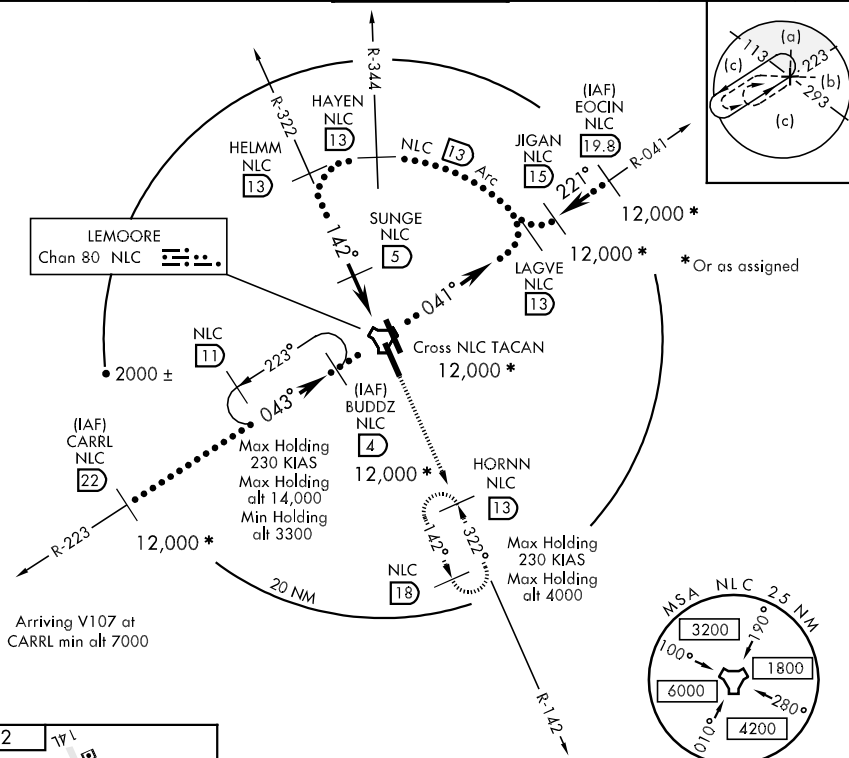
TACAN NLC Chan 80	APCH CRS 142°	Rwy Idg 13,497 TDZE 231 Arpt Elev 232
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JAL-5067 [USN]

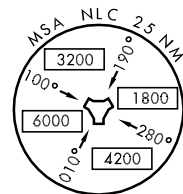
LEMOORE NAS (REEVES FIELD) (KNLC)

▼ MISSED APPROACH: Climb to 3000 via R-142 to HORNN and hold.

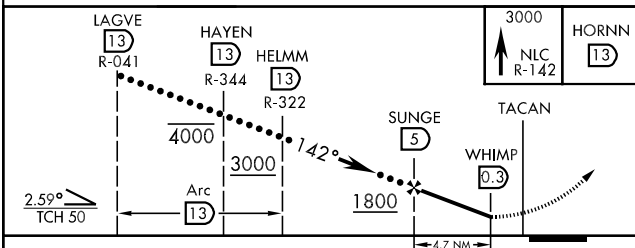
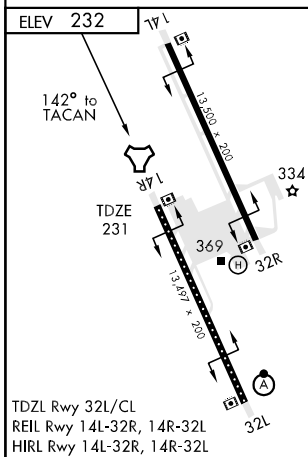
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR
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* Or as assigned

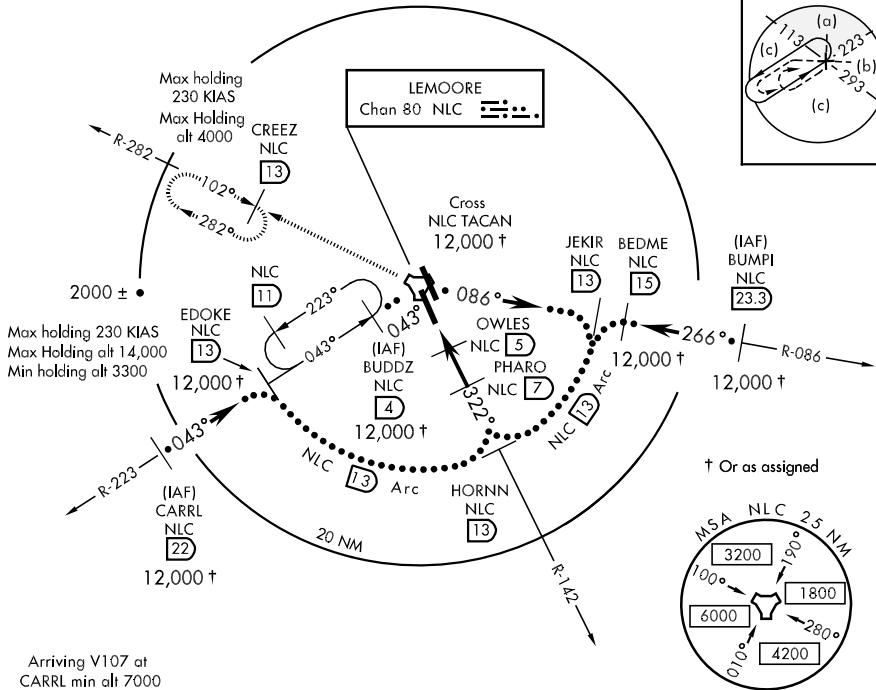


EMERG SAFE ALT 100 NM 16,500

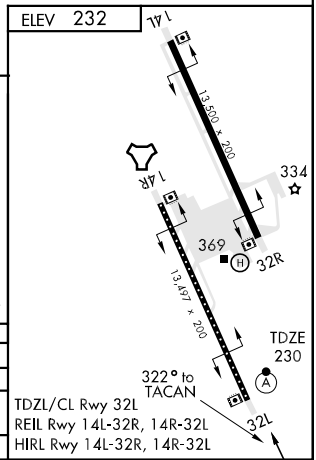
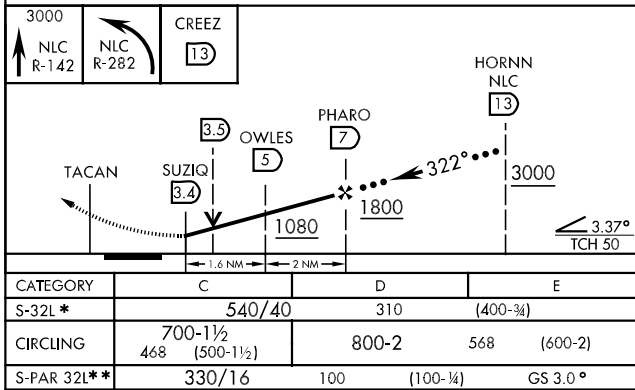


CATEGORY	C	D	E
S-14R	520-1	289	(300-1)
CIRCLING	700-1½ 468 (500-1½)	800-2	568 (600-2)
S-PAR 14R	331-½	100 (100-½)	GS 3.0°

TACAN NLC Chan 80	APCH CRS 322°	Rwy Idg 13,497 TDZE 230 Arpt Elev 232	JAL-5067 [USN]	LEMOORE NAS (REEVES FIELD) (KNLC)		
▼ * When ALS inop, increase CAT CDE RVR to 50 and vis to 1 mile. ** When ALS inop, increase CAT CDE RVR to 24 and vis to ½ mile.			ALSF-2 	MISSED APPROACH: Climb to 3000 via R-142 to NLC TACAN, then via R-282 to CREEZ and hold.		
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0		LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR



EMERG SAFE ALT 100 NM 16,500



TACAN NLC Chan 80	APCH CRS 322°	Rwy Idg 13,497 TDZE 230 Arpt Elev 232
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JAL-5067 [USN]

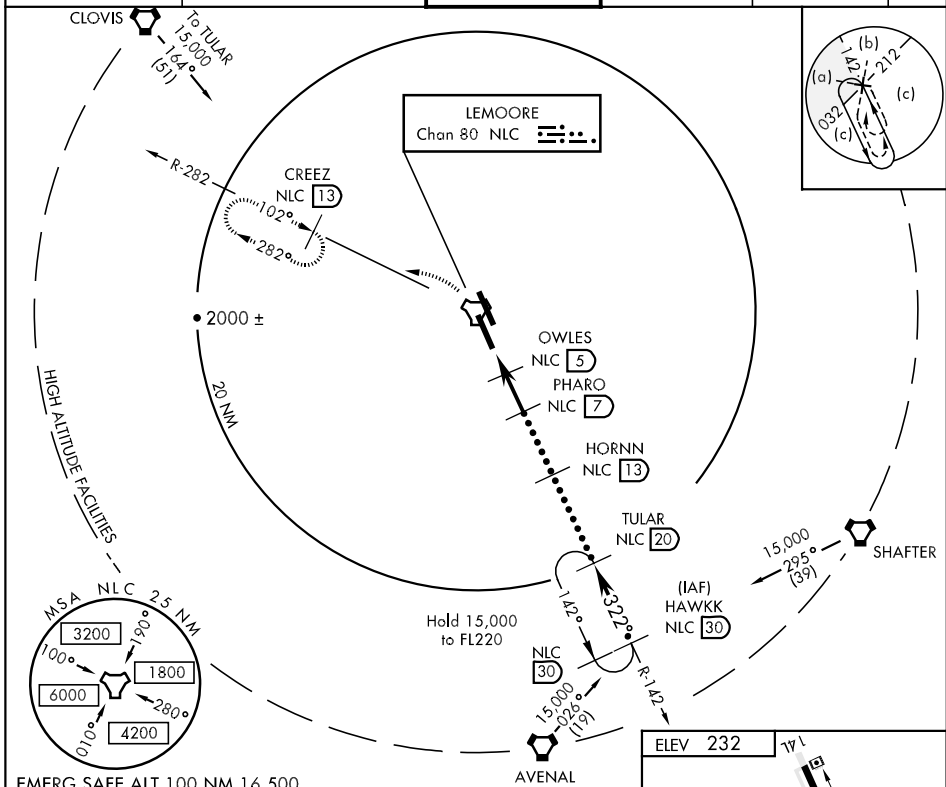
LEMOORE NAS (REEVES FIELD) (KNLC)

T * When ALS inop, increase CAT CDE RVR to 50 and vis to 1 mile.
 ** When ALS inop, increase CAT CDE RVR to 24 and vis to ½ mile.

ALSF-2

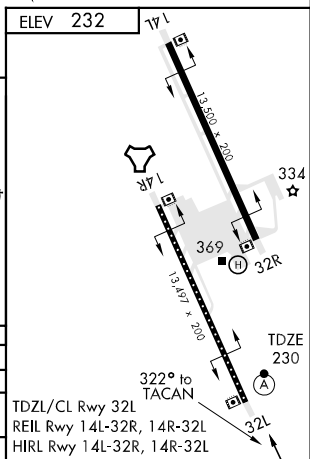
MISSED APPROACH: Climb to 3000 via R-142 to NLC TACAN, then via R-282 to CREEZ and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR
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EMERG SAFE ALT 100 NM 16,500

CATEGORY	C	D	E
S-32L *	540/40	310	(400-34)
CIRCLING	700-1½ 468 (500-1½)	800-2	568 (600-2)
S-PAR 32L**	330/16	100 (100-¼)	GS 3.0°



LEMOORE-SEVEN DEPARTURE (NLC7•NLC)

LEMOORE-SEVEN DEPARTURE (NLC7•NLC) (NLC7•NLC)
LEMOORE, CALIFORNIA

ATIS ★ 121.575 267.6
CLINC DEL
124.1 380.8
GND CON
121.65 305.2
LEMOORE TOWER ★
128.3 340.2
(Rwy 14L, 32L)
128.3 360.2
(Rwy 14R, 32R)
LEMOORE DEP CON
124.1 318.8 (N)
118.15 318.8 (S)

SHL-5067 [USN]

FALLON
Chan 82 NFL
L-9, H-3

FRIANT
115.6 FRA
Chan 103
L-3, L-9, H-3

PANOCHÉ
112.6 PXN
Chan 73
L-3, H-3

SALINAS
117.3 SNS
Chan 120
L-3, H-3

BIG SUR
114.0 BSR
Chan 87
L-3, H-4

* HUNTE
NLC R-243/65
* CORSE
NLC R-243/99

PASO ROBLES
114.3 PRB
Chan 90
L-3, L-7, H-4

Chart not to scale

* Local military use only for
Special Use Airspace entry.

EMERG SAFE ALT 100 NM 16,500

△ TIoga
OAL R-250/79

COADALE
117.7 OAL
Chan 124
L-9, H-3

* MIZRE
NLC R-022/49

* CETTA
NLC R-058/42

EOCIN
NLC R-041/19.8
15,000

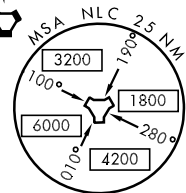
* KIOTE
NLC R-062/68

WADDE
NLC R-246/23.6
11,000

LEMOORE
Chan 80 NLC

SHAFTER
115.4 EHf
Chan 101
L-3, L-7, H-4

AVENAL
117.1 AVE
Chan 118
L-3, L-7, H-4



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 32L/32R: Climb to 2000 via heading 322°. Expect radar vectors to join assigned transition route.

AVENAL TRANSITION (NLC7.AVE): From over WADDE via AVE R-313 to AVENAL VORTAC. Thence as filed. Cross WADDE at or below 11,000.

BIG SUR TRANSITION (NLC7.BSR): From over WADDE climb on heading 248° to 11,000 or as assigned for vectors to intercept BSR R-068 to BIG SUR VORTAC. Thence as filed. Cross WADDE at or below 11,000.

COADALE TRANSITION (NLC7.OAL): From over EOCIN climb on heading 029° to 15,000 or as assigned for radar vectors to intercept OAL R-209 to COADALE VORTAC. Thence as filed. Cross EOCIN at 15,000.

(Continued on next page)

LEMOORE-SEVEN DEPARTURE (NLC7•NLC)

LEMOORE, CALIFORNIA

SW-2, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION
(Continued)

CORSE TRANSITION (NLC7.CORSE): From over WADDE fly heading 246° for vectors to intercept NLC R-243 to CORSE. Cross WADDE at or below 11,000.

FALLON TRANSITION (NLC7.NFL): From over EOCIN fly heading 041° for vectors to FALLON TACAN. Then as filed. Cross EOCIN at 15,000.

FRIANT TRANSITION (NLC7.FRA): From over EOCIN via FRA R-166 to FRIANT VORTAC. Thence as filed. Cross EOCIN at 15,000.

HUNTE TRANSITION (NLC7.HUNTE): From over WADDE fly heading 246° for vectors to intercept NLC R-243 to HUNTE. Cross WADDE at or below 11,000.

MIZRE TRANSITION (NLC7.MIZRE): from over EOCIN fly heading 041° for vectors to intercept NLC R-022 to MIZRE. Thence as filed. Cross EOCIN at 15,000.

PANOCHÉ TRANSITION (NLC7.PXN): From over WADDE via PXN R-133 to PANOCHÉ VORTAC. Thence as filed. Cross WADDE at or below 11,000.

PASO ROBLES TRANSITION (NLC7.PRБ): From over WADDE via PRB R-358 to PASO ROBLES VORTAC. Thence as filed. Cross WADDE at or below 11,000.

SALINAS TRANSITION (NLC7.SNS): From over WADDE climb on heading 275° to 11,000 or as assigned for vectors to intercept SNS R-095 to SALINAS VORTAC. Thence as filed. Cross WADDE at or below 11,000.

SHAFTER TRANSITION (NLC7.EHF): From over EOCIN via EHF R-324 to SHAFTER VORTAC. Thence as filed. Cross EOCIN at 15,000.

TIOGA TRANSITION (NLC7.TIOGA): From over EOCIN fly heading 041° for vectors to TIOGA. Thence as filed. Cross EOCIN at 15,000.

LOST COMMUNICATIONS: If no transmissions are received within 8 DME of NLC TACAN, climb to 4000, fly departure heading to intercept NLC TACAN 10 mile arc, arc to respective departure radial then via departure radial to assigned departure fix. Then via assigned transition or route. Once established on departure radial climb to filed altitude.

REEVES-ONE DEPARTURE (REVES1•NLC)

LEMOORE T-10 (REEVES FIELD) (RWY 14L/14R)
LEMOORE, CALIFORNIA

ATIS ★ 121.575 267.6
CLINC DEL
124.1 380.8
GND CON
121.65 305.2
LEMOORE TOWER ★
128.3 340.2
(Rwy 14L, 32L)
128.3 360.2
(Rwy 14R, 32R)
LEMOORE DEP CON
124.1 318.8 (N)
118.15 318.8 (S)

SHL-5067 [USN]

FALLON
Chan 82 NFL
L-9, H-3

△ TIOGA
OAL R-250/79

COADALE
117.7 OAL
Chan 124
L-9, H-3

FRIANT
115.6 FRA
Chan 103
L-3, L-9, H-3

* MIZRE
NLC R-022/49

PANOCHÉ
112.6 PXN
Chan 73
L-3, H-3

SALINAS
117.3 SNS
Chan 120
L-3, H-3

LEMOORE
Chan 80 NLC

* SWOOP
NLC R-077/67

BIG SUR
114.0 BSR
Chan 87
L-3, H-4

* OMEGA
NLC R-082/47

* HUNTE
NLC R-243/65
* CORSE
NLC R-243/99

PASO ROBLES
114.3 PRB
Chan 90
L-3, L-7, H-4

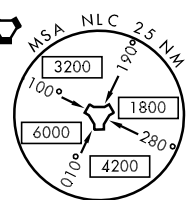
SHAFTER
115.4 EHf
Chan 101
L-3, L-7, H-4

AVENAL
117.1 AVE
Chan 118
L-3, L-7, H-4

Chart not to scale

* Local military use only for
Special Use Airspace entry.

EMERG SAFE ALT 100 NM 16,500



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb to 2000 via heading 142°. Expect radar vectors to join assigned transition route.

AVENAL TRANSITION (REVES1.AVE): From over CARRL via AVE R-313 to AVENAL VORTAC. Thence as filed. Cross CARRL at or below 11,000.

BIG SUR TRANSITION (REVES1.BSR): From over CARRL climb on heading 256° to 11,000 or as assigned for vectors to intercept BSR R-076 to BIG SUR VORTAC. Thence as filed. Cross CARRL at or below 11,000.

(Continued on next page)

DEPARTURE ROUTE DESCRIPTION
(Continued)

CORSE TRANSITION (REVES1.CORSE): From over CARRL fly heading 270° for vectors to intercept NLC R-243 to CORSE. Cross CARRL at or below 11,000.

HUNTE TRANSITION (REVES1.HUNTE): From over CARRL fly heading 270° for vectors to intercept NLC R-243 to HUNTE. Cross CARRL at or below 11,000.

PANOCHÉ TRANSITION (REVES1.PXN): From over CARRL via PXN R-133 to PANOCHÉ VORTAC. Thence as filed. Cross CARRL at or below 11,000.

PASO ROBLES TRANSITION (REVES1.PR8): From over CARRL via PRB R-010 to PASO ROBLES VORTAC. Thence as filed. Cross CARRL at or below 11,000.

SALINAS TRANSITION (REVES1.SNS): From over CARRL climb on heading 280° to 11,000 or as assigned for vectors to intercept SNS R-100 to SALINAS VORTAC. Thence as filed. Cross CARRL at or below 11,000.

LOST COMMUNICATIONS: If no transmissions are received within 8 DME of NLC TACAN, climb to 4000, fly departure heading to intercept NLC TACAN 10 mile arc, thence...

West bound Departures: Arc west of NLC TACAN via 10 mile arc to NLC R-223 to CARRL, then via assigned transition or route. Once established on departure radial climb to filed altitude. Cross CARRL at or below 11,000.

East bound Departures: Arc east of NLC TACAN via 10 mile arc to NLC R-086, then via NLC R-086 to BUMPI, then via assigned route. Once established on NLC R-086 climb to filed altitude. Cross BUMPI at 15,000.

SW-2, 14 JAN 2010 to 11 FEB 2010

APCH CRS **142°**
 Rwy Idg **13,500**
 TDZE **222**
 Arpt Elev **232**

AL-5067 [USN]

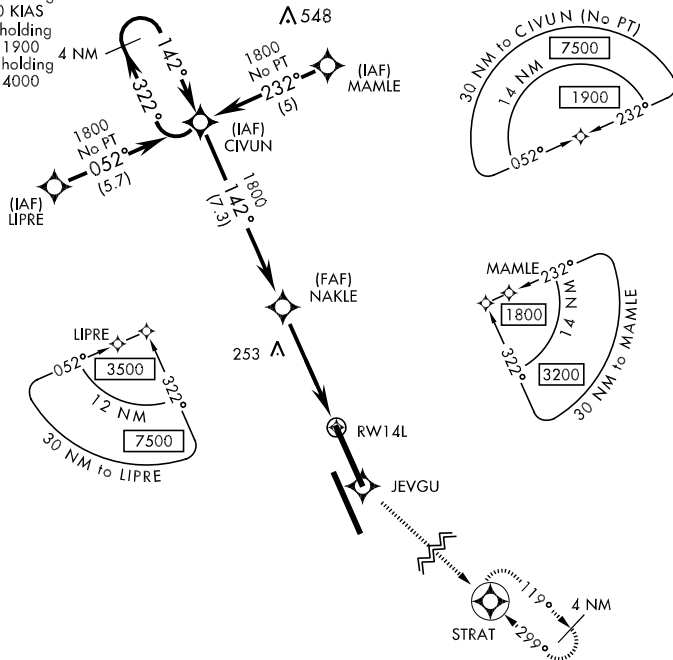
LEMOORE NAS (REEVES FLD) (KNLC)

Baro VNAV NA below - 15.46°C (4.17°F).
 DME/DME RNP 0.3 NA

MISSED APPROACH: Climb to 2000 direct JEVGU,
 then via track 119° to STRAT and hold.

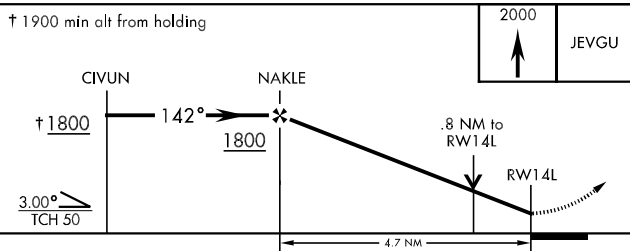
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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Max holding
230 KIAS
Min holding
alt 1900
Max holding
alt 4000

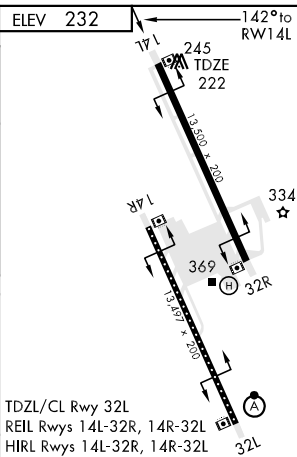


EMERG SAFE ALT 100 NM 16,500

† 1900 min alt from holding



CATEGORY	A	B	C	D
LNAY MDA	520-1	298	(300-1)	
LNAY/VNAV DA	520-1	298	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14L	322-½	100	(100-½)	GS 3.0°



APCH CRS **142°** Rwy Idg **13,497**
 TDZE **231**
 Arpt Elev **232**

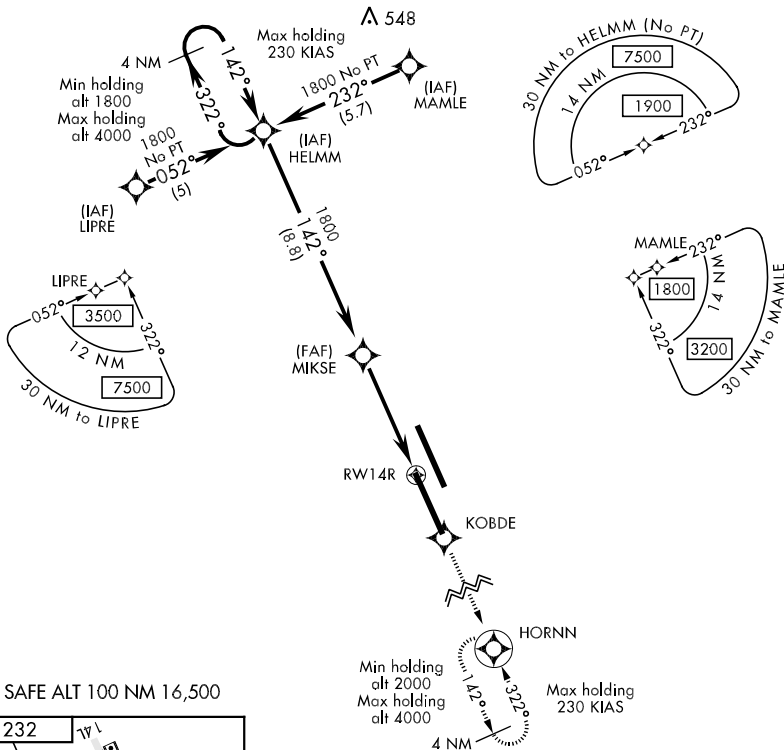
AL-5067 [USN]

LEMOORE NAS (REEVES FLD) (KNLC)

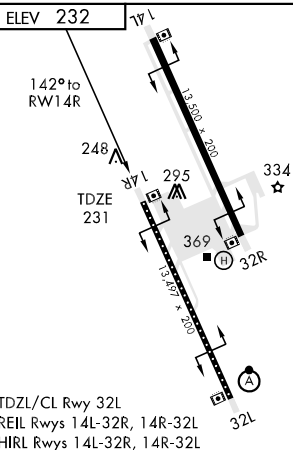
Baro VNAV NA below - 15.46°C (4.17°F).
 DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 2000 direct KOBDE,
 then via track 142° to HORNN and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMER SAFE ALT 100 NM 16,500



APCH CRS **322°** Rwy Idg **13,497**
 TDZE **230**
 Arpt Elev **232**

AL-5067 [USN]

LEMOORE NAS (REEVES FLD) (KNLC)

▼ * When ALS inop, increase CAT ABCD RVR to 50 and vis to 1 mile.

** When ALS inop, increase CAT ABCD RVR to 24 and vis to ½ mile.

ALSF-2

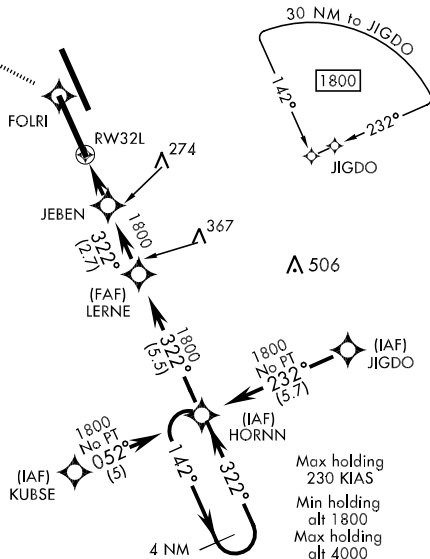
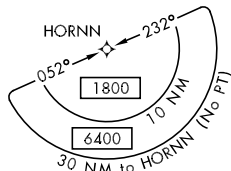
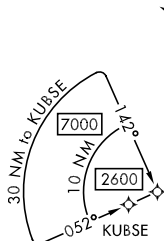


MISSED APPROACH: Climb to 3200
 direct FOLRI, then via track 281° to
 CREEZ and hold.

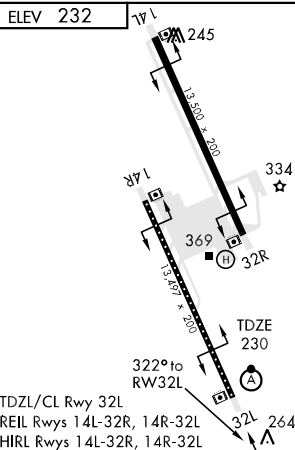
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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Baro VNAV NA below - 15.46°C (4.17°F).

DME/DME RNP-0.3 NA



EMER SAFE ALT 100 NM 16,500



ELEV 232	3200	FOLRI	JEBEN	LERNE	HORNN	1800	322°	1800	3.00°	TCH 50
			.75 from RWY 32L							
			2 NM	2.7 NM						
CATEGORY	A	B	C	D						
LNAV MDA *	520/24	290	(300-½)	520/40	290	(300-¾)				
LNAV/VNAV DA *	520/24	290	(300-½)	520/40	290	(300-¾)				
CIRCLING	680-1	700-1	700-1½	800-2						
	448 (500-1)	468 (500-1)	468 (500-1½)	568 (600-2)						
S-PAR 32L **	330/16				100	(100-¼)	GS 3.00°			

TACAN NLC Chan 80	APCH CRS 164°	Rwy Idg 13,500 TDZE 222 Arpt Elev 232
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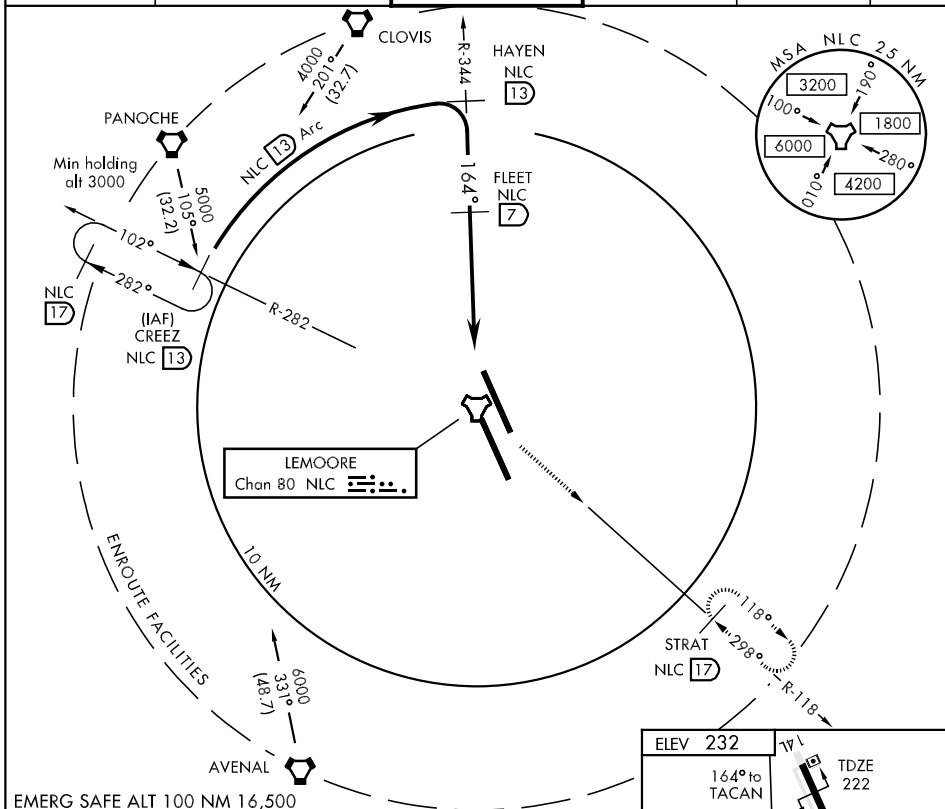
AL-5067 [USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

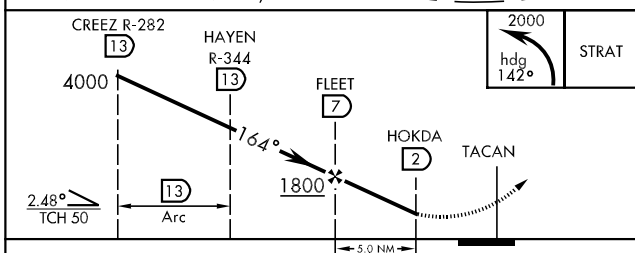


MISSED APPROACH: Climbing left turn to 2000 via heading 142°, intercept R-118 to STRAT and hold.

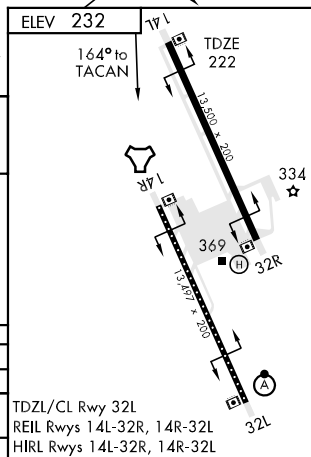
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-14L	520-1	298	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14L	322-½	100	(100-½)	GS 3.0°

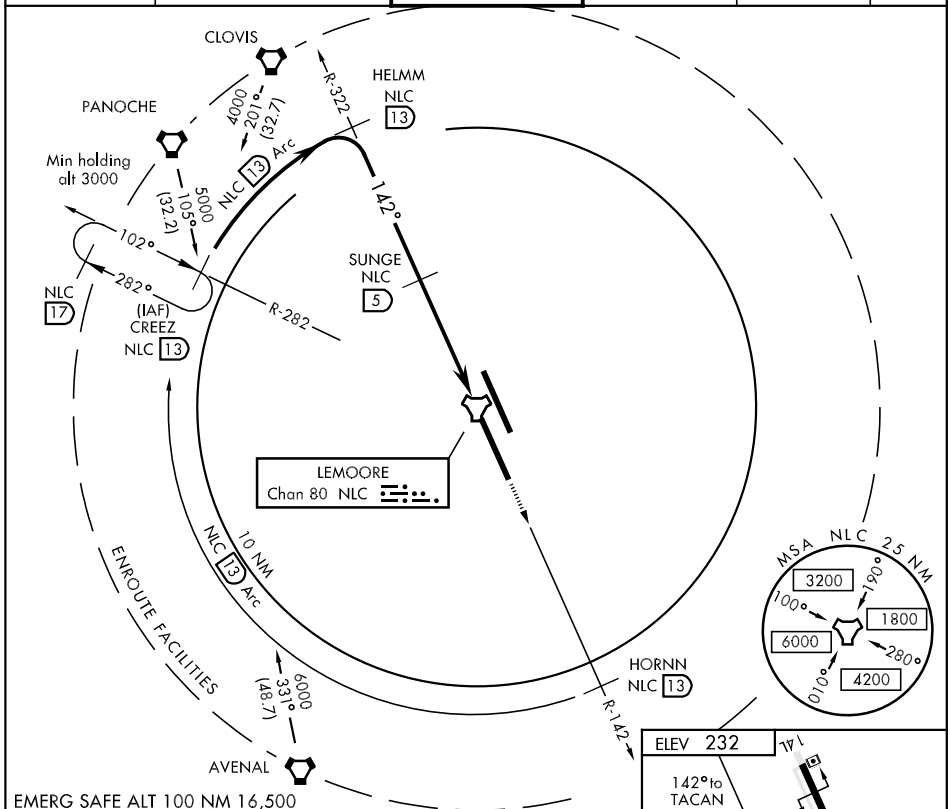


TACAN NLC Chan 80	APCH CRS 142°	Rwy Idg 13,497 TDZE 231 Arpt Elev 232	AL-5067 [USN]	TACAN RWY 14R LEMOORE NAS (REEVES FIELD) (KNLC)
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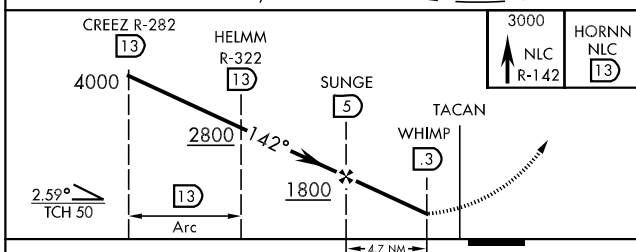


MISSED APPROACH: Climb to 3000 via R-142 to HORNN, then arc SW of NLC TACAN via the 13 DME Arc to CREEZ and hold.

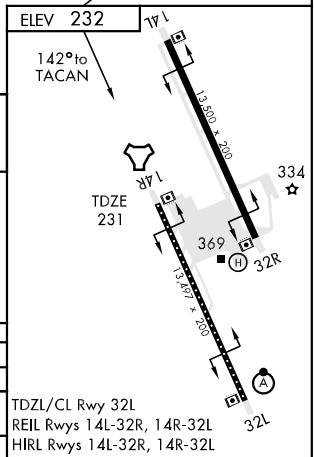
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-14R	520-1	289	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14R	331-½	100	(100-½)	GS 3.0°



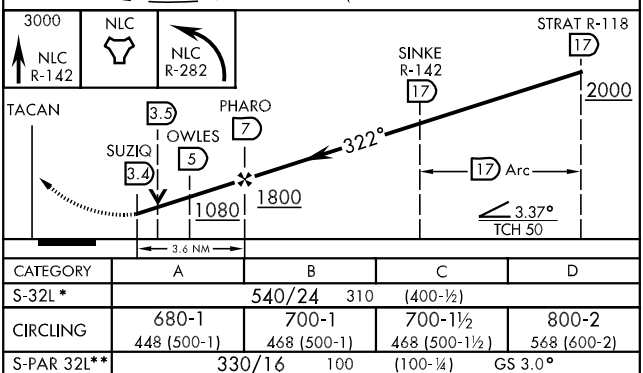
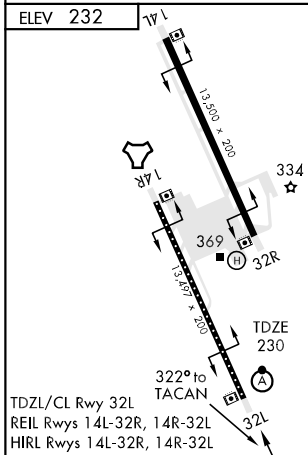
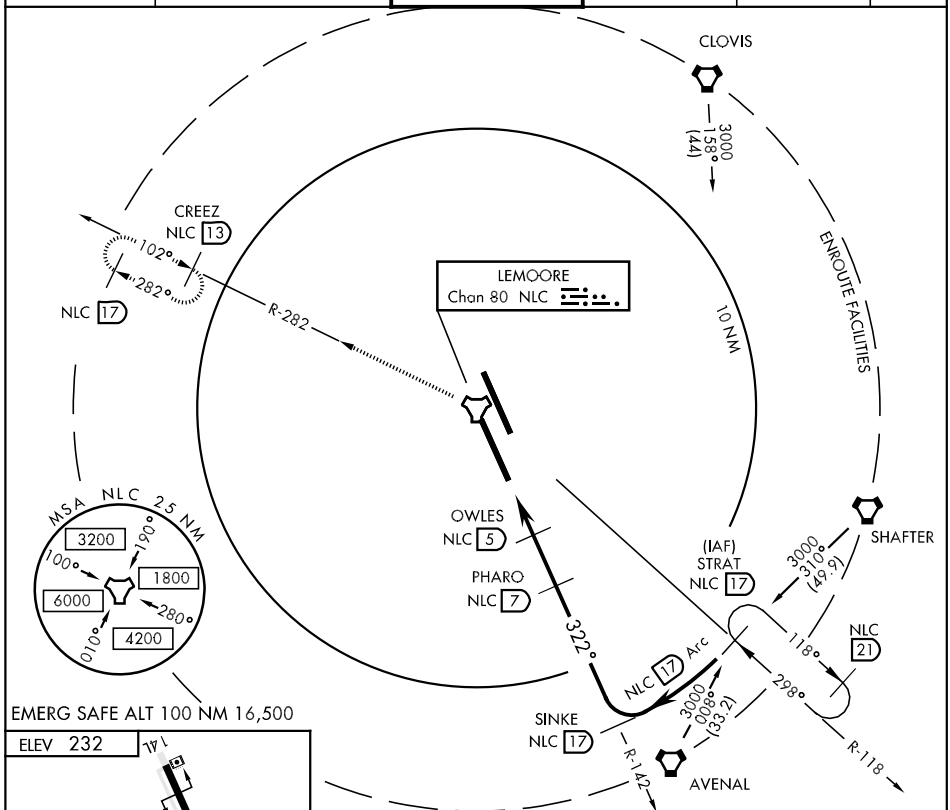
TACAN NLC Chan 80	APCH CRS 322°	Rwy Idg 13,497 TDZE 230 Arpt Elev 232	AL-5067 [USN]	LEMOORE NAS (REEVES FIELD) (KNLC)
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T * When ALS inop, increase CAT ABCD RVR to 50 and vis to 1 mile.
 ** When ALS inop, increase CAT ABCD RVR to 24 and vis to ½ mile.



MISSED APPROACH: Climb to 3000 via R-142 to NLC TACAN, then via R-282 to CREEZ and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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LEMOORE, CALIFORNIA

36°20'N-119°57'W

LEMOORE NAS (REEVES FIELD) (KNLC)

SW-2, 14 JAN 2010 to 11 FEB 2010

TABLE 1. SUMMARY OF STUDY DESIGN

APP CRS 148°	Rwy Idg TDZE Apt Elev	6001 121 121
------------------------	-----------------------------	---

GPS RWY 15

LINCOLN RGNL/KARL HARDER FIELD (LHM)

T For inoperative MALSR increase S-15 A-C
A NA visibilities to 1, Category D to 1½.

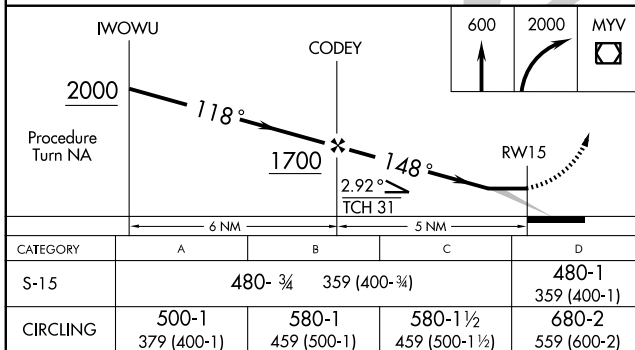
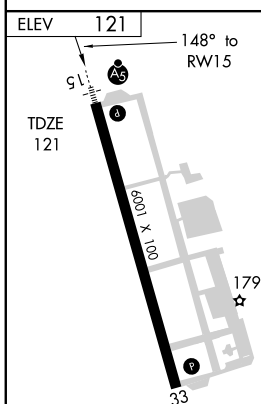
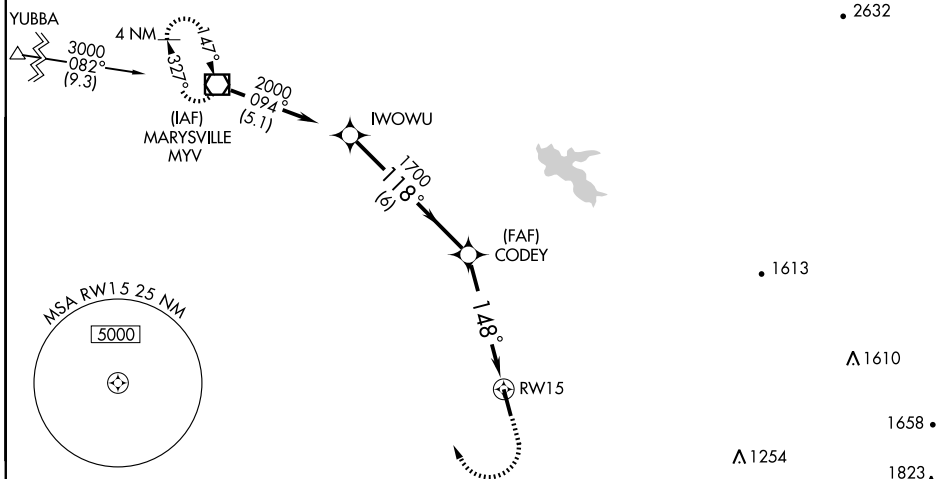


MISSED APPROACH: Climb to 600 then climbing right turn to 2000, direct MYV VOR/DME and hold.

AWOS-3
124.25

NORCAL APP CON
125.4 259.1

UNICOM
123.0 (CTAF) L



APP CRS	Rwy Idg	6001
328°	TDZE	121
	Apt Elev	121

GPS RWY 33

LINCOLN RGNL/ KARL HARDER FIELD (LHM)



A NA

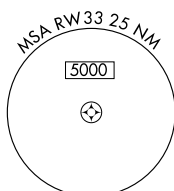
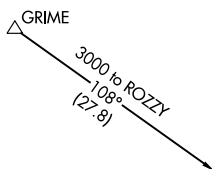
MISSED APPROACH: Climb to 800 then climbing left turn to 2000 direct to MYV VOR/DME and hold.

AWOS-3
124.25

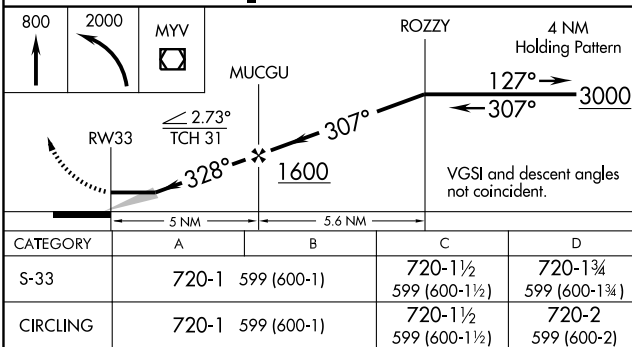
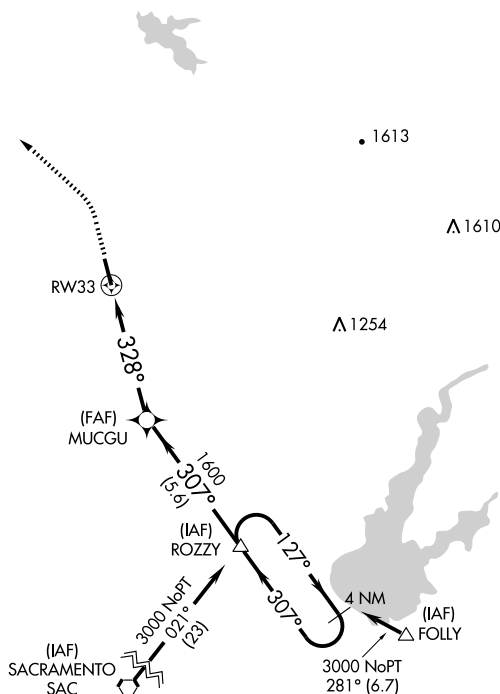
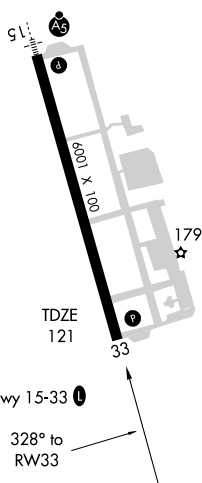
NORCAL APP CON
125.4 259.1

UNICOM
123.0 (CTAF) **L**

2632



ELEV 121



▼

▲NA

If local altimeter setting not received, use Beale AFB altimeter setting and increase all DH/MDAs 40 feet. When neither is received, procedure not authorized.
For inoperative MALS, increase S-LOC 15 Cat. D visibility to 1 mile.

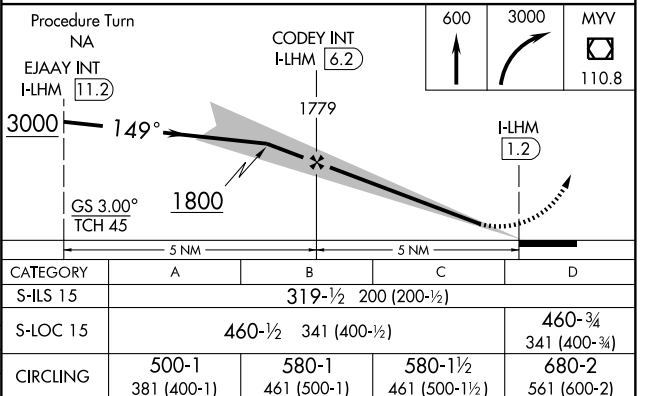
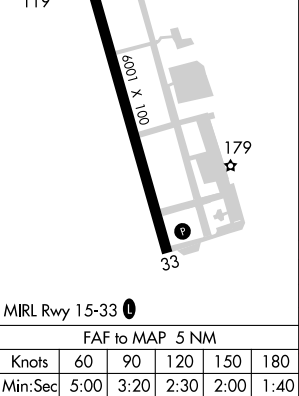
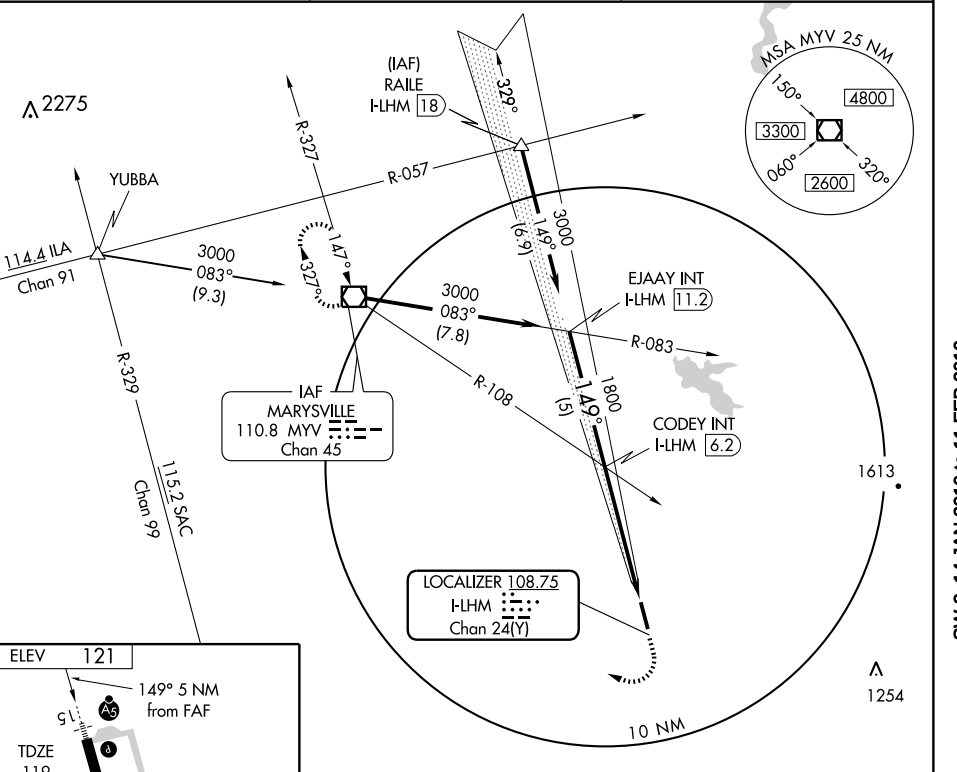
MALS

AS

|||||

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct MYV VOR/DME and hold.

AWOS-3 124.25	NORCAL APP CON 125.4 259.1	UNICOM 123.0 (CTAF) 0
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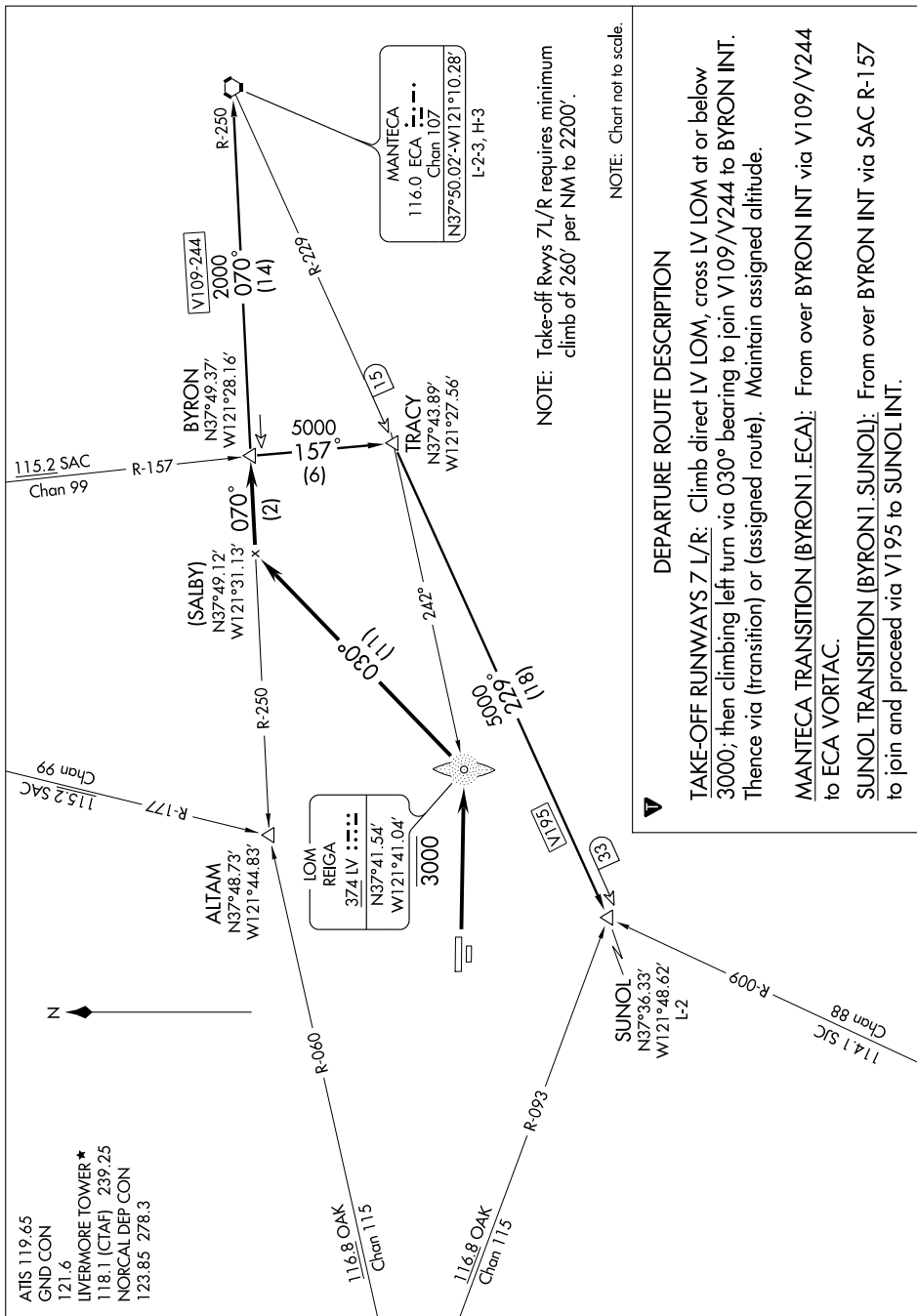
SW-2, 14 JAN 2010 to 11 FEB 2010



BYRON ONE DEPARTURE

SL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA



LOC I-LVK	APP CRS	Rwy Idg	5253
110.5	255°	TDZE	397
		Apt Elev	397

ILS RWY 25R

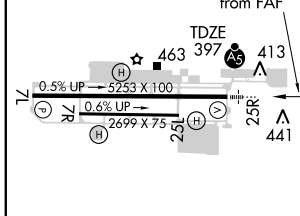
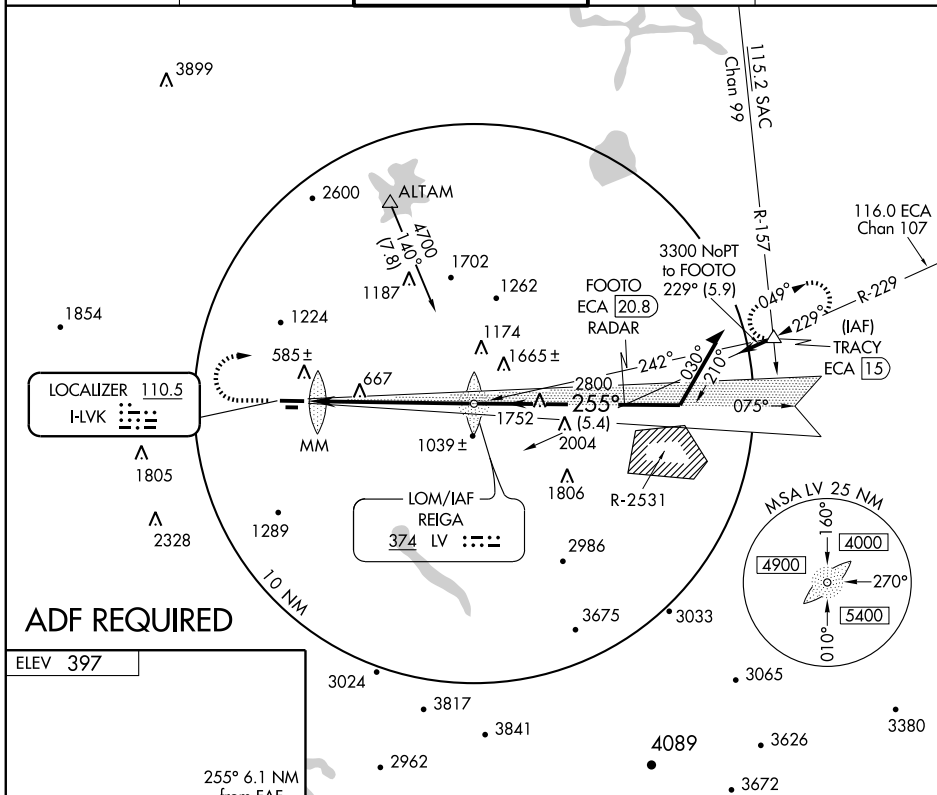
LIVERMORE MUNI (LVK)

- V** Circling NA north of Rwy 7L-25R.
A Autopilot coupled approaches NA below 1700.



MISSED APPROACH: Climb to 1100, then climbing right turn to 3000 direct REIGA LOM, then via REIGA LOM 062° bearing to TRACY Int and hold.

ATIS 119.65	NORCAL APP CON 123.85 278.3	LIVERMORE TOWER ★ 118.1 (CTAF) 239.25	GND CON 121.6	UNICOM 122.95
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MIRL Rwy 7L-25R

FAF to MAP 6.1 NM					
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

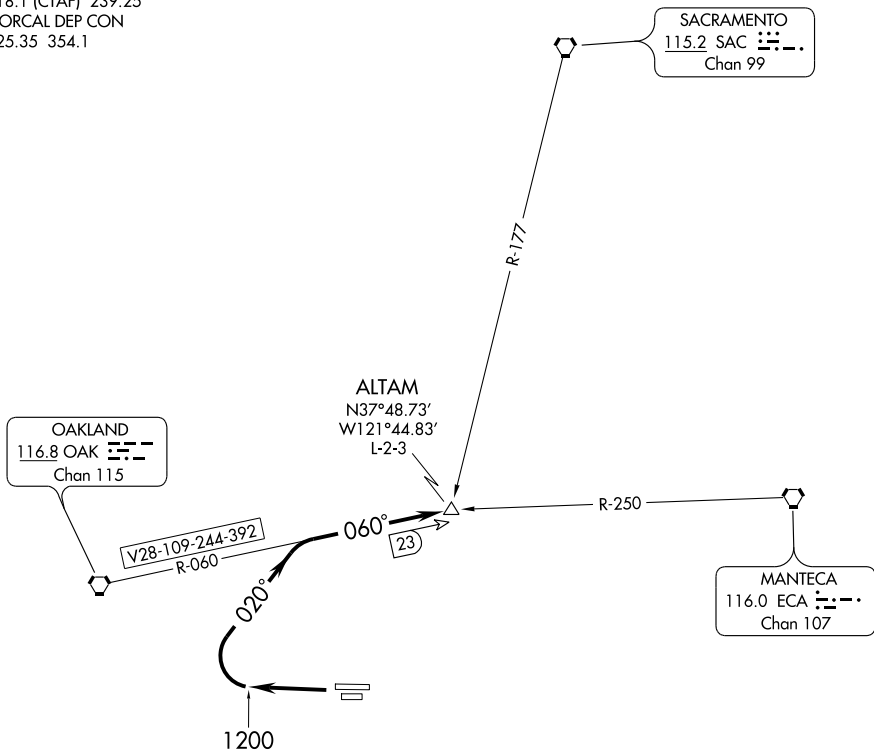
CATEGORY	A	B	C	D
S-ILS 25R	597-1/2 200 (200-1/2)			
S-LOC 25R	940-1/2 543 (600-1/2)		940-1 543 (600-1)	940-1 1/4 543 (600-1 1/4)
CIRCLING	940-1 543 (600-1)		940-1 1/2 543 (600-1 1/2)	1100-2 1/4 703 (800-2 1/4)

LIVERMORE ONE DEPARTURE

SL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA

ATIS 119.65
GND CON
121.6
LIVERMORE TOWER ★
118.1 (CTAF) 239.25
NORCAL DEP CON
125.35 354.1



TAKE-OFF MINIMUMS: 2300-2 or standard with a minimum climb of 375' per NM to 3100'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 25 L/R: Climb runway heading to 1200, then climbing right turn heading 020° and OAK R-060 to ALTAM INT. Maintain assigned altitude.

RNAV (GPS) RWY 25R
LIVERMORE MUNI (LVK)

MISSED APPROACH: Climb to 4000 direct DRNAY and via track 293° to FESIK.

Figure 1-1: Example of a 4-segment RNAV approach chart. The chart shows a 4-segment RNAV approach for RW25R. The first segment is a 0.5% climb gradient (UP) from 5253 X 100 to 5253 X 100. The second segment is a 0.6% climb gradient (UP) from 5253 X 100 to 5253 X 100. The third segment is a 0.6% climb gradient (UP) from 5253 X 100 to 5253 X 100. The fourth segment is a 0.6% climb gradient (UP) from 5253 X 100 to 5253 X 100. The chart includes various symbols for navigation aids, terrain, and obstacles. The chart is titled 'MIRL Rwy 7L-25R'.

RNAV (GPS)-B
LODI (103)

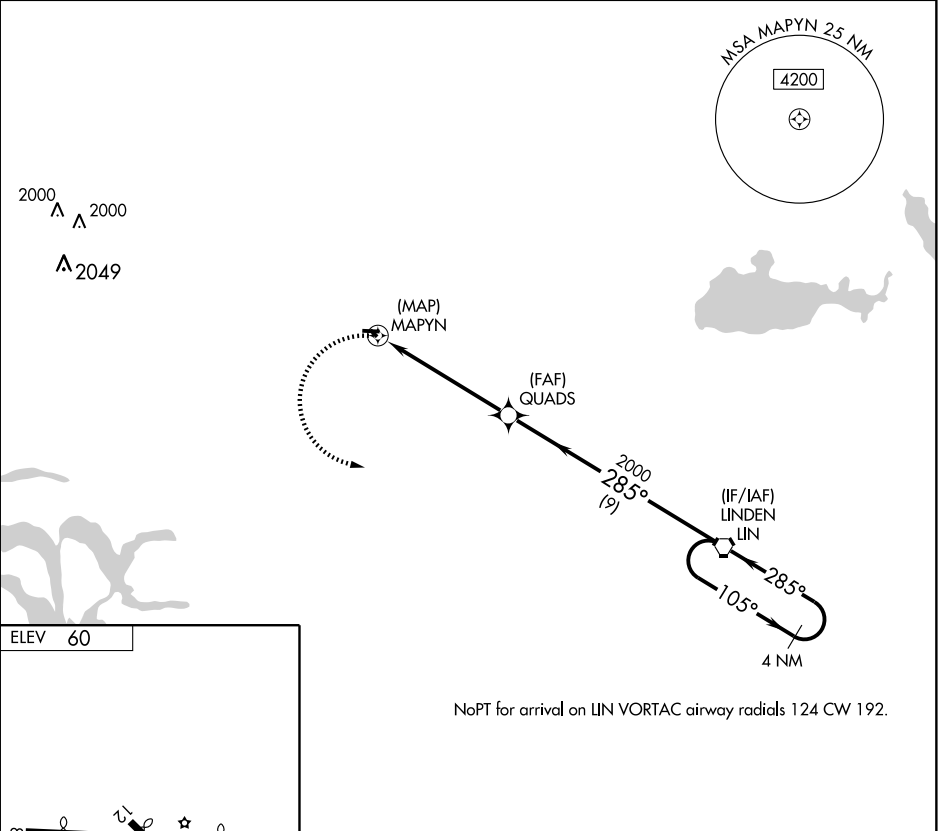
APP CRS	Rwy Idg	N/A
285°	TDZE	N/A
	Apt Elev	60

NA DME/DME RNP-0.3 NA.
Use Stockton altimeter setting, when not received, use Sacramento Init altimeter setting and increase all MDA 40 feet.

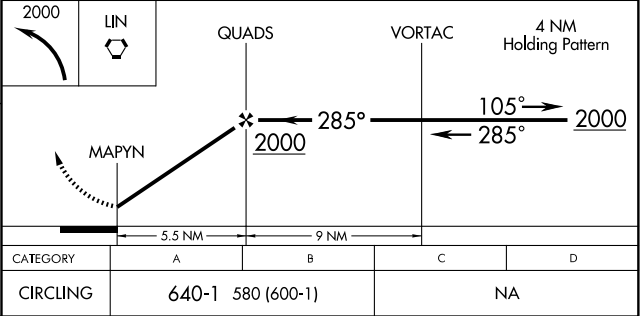
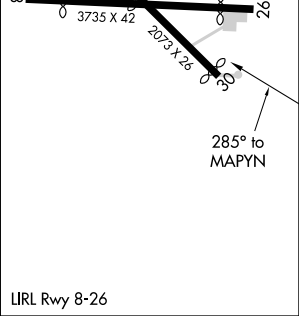
MISSED APPROACH: Climbing left turn to 2000 direct LIN VORTAC and hold.

NORCAL APP CON
125.1 363.2

CTAF
122.9



NoPT for arrival on LIN VORTAC airway radials 124 CW 192.

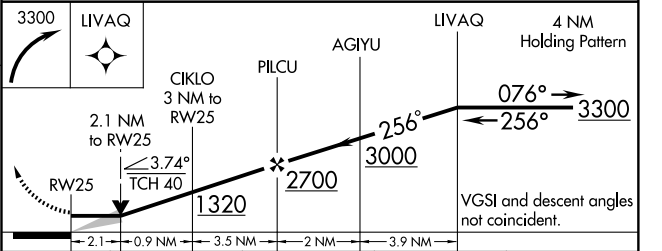
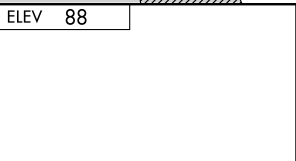
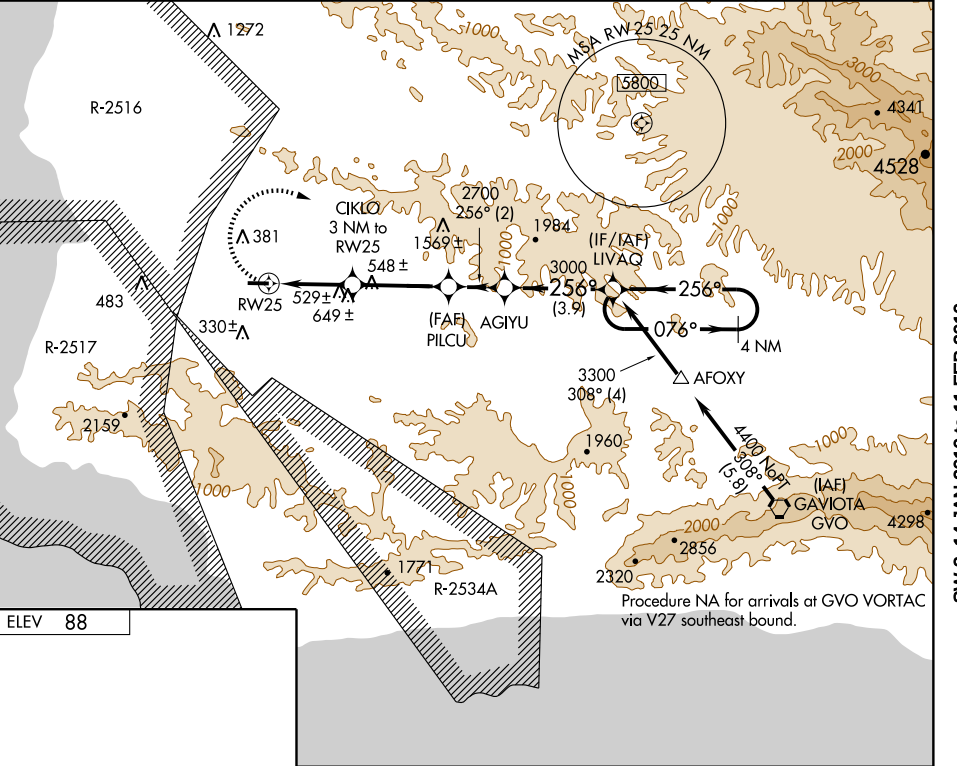


APP CRS	Rwy Idg	4600
256°	TDZE	88
	Apt Elev	88

⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Santa Maria Public/Captain G. Allan Hancock Field altimeter setting and increase all MDA 60 feet, and increase visibility LNAV and circling Cat B ¼ mile. VDP NA when using Santa Maria Public/Captain G. Allan Hancock Field altimeter setting.

MISSED APPROACH: Climbing right turn to 3300 direct LIVAQ and hold.

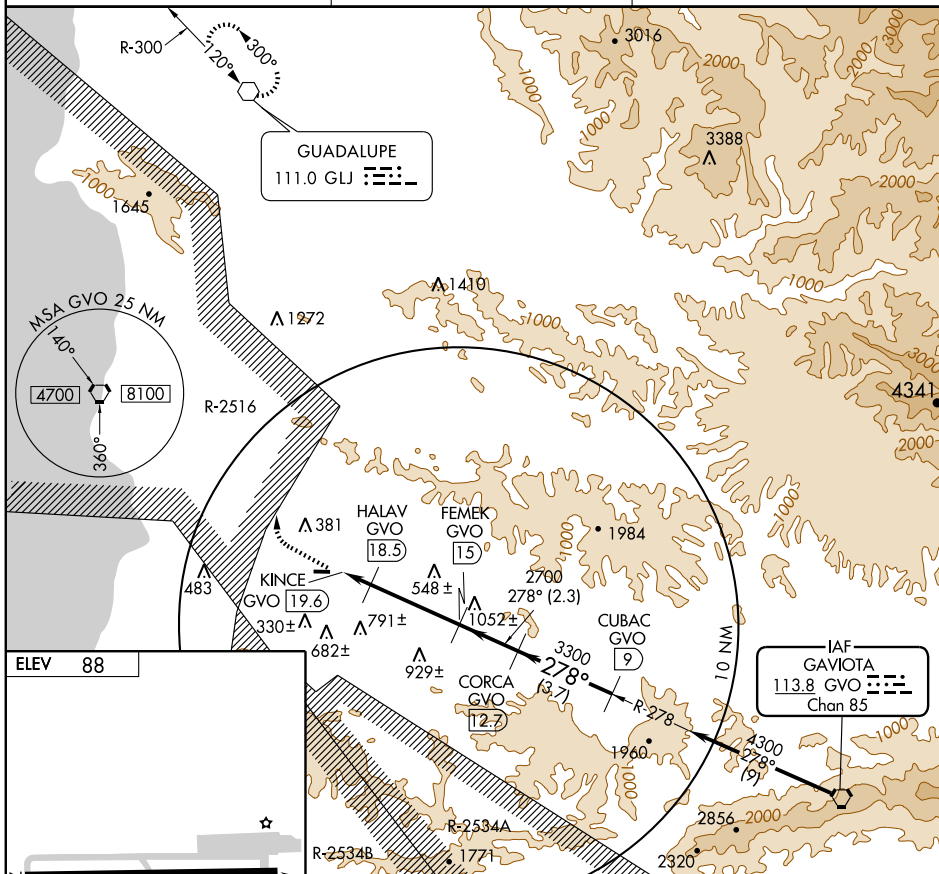
AWOS-3 133.875	SANTA BARBARA APP CON* 124.15 327.8	UNICOM 122.7 (CTAF) 0
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REIL Rwy 25 0				
MIRL Rwy 7-25 0				
CATEGORY	A	B	C	D
LNAV MDA	780-1	692 (700-1)	NA	NA
CIRCLING	780-1	692 (700-1)	NA	NA

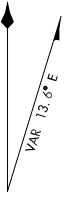
SW-3, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climb to 1400, then climbing right turn to 3500 direct GLJ VOR and hold.

UNICOM
122.7 (CTAF) 

CATEGORY	A	B	C	D
CIRCLING	920-1 832 (900-1)	920-1¼ 832 (900-1¼)		NA

ATIS
133.125 257.975
VANDENBERG TOWER ★
124.95 326.2
GND CON
121.75 275.8
CLNC DEL
121.75 275.8



AUGUST 2007
ANNUAL RATE OF CHANGE
0.1°W

ELEV
238
1000 x 200
200 RADIUS

34° 45'N

0.9% UP
122.9°

34° 44'N

RWY 12-30
PCN 42 R/C/W/T

PRIMARY
HAZARDOUS
CARGO AREA

CONTROL
TOWER
440

AM OPS
FIRE
STATION

PASSENGER
TERMINAL

ELEV
340

ELEV
350

ALTERNATE
HAZARDOUS
CARGO AREA

15,000 x 200

302.9°

FIELD
ELEV
369

SHUTTLE TOW ROUTE
NOT A TAXIWAY

1000 x 200

34° 43'N

120° 36'W

120° 35'W

120° 34'W

SW-3, 14 JAN 2010 to 11 FEB 2010

GAVIOTA ONE DEPARTURE (GVO1.GVO)

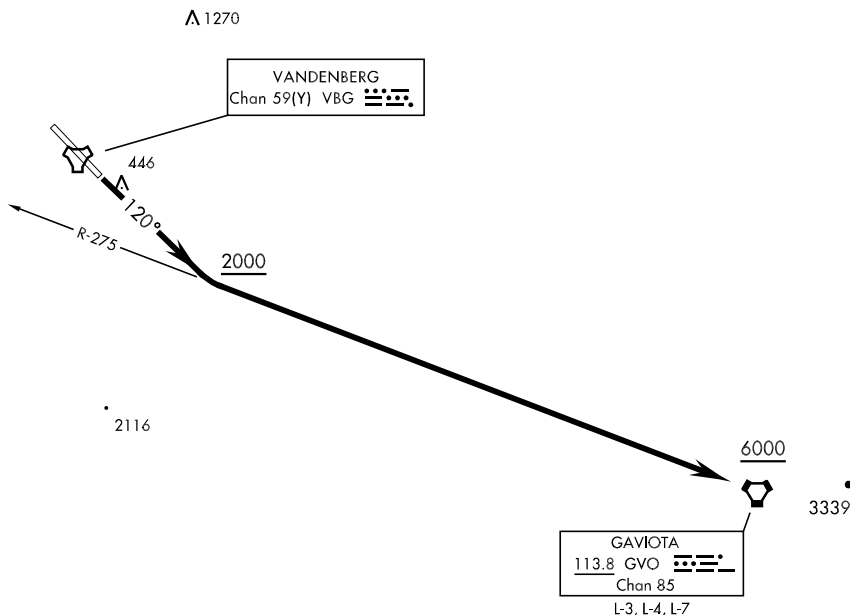
SL-770 [USAF]

LOMPOC, CALIFORNIA

ATIS
133.125 257.975
GND CON
121.75 275.8
CLNC DEL
121.75 275.8
VANDENBERG TOWER
124.95 326.2
SANTA BARBARA DEP CON
124.15 327.8

Rwy	Knots	60	120	180	240
12	V/V(fpm)	280	560	840	1120

Minimum Climb Rate to 2000.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 12: Cross DER at or above 35' AGL/404' MSL, climb on track 120° to 2000 then turn left and intercept the GVO VORTAC R-275 inbound. Cross GVO at or above 6000. Expect vectors to first filed fix/route prior to GVO.

LOC I-BVD <u>110.1</u>	APCH CRS 123°	Rwy Ldg 15,000 TDZE 267 Arpt Elev 369
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JAL-770 [USAF]

VANDENBERG AFB (KVBG)

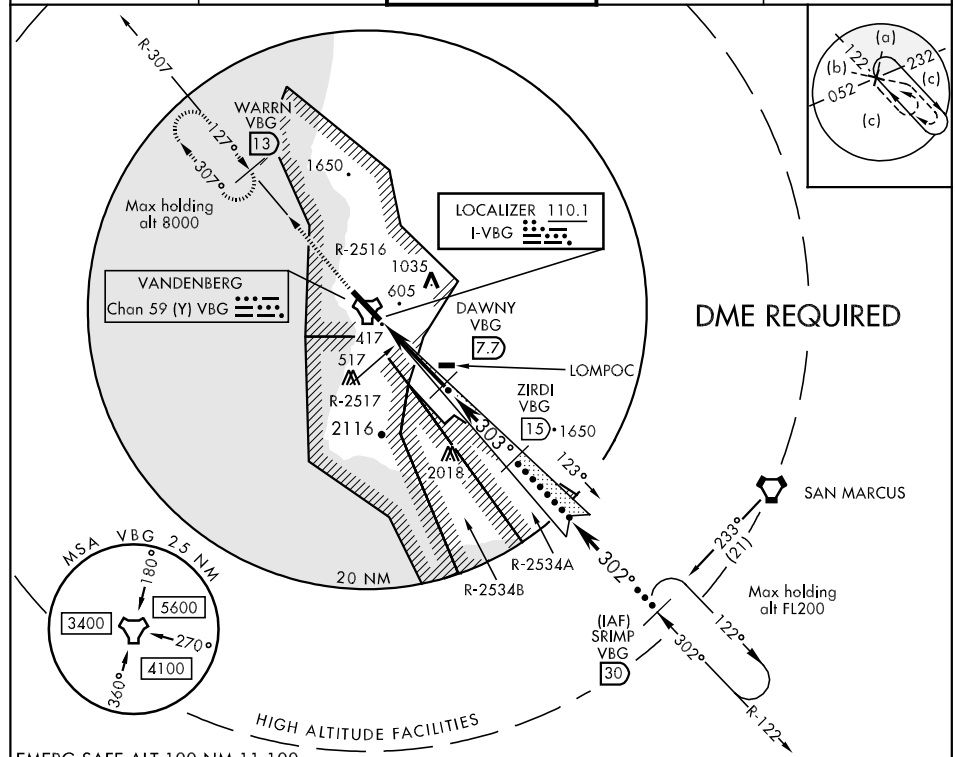
T * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ mile, CAT DE vis to $1\frac{1}{2}$ mile.

ALSF-2

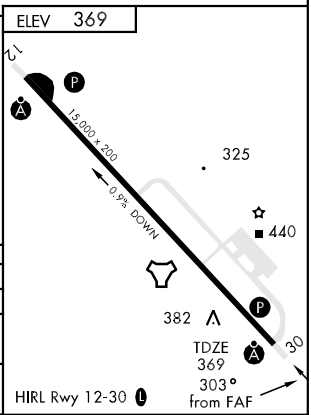
MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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LOC I-VBG 110.1	APCH CRS 303°	Rwy Idg 15,000 TDZE 369 Arpt Elev 369	JAL-770 [USAF]	VANDENBERG AFB (KVBG)
▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles, CAT E vis to 2 miles.			ALS-2 	MISSED APPROACH: Climb out VBG TACAN R-307 to WARRN and hold. Continue climb in hold maintain 4000.
ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.950 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8



4000 VBG R-307	WARRN VBG 13	DAWNY 7.7	ZIRDI 15	SRIMP R-122 30	ELEV 369
TACAN	FABUR 1.5	2.6	2600	4800	FL180
0.5 NM	6.2 NM				
CATEGORY	C	D	E		
S-ILS 30 *	569/24	200 (200- $\frac{1}{2}$)			
S-LOC/DME 30 **	940/50 571 (600-1)	940/60 571 (600- $1\frac{1}{4}$)	940- $1\frac{1}{2}$ 571 (600- $1\frac{1}{2}$)		
CIRCLING	1020- $1\frac{3}{4}$ 651 (700- $1\frac{3}{4}$)	1040- $2\frac{1}{4}$ 671 (700- $2\frac{1}{4}$)	1540-3 1171 (1200-3)		



TACAN VBG Chan 59(Y)	APCH CRS 127°	Rwy Idg 15,000 TDZE 267 Arpt Elev 369
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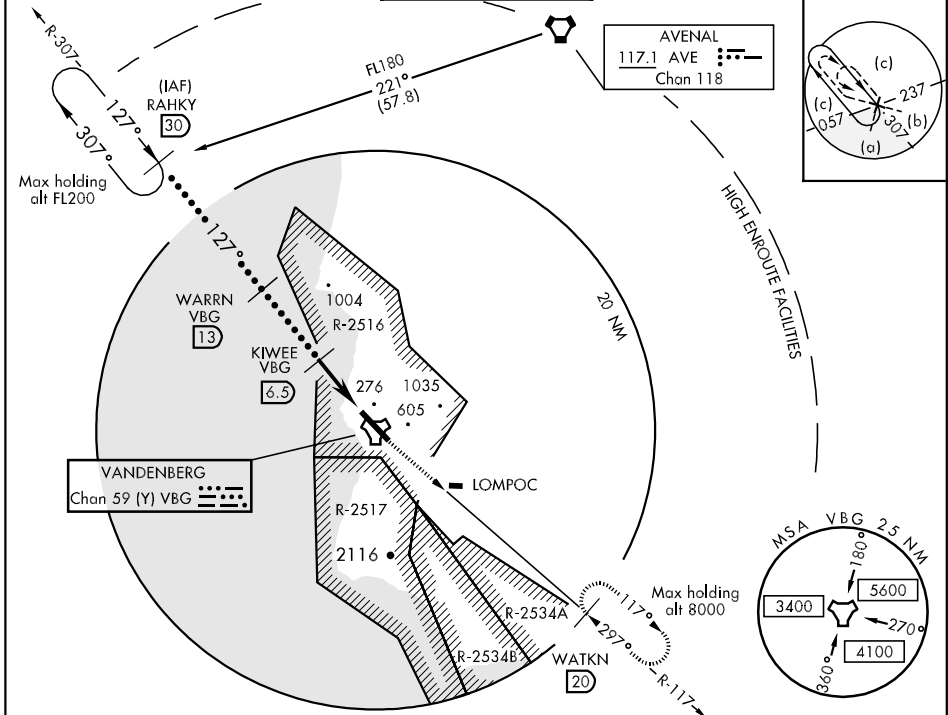
JAL-770 [USAF]

VANDENBERG AFB (KVBG)

✦ When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles, CAT DE increase vis to 1½ miles.

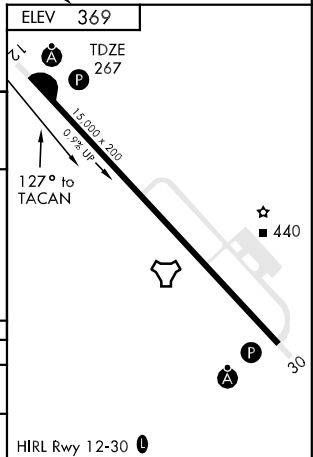
MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100

	RAHKY R-307 30	WARRN 13	KIWEE 6.5	DOYEB 2.8	TACAN 2
	FL180	127°	3000	1900	
	3.00° TCH 72				
CATEGORY	C	D	E		
S-12 *	740/40 473 (400-¾)	740/50 473 (400-1)	740/60 473 (400-1¼)		
CIRCLING	1020-1¾ 651 (700-1¾)	1040-2 ¼ 671 (700-2¼)	1540-3 1171 (1200-3)		



SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN VBG Chan 59(Y)	APCH CRS 297°	Rwy Idg 15,000 TDZE 369 Arpt Elev 369
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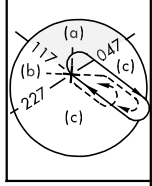
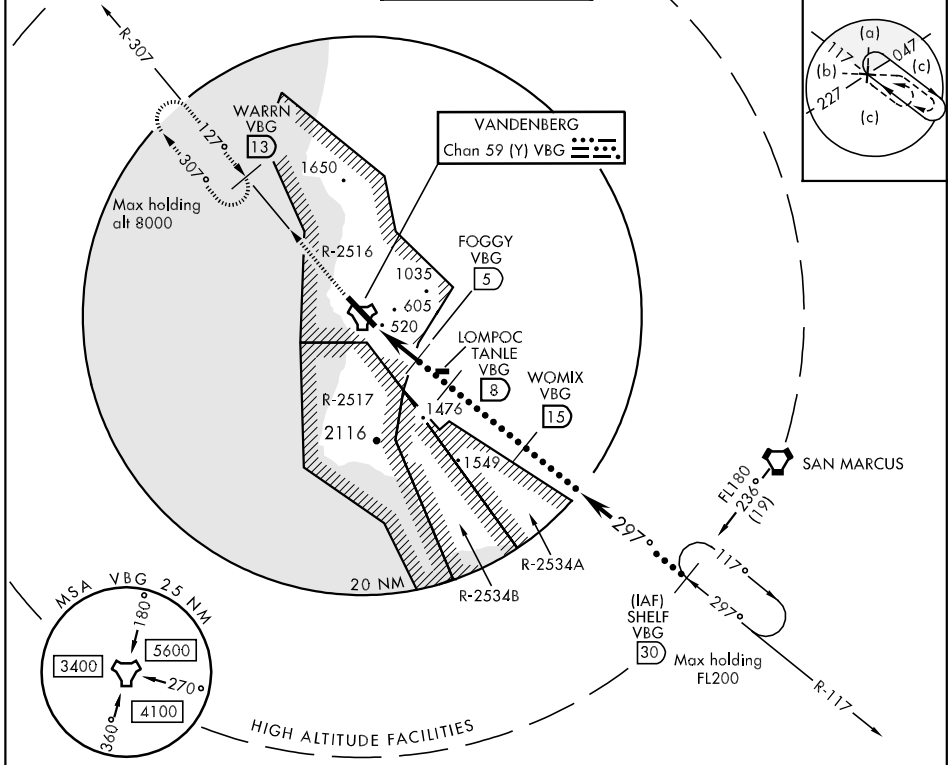
JAL-770 [USAF]

VANDENBERG AFB (KVBG)

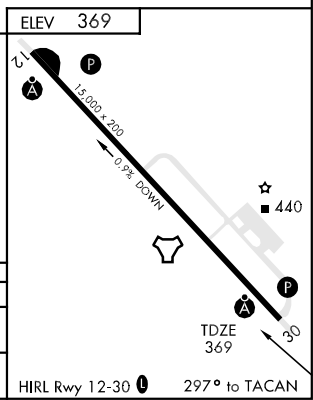
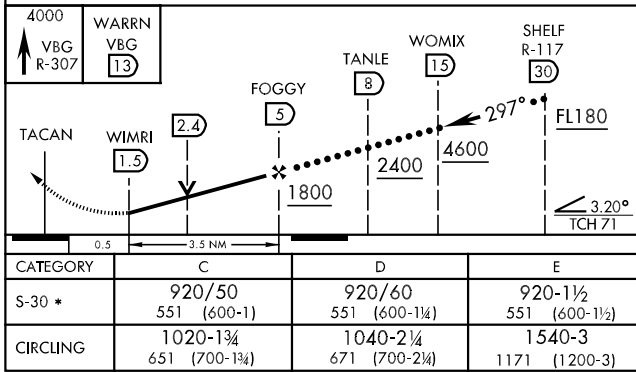
▽ * When ALS inop, increase CAT C vis to 1½ miles, CAT D vis to 1¾ miles, and CAT E vis to 2 miles.

ALSF-2
MISSED APPROACH: Climb out VBG TACAN R-307 to WARRN and hold. Continue climb in hold maintain 4000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100



SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-BVD 110.1	APCH CRS 123°	Rwy Idg 15,000 TDZE 267 Arprt Elev 369
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AL-770 [USAF]

VANDENBERG AFB (KVBG)

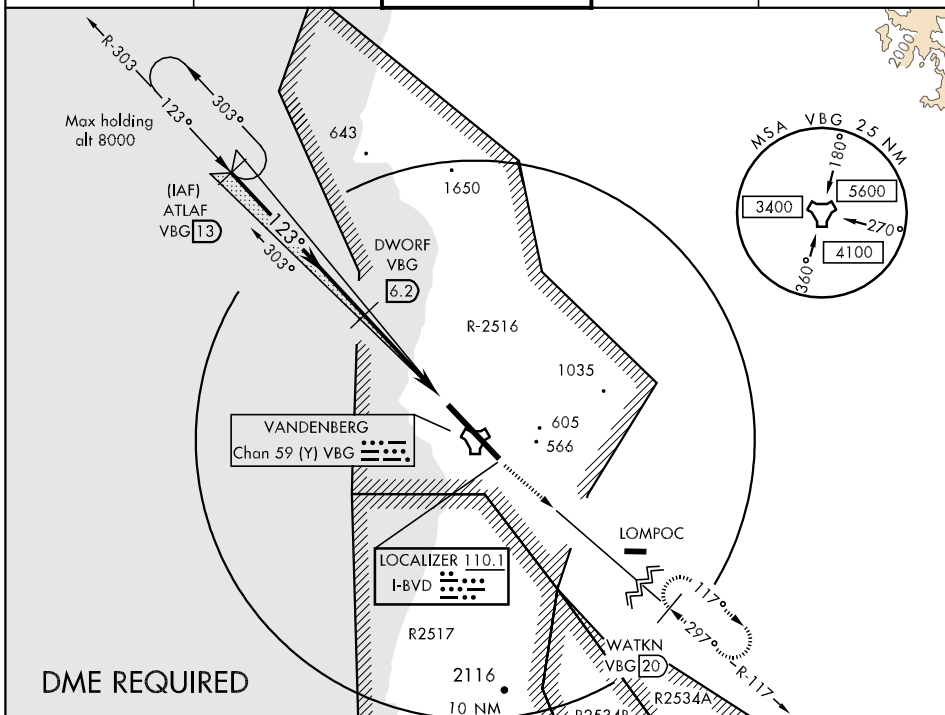
▼ *When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
 **When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{2}$ mile, CAT DE vis to $1\frac{1}{2}$.

ALSF-2

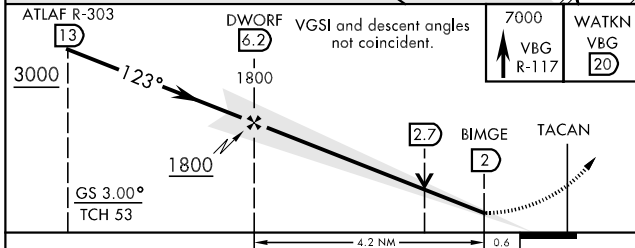


MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

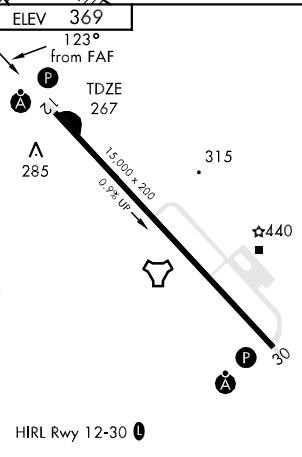
ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.950 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100



CATEGORY	A	B	C	D	E
S-ILS 12 *	467/24		200	(100- $\frac{1}{2}$)	
S-LOC/ DME 12 **	700/24	433 (400- $\frac{1}{2}$)	700/40 433 (400- $\frac{3}{4}$)	700/50	433 (400-1)
CIRCLING	980-1 611 (700-1)	1000-1 631 (700-1)	1020-1 $\frac{3}{4}$ 651 (700-1 $\frac{3}{4}$)	1040-2 $\frac{1}{4}$ 671 (700-2 $\frac{1}{4}$)	1540-3 1171 (1200-3)



LOC I-VBG 110.1	APCH CRS 303°	Rwy ldg 15,000 TDZE 369 Arpt Elev 369
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AL-770 [USAF]

VANDENBERG AFB (KVBG)

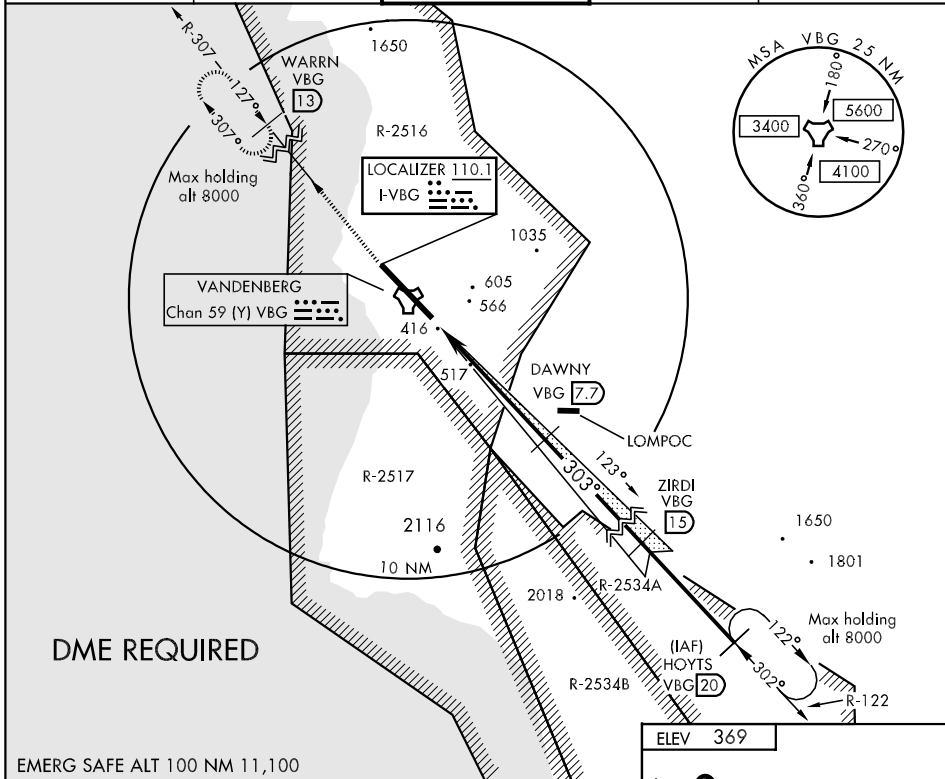
▼ * When ALS inop, increase CAT ABCDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
 CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles, CAT E vis to 2 miles.

ALS-F-2



MISSED APPROACH: Climb out VBG
 TACAN R-307 to WARRN and hold.
 Continue climb in hold maintain 4000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100

4000

VBG

R-307

WARRN

VBG

13

DAWNY

7.7

ZIRDI

15

HOYTS

R-122

20

TACAN

FABUR

2.6

2600

303°

302°

4800

6000

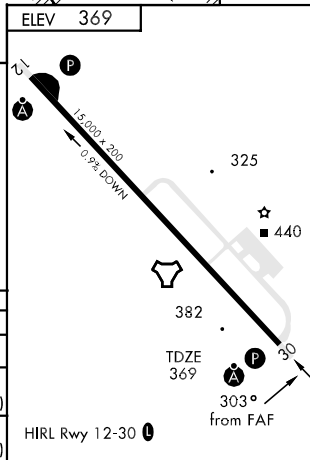
GS 3.00°

TCH 53

0.5 NM

6.2 NM

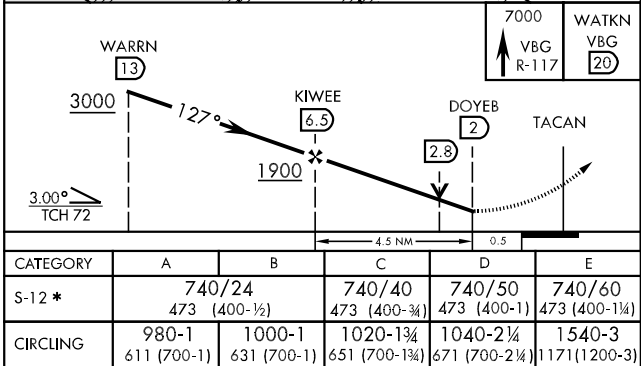
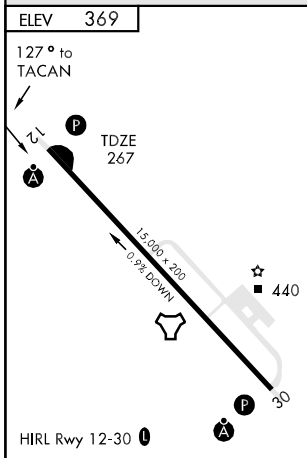
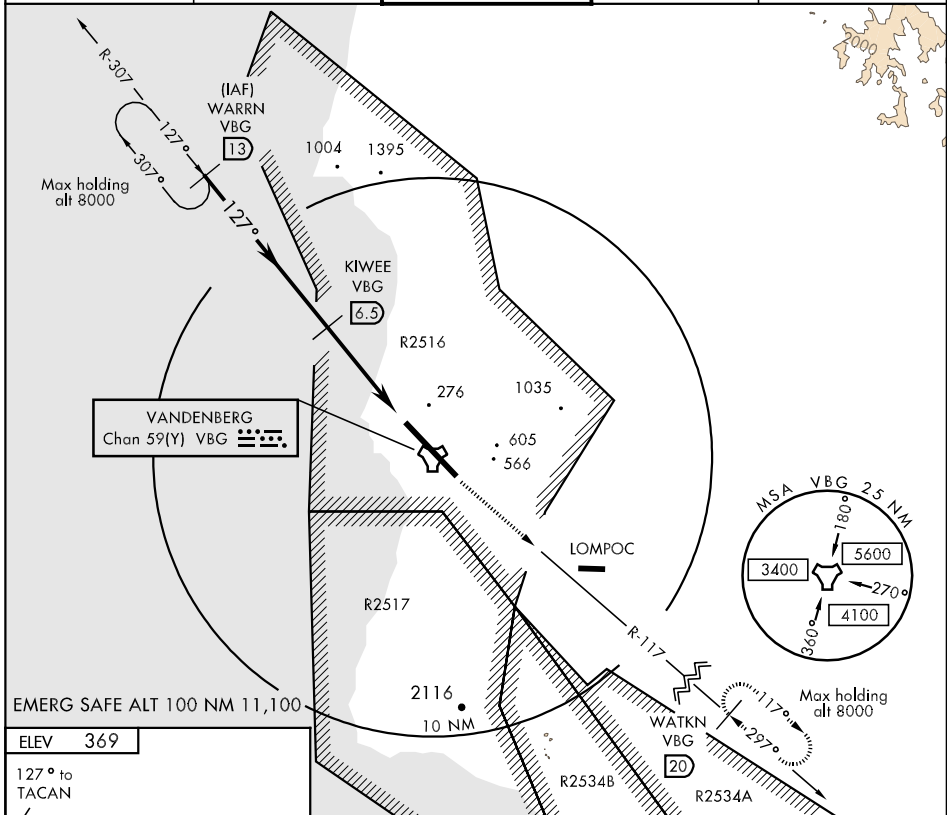
CATEGORY	A	B	C	D	E
S-ILS 30 *	569/24 200 (200-½)				
S-LOC/ DME 30 **	940/24	571 (600-½)	940/50 571 (600-1)	940/60 571 (600-1¼)	940-1½ 571 (600-1½)
CIRCLING	980-1 611 (700-1)	1000-1 631 (700-1)	1020-1¾ 651 (700-1¾)	1040-2¼ 671 (700-2¼)	1540-3 1171 (1200-3)



TACAN VBG Chan 59(Y)	APCH CRS 127°	Rwy Idg 15,000 TDZE 267 Arpt Elev 369	AL-770 [USAF]	VANDENBERG AFB (KVBG)
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* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT DE increase vis to 1½ miles.	ALSF-2	MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.
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ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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TACAN VBG
Chan **59(Y)**

APCH CRS
297°

Rwy ldg **15,000**
TDZE **369**
Arpt Elev **369**

AL-770 [USAF]

VANDENBERG AFB (KVBG)



* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT D vis to 1¾ miles and CAT E vis to 2 miles.

ALSIF-2



MISSED APPROACH: Climb out VBG TACAN R-307 to WARRN and hold. Continue climb in hold maintain 4000.

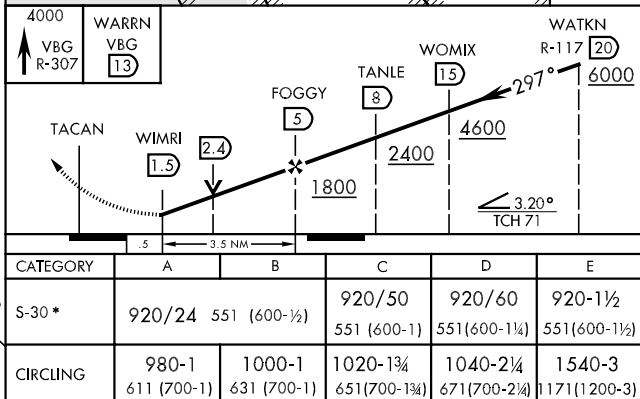
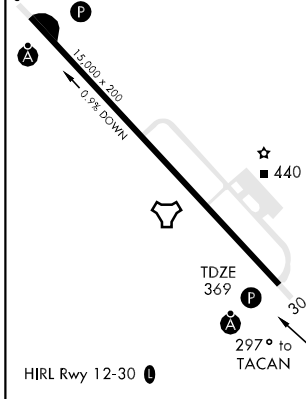
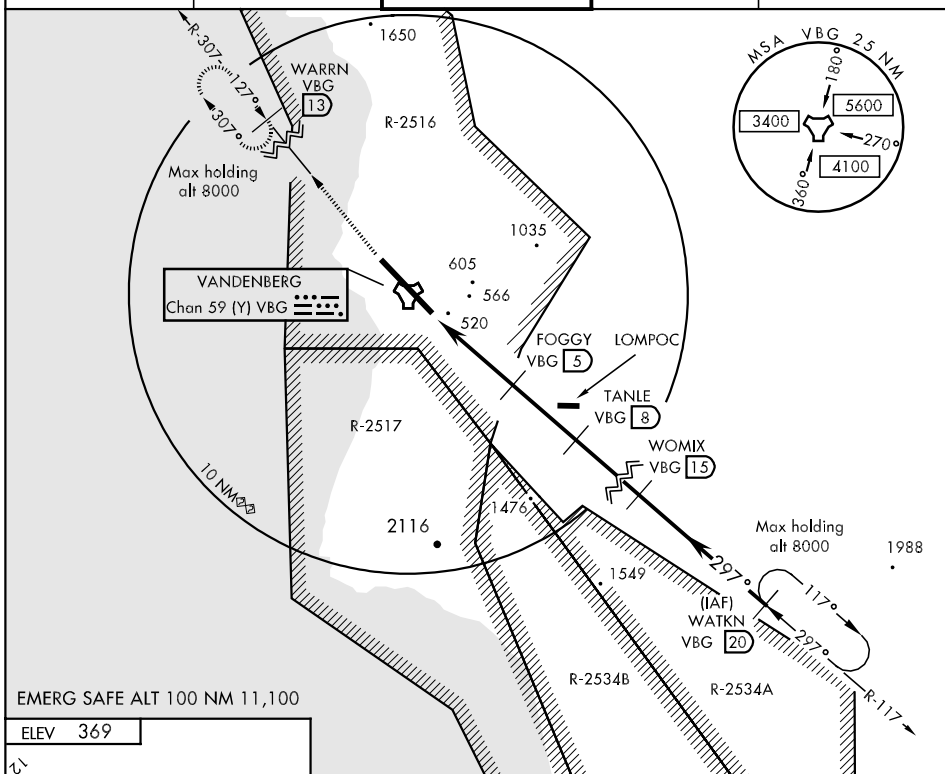
ATIS
133.125 257.975

SANTA BARBARA
APP/DEP CON
124.15 327.8

VANDENBERG TOWER ★
124.950 (CTAF) **326.2**

GND CON
121.75 275.8

CLNC DEL
121.75 275.8



VANDENBERG ONE DEPARTURE (VBG1.MQO)

VANDENBERG AFB (RVBG)
LOMPOC, CALIFORNIA

ATIS
133.125 257.975
GND CON
121.75 275.8
CLNC DEL
121.75 275.8
VANDENBERG TOWER
124.95 326.2
SANTA BARBARA DEP CON
124.15 327.8

SL-770 [USAF]

Rwy	Knots	60	120	180	240
30	V/V(fpm)	230	460	690	920

• Minimum Climb Rate to 700.

4000



2808

MORRO BAY
112.4 MQO
Chan 71
L-3, L-7

335°

1300

R-155

303°

447

1377



VANDENBERG
Chan 59(Y) VBG

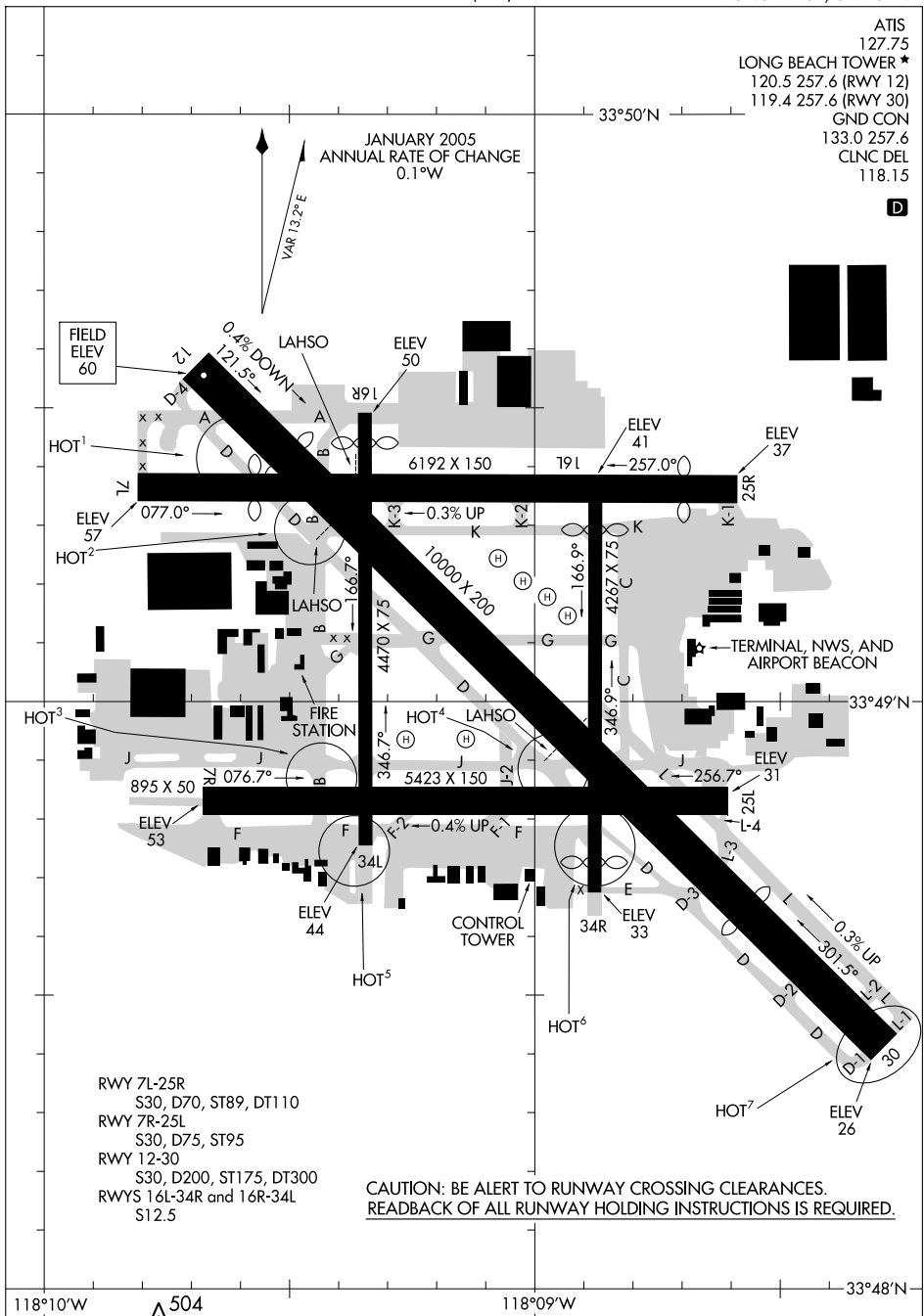
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 30: Cross DER at or above 35' AGL/274' MSL, climb on track 303° to join MQO VORTAC R-155 at or above 1300, direct MQO. Cross MQO at or above 4000. Expect vectors to first filed fix/route prior to MQO.

AIRPORT DIAGRAM

AL-236 (FAA)

LONG BEACH (DAUGHTERY FIELD) (LGB)
LONG BEACH, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

HECTOR or LAKE HUGHES TRANSITION: Climb runway heading to 800' then fly assigned heading for radar vectors to SLI VORTAC. Thence. . . .

VENTURA TRANSITION: Climb runway heading to 800' then fly assigned heading for radar vectors to LAX VORTAC. Thence. . . .

. . . .via (transition) or (assigned route). Maintain assigned altitude. Expect clearance to filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM3.HEC): From over SLI VORTAC via SLI R-058 and PDZ R-238 to PDZ VORTAC, then via PDZ R-012 and HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM3.LHS): From over SLI VORTAC via SLI R-058 and PDZ R-238 to POXKU INT, then via POM R-164 to BAYJY INT, then via VNY R-095 to DARTS INT. Thence via SLI R-319 and LHS R-139 to LHS VORTAC.

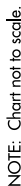
VENTURA TRANSITION (ANAHM3.VTU): From over SLI VORTAC via SLI R-251 to WILMA INT, then via LAX R-123 to LAX VORTAC, then via LAX R-276 and VTU R-093 to VTU VOR/DME.

ILS or LOC RWY 30
LONG BEACH (DAUGHERTY FIELD) (LGB)

MISSED APPROACH: Climb to 800 then climbing left turn to 2600 via heading 200° and LAX R-145 to PADDR INT/LAX 22 DME and hold.

Figure 1 illustrates a non-parallel glidepath scenario. The top left diagram shows a glidepath with a 200° turn and a 113.6° angle. The top right diagram shows a glidepath with a 121° turn and a 301° angle. The bottom left diagram shows a glidepath with a 121° turn and a 301° angle. The bottom right diagram shows a glidepath with a 121° turn and a 301° angle.

LONG BEACH, CALIFORNIA

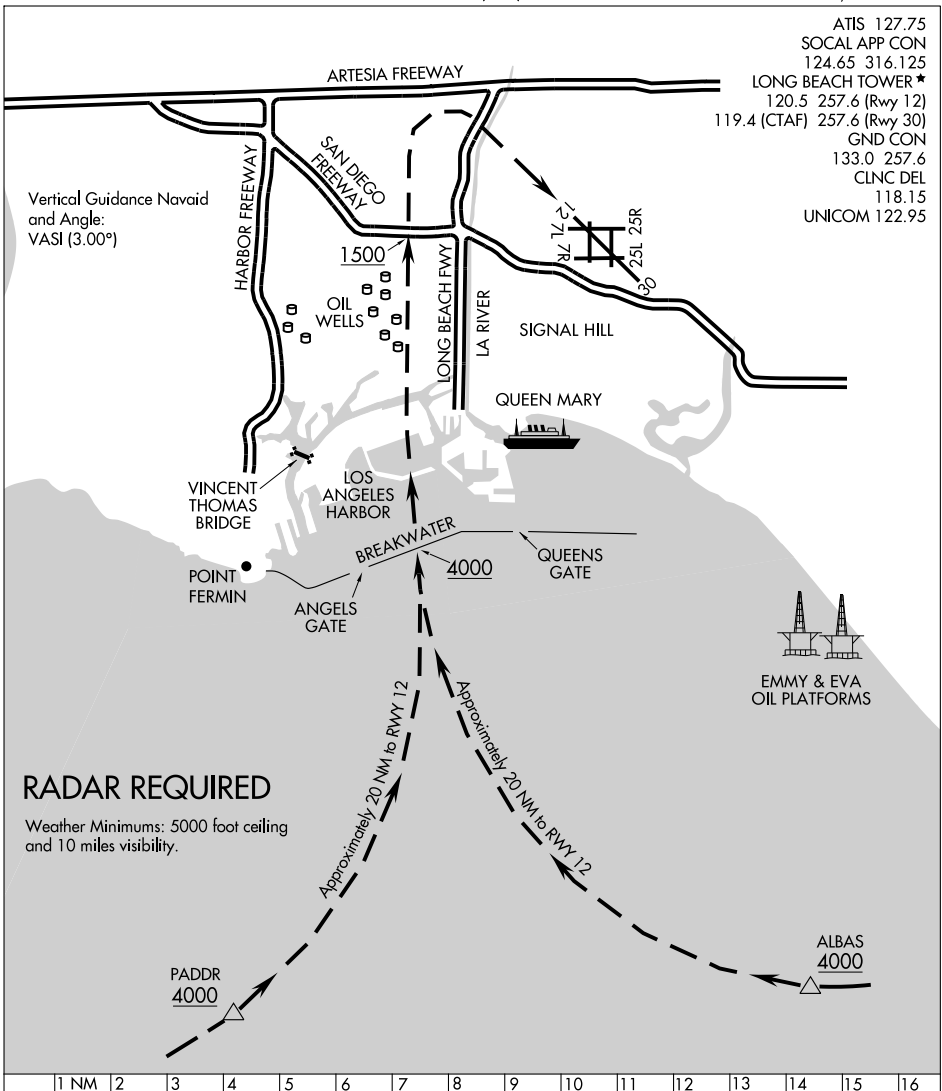


LA RIVER VISUAL RWY 12

AL-236 (FAA)

LONG BEACH (DAUGHERTY FIELD) (LGB)

LONG BEACH, CALIFORNIA



PROCEDURE NOT AUTHORIZED AT NIGHT.

WAAS CH 90120 W30A	APP CRS 301°	Rwy Idg 8000 TDZE 38 Apt Elev 60
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RNAV (GPS) Z RWY 30
LONG BEACH (DAUGHERTY FIELD) (LGB)

MALSR

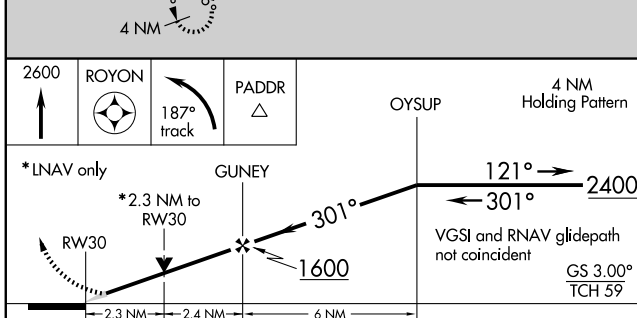
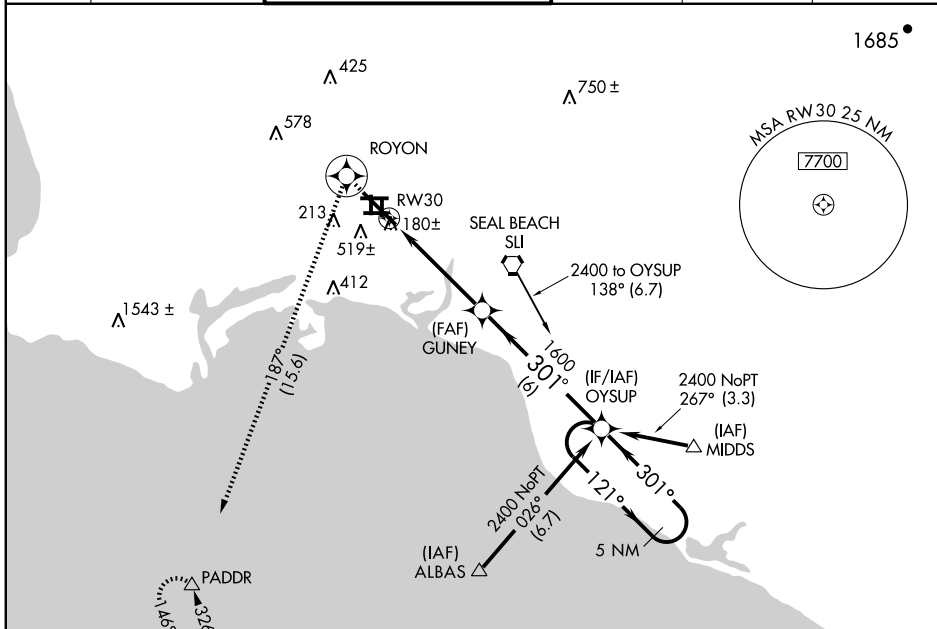
MISSED APPROACH: Climb to 2600 direct ROYON and left turn via 187° track to PADDR and hold.

Baro-VNAV NA below -15°C (5°F).
DME/DME RNP- 0.3 NA.

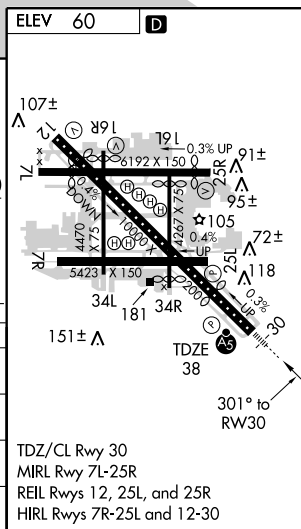
ATIS	SOCAL APP CON
127.75	124.65 316.125

LONG BEACH TOWER★
120.5 257.6 (Rwy 12)
119.4 (CTAF) 257.6 (Rwy 30)

GND CON
133.0 257.6

CLNC DEL
118-15UNICOM
122.95

CATEGORY	A	B	C	D
LPV DA	290/24 252 (300-½)			
LNAV/VNAV DA	657-1¾ 619 (600-1¾)			
LNAV MDA	820/24 782 (800-½)	820/40 782 (800-¾)	820-1¾ 782 (800-1¾)	820-2 782 (800-2)
CIRCLING	880-2¼ 820 (900-2¼)		880-2½ 820 (900-2½)	880-2¾ 820 (900-2¾)



APP CRS	Rwy Idg	8650
121°	TDZE	53
	Apt Elev	60

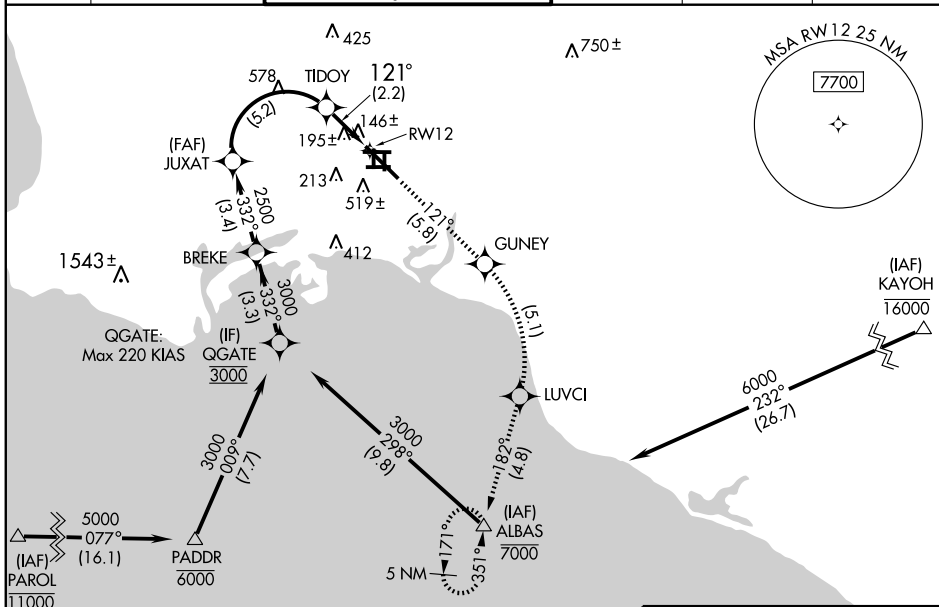
RNAV (RNP) RWY 12

LONG BEACH (DAUGHERTY FIELD) (LGB)

NA RF and GPS required.
 Procedure NA when control tower closed.
 For uncompensated Baro-VNAV systems, procedure NA below 3°C (37°F) or above 49°C (121°F).
 Visibility reduction by helicopters NA.

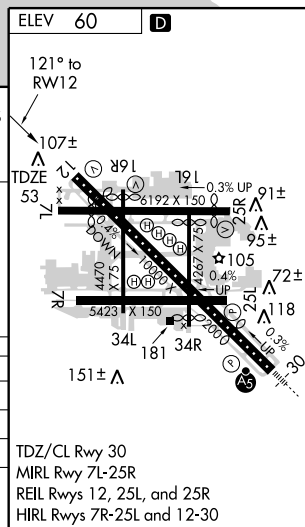
MISSED APPROACH: Climb to 3000 via 121° track to GUNEEY, right radius turn to LUVCI, 182° track to ALBAS and hold.

ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 0 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
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QGATE	BREKE	JUXAT	TIDOY	RW12
3000	3000	2500	798	
GP 3.00° TCH 47	332°	332°	121°	
3.3 NM	3.4 NM	5.2 NM	2.2 NM	
CATEGORY	A	B	C	D
RNP 0.13 DA	371-1 318 (400-1)			
RNP 0.19 DA	388-1¼ 335 (400-1¼)			
RNP 0.30 DA	478-1½ 425 (500-1½)			

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**



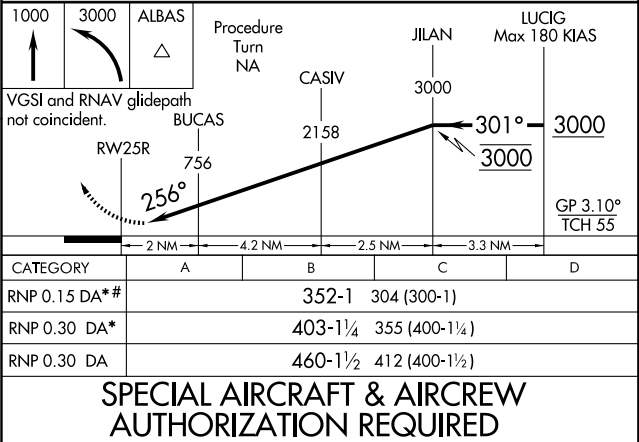
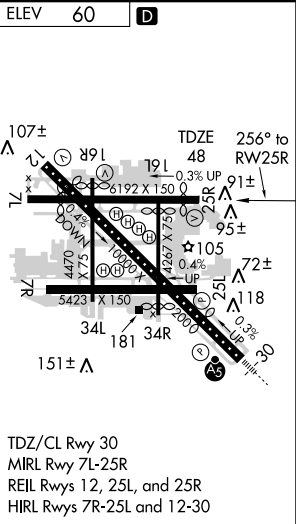
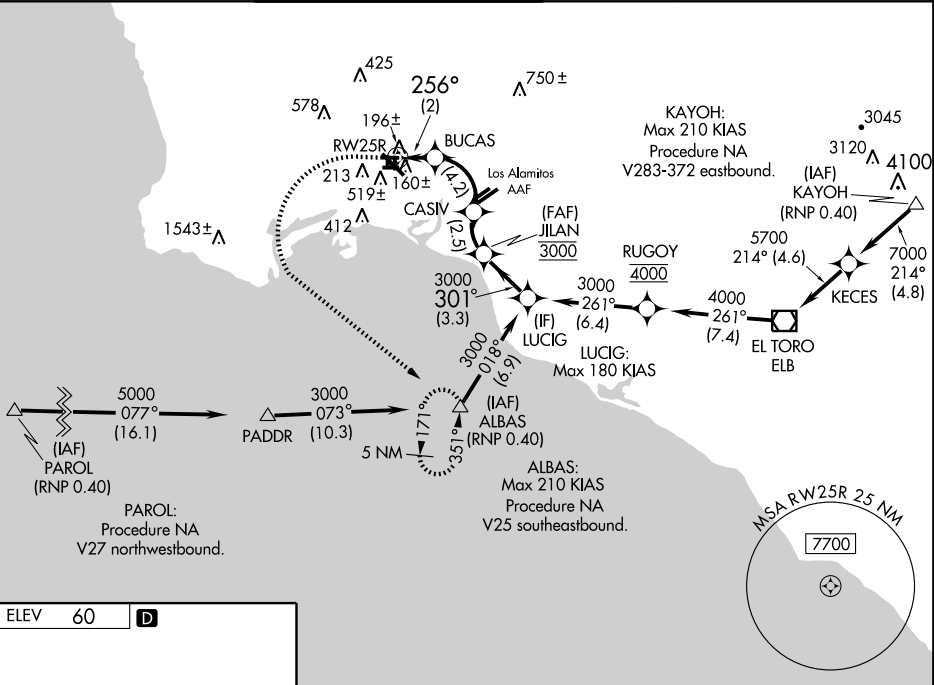
APP CRS	Rwy Idg	5661
256°	TDZE	48
	Apt Elev	60

RNAV (RNP) RWY 25R

LONG BEACH (DAUGHERTY FIELD) (LGB)

RF and GPS required. Procedure NA when control tower closed. For uncompensated Baro-VNAV systems, procedure NA below 3°C (38°F) or above 39°C (102°F). * NA at night. Visibility reduction by helicopters NA. # Missed approach requires minimum climb of 370 feet per NM to 500.	MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 direct ALBAS and hold.
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ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
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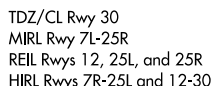
RNAV (RNP) Y RWY 30
LONG BEACH (DAUGHERTY FIELD) (LGB)

MISSED APPROACH: Climb to 3000 via 301° track to NILCI, left radius turn to HIVUD, 117° track to ALBAS and hold.

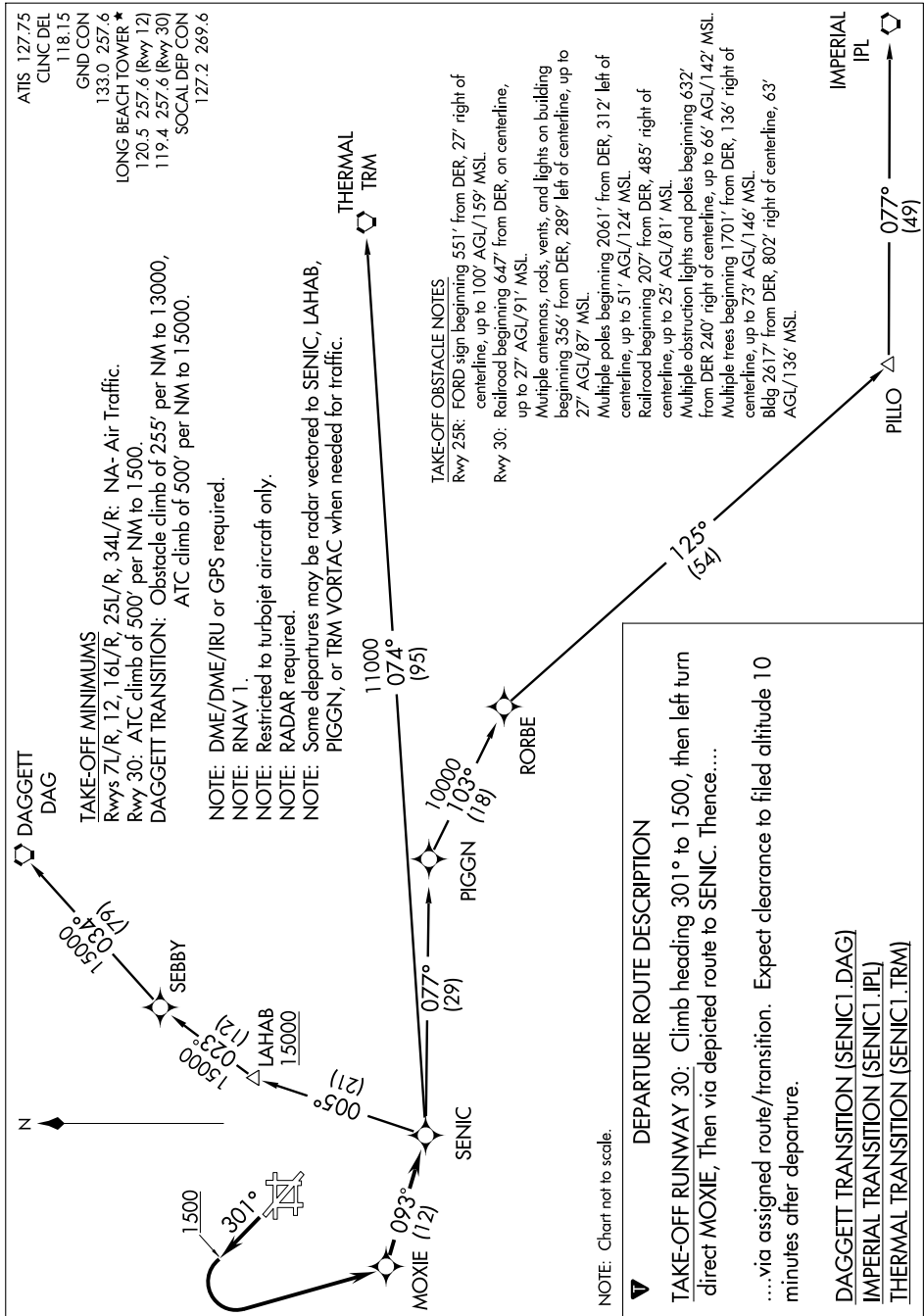
* When VGSI inoperative, procedure NA at night.

UNICOM
122.95

D



3000 ↑ 301° track	NILCI ✦	HIVUD ✦	117° track	ALBAS △	Procedure Turn NA	LUCIG
VGSJ and RNAV glidepath not coincident.			GUNEY			
	RW30	1600	301°	1600		2000
	4.7 NM	5 NM				GP 3.00° TCH 59
CATEGORY	A	B	C	D		
RNP 0.13 DA		358/40	320 (300-¾)			
RNP 0.30 DA*		408/40	370 (400-¾)			
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED						





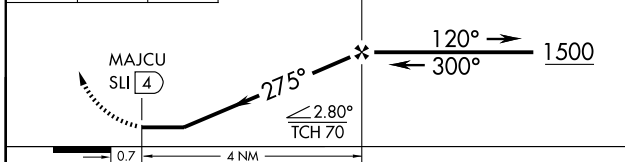
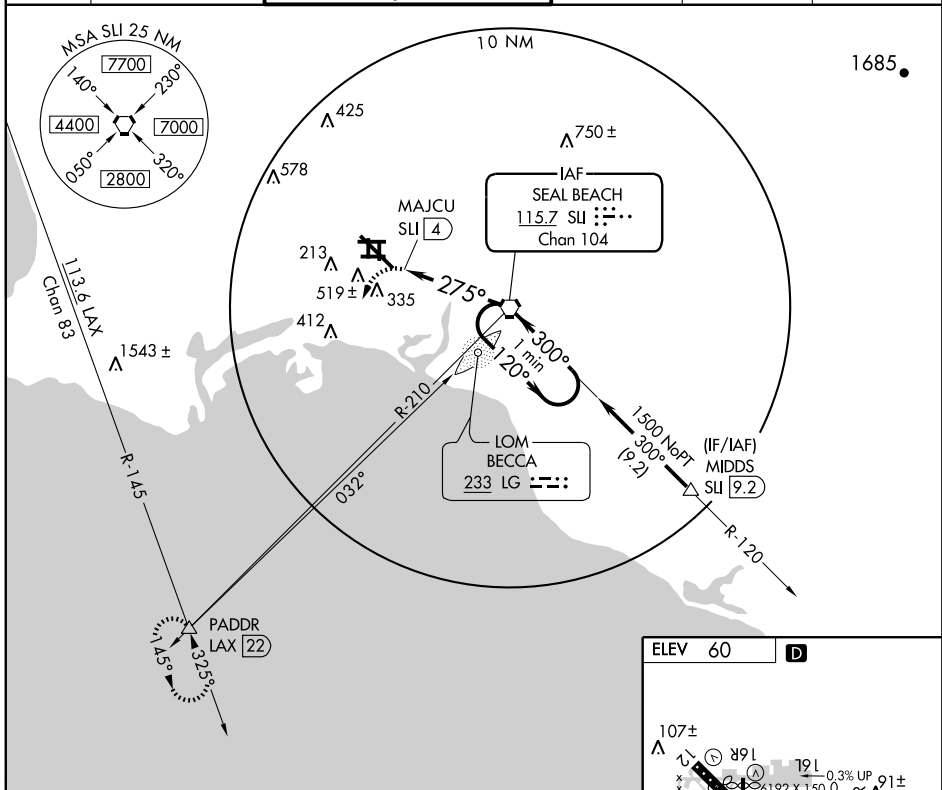
...From over SADDE INT via FIM R-148 to PAROL INT. From over PAROL INT via SXC R-310 to SXC VORTAC. Then from over SXC VORTAC via SXC R-037 and SU R-171 to SU VORTAC.

VOR or TACAN RWY 30
LONG BEACH (DAUGHERTY FIELD) (LGB)



MISSED APPROACH: Climbing left turn to 2500 via heading 200° and LAX R-145 to PADDR Int/LAX 22 DME and hold.

ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 0 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
----------------	---------------------------------	--	------------------------	--------------------	------------------



CATEGORY	A	B	C	D	REIL Rwy 12, 25L, and 25R HIREL Rwy 7R-25L and 12-30					
S-30	640/50	602 (600-1)	640-1 $\frac{3}{4}$ 602 (600-1 $\frac{3}{4}$)	640-2 602 (600-2)	FAF to MAP 4 NM					
CIRCLING	880-1 820 (900-1)	880-1 $\frac{1}{4}$ 820 (900-1 $\frac{1}{4}$)	880-2 $\frac{1}{2}$ 820 (900-2 $\frac{1}{2}$)	880-2 $\frac{3}{4}$ 820 (900-2 $\frac{3}{4}$)	Knots	60	90	120	150	180
					Min:Sec	4:00	2:40	2:00	1:36	1:20

ATIS ★
118.875 379.975
LOS ALAMITOS TOWER ★
123.85 251.15
GND CON
126.95 257.95

APRIL 2008
ANNUAL RATE OF CHANGE
0.2°W

VAR 12.9°E

33°48'N

FIELD
ELEV
32

ANDERSON
DROP ZONE

ELEV 24

BILLETING

ELEV 24

NATIONAL GUARD
OPERATIONS

HANGAR 1

HANGAR 2

FIRE STATION

HANGAR 3

ARMY RESERVE

CONTROL TWR (121)
BASE OPS

ELEV 25

CIVIL AIR
PATROL

POL

5902 x 130

8001 x 200

COMPASS
ROSE

HOT CARGO

ELEV 17

ELEV 18

200
RAD

1000 x 200

RWY 4R-22L

PCN 36 R/C/W/T

RWY 4L-22R

PCN 36 F/C/W/T

CLOSED RWY

WEIGHT BEARING CAPACITY

(UNKNOWN)

33°47'N

118°04'W

118°03'W

SW-3, 14 JAN 2010 to 11 FEB 2010

ALBACOR-TWO DEPARTURE (ALBAS 2•ALBAS)

LOS ALAMITOS, CALIFORNIA

ATIS ★
118.875 379.975
GND CON
126.95 257.95
LOS ALAMITOS TOWER
123.85 251.15
SOCAL DEP CON
124.65 316.125

SEAL BEACH
115.7 SLI
Chan 104

SL-953 [USA]

Rwy	Knots	60	120	180	240
22L/R	V/V(fpm)	224	448	672	896

Minimum Climb Rate to 400

LOS ANGELES
113.6 LAX
Chan 83

L-3, L-4, L-7, A-2

① 250

Aprx dist
fr tkof area

ALBAS

EXPECT RADAR VECTORS
FROM DEP CON WITHIN
ONE MINUTE AFTER
TAKE-OFF.

R-2503C

R-2503A

OCEANSIDE
115.3 OCN
Chan 100

L-4

① 1.8 NM from Rwy 22L/R

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 4L/R: Immediate climb to assigned alt. Maintain rwy hdg until passing 400'. Aircraft under VFR conditions maintain rwy hdg until end of rwy approach lights. Turn right hdg 180° for one minute. Thence

TAKE-OFF RWY 22L/R: Immediate climb to assigned altitude. Maintain rwy hdg until passing 400'. Aircraft under VFR conditions maintain rwy hdg until end of rwy. Turn left to hdg 180° for one minute. Thence

.... intercept and proceed via SLI R-171 to ALBAS INT. Cross ALBAS INT at as assigned, then via transition or assigned route.

LOS ANGELES TRANSITION: Via LAX R-123 to LAX (ALBAS 2•LAX).

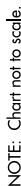
OCEANSIDE TRANSITION: Via direct OCN (ALBAS 2•OCN).

SEAL BEACH TRANSITION: Procedure turn East of course, then inbound via SLI R-171 to SLI. (ALBAS 2•SLI).

ALBACOR-TWO DEPARTURE (ALBAS 2•ALBAS)

LOS ALAMITOS, CALIFORNIA

LONG BEACH, CALIFORNIA



LOM LG	APCH CRS	Rwy Idg	8001
233	206°	TDZE	32
		Arpt Elev	32

AL-953 [USA]

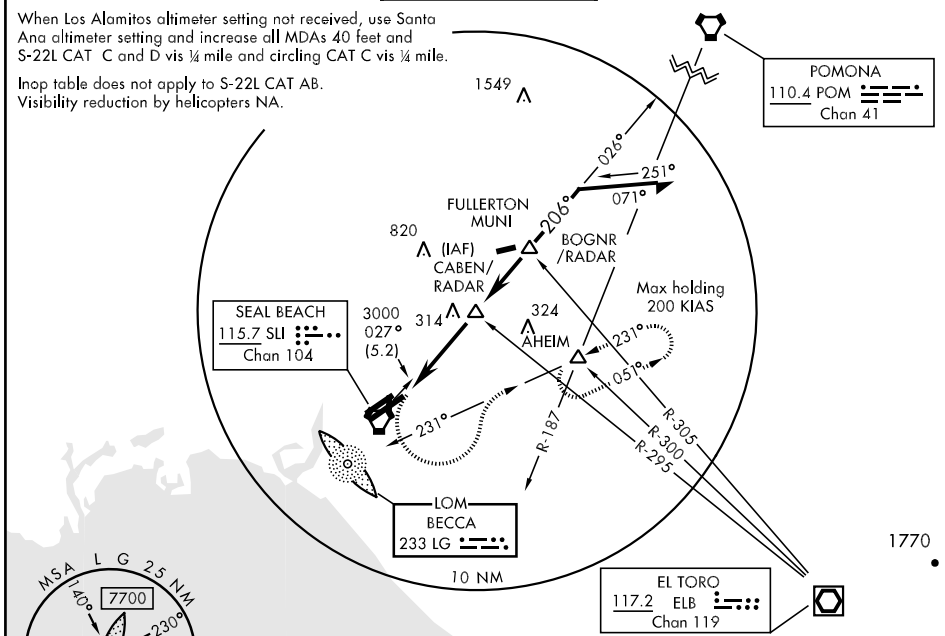
LOS ALAMITOS AAF (KSLI)

▼ * When ALS inop, increase CAT D vis ¼ mile. ** Circling not authorized N of Rwy 4L-22R.	▲ NA *** When ALS inop, increase CAT CD vis to 1 mile.	SALSF 	MISSED APPROACH: Climb to 1800 then climbing left turn to 3000 via BECCA LOM 051° bearing to AHEIM INT and hold.
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ATIS ★ 118.875 379.975	SOCAL APP CON 124.65 316.125	LOS ALAMITOS TOWER ★ 123.85 251.15	GND CON 126.95 257.95	PAR
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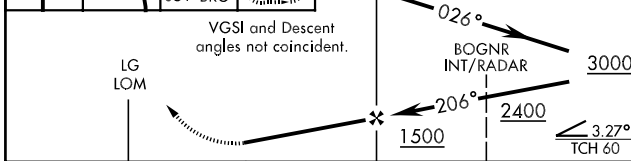
When Los Alamitos altimeter setting not received, use Santa Ana altimeter setting and increase all MDAs 40 feet and S-22L CAT C and D vis ¼ mile and circling CAT C vis ¼ mile.

Inop table does not apply to S-22L CAT AB.
 Visibility reduction by helicopters NA.

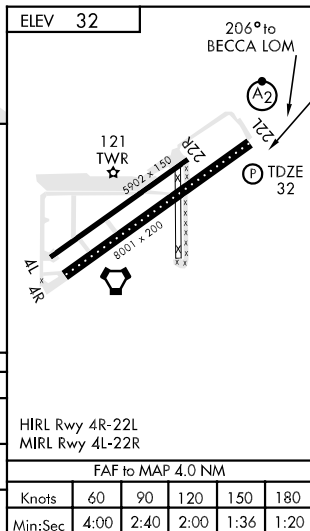


1800	3000	LG 233	AHEIM INT	CABEN INT/RADAR	Remain within 10 NM
		051° BRG			

VGSI and Descent angles not coincident.



CATEGORY	A	B	C	D
S-22L *	620-1 588 (600-1)	620-1 588 (600-1 ¼)	620-1 588 (600-1 ½)	620-1 588 (600-1 ¾)
CIRCLING **	620-1 588 (600-1)	620-1 588 (600-1 ¼)	620-1 588 (600-1 ½)	620-2 588 (600-2)
S-PAR ***	282-¾	250 (300-¾)	GS 3.0°	



HIRL Rwy 4R-22L
 MIRL Rwy 4L-22R

FAF to MAP 4.0 NM

Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

APCH CRS **220°**
Rwy Idg **8001**
TDZE **32**
Arpt Elev **32**

AL-953 [USA]

LOS ALAMITOS AAF (KSLI)



* When ALS inop, increase CAT D vis ½ mile.

** Circling not authorized N of Rwy 4L-22R.



NA *** When ALS inop, increase CAT CD vis to 1 mile.

SALSF



† MISSED APPROACH: Climbing left turn to 3200 direct AHEIM and hold.

ATIS *

118.875 379.975

SOCAL APP CON

124.65 316.125

LOS ALAMITOS TOWER *

123.85 251.15

GND CON

126.95 257.95

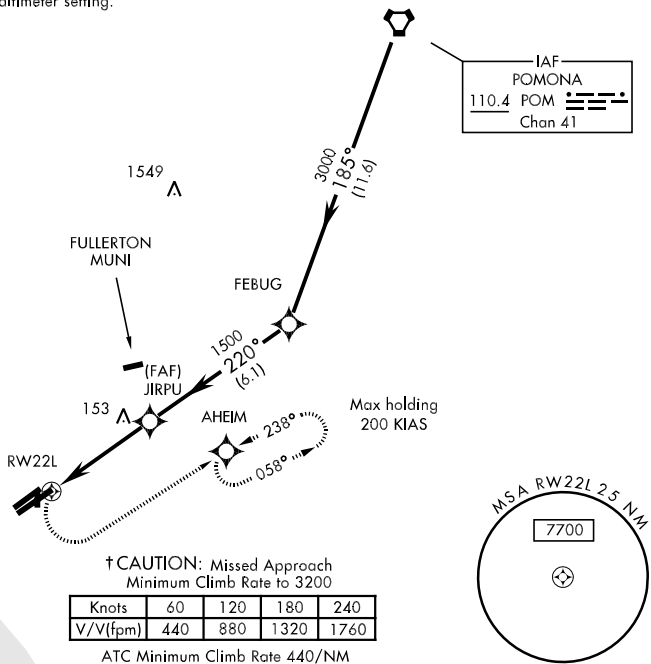
PAR

When Los Alamitos altimeter setting not available, use Santa Ana altimeter setting and increase MDAs 40'.

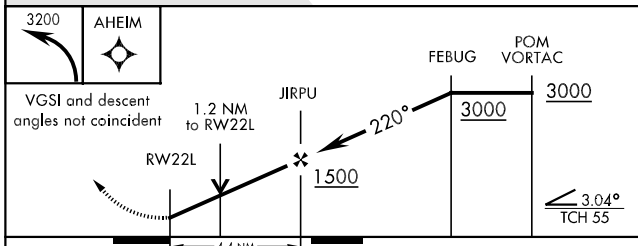
Procedure NA for arrivals at POM VORTAC on airway radials 164° CW 225°.

VDP NA when using Santa Ana altimeter setting.

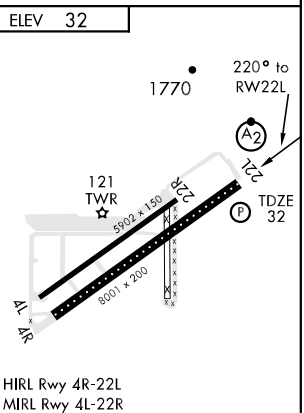
DME/DME RNP 0.3 N/A



SW-3, 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
RNAV/MDA*	480-¾ 448 (500-¾)	480-1 448 (500-1)	480-1½ 448 (500-1½)	480-2 448 (500-2)
CIRCLING **	480-1 448 (500-1)	500-1 468 (500-1)	500-1½ 468 (500-1½)	600-2 568 (600-2)
S-PAR 22L ***	282-¾ 250 (300-¾)	GS 3.0°		



VORTAC SLI 115.7 Chan 104	APCH CRS 214°	Rwy Idg 8001 TDZE 32 Arpt Elev 32
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AL-953 [USA]

LOS ALAMITOS AAF (KSLI)

T * When ALS inop, increase vis CAT D ¼ mile.
 ** When ALS inop, increase CAT CD vis to 1 mile.
 *** Circling not authorized N of Rwy 4L-22R.

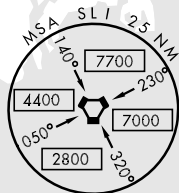
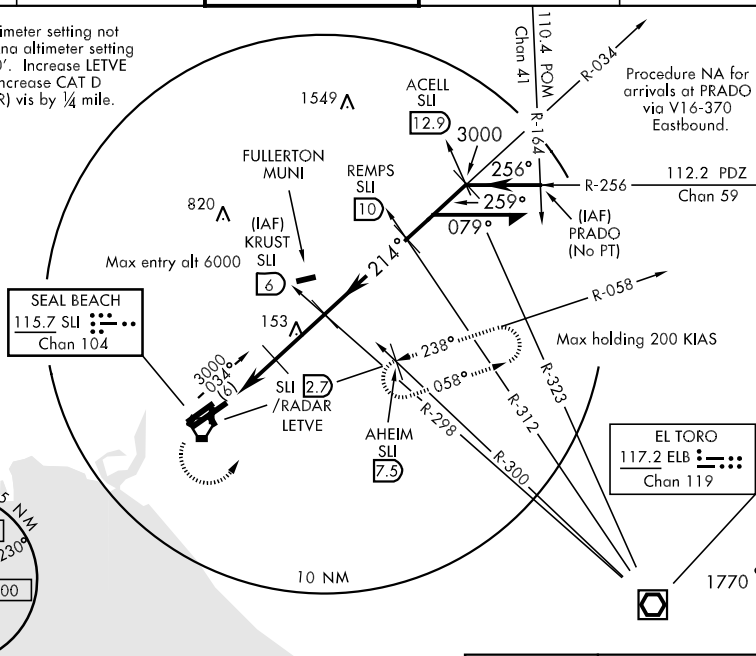
SALSF

MISSED APPROACH: Climb to 1800, then climbing left turn to 3000 via SLI VORTAC R-058 to AHEIM INT and hold.

ATIS ★ 118.875 379.975	SOCAL APP CON 124.65 316.125	LOS ALAMITOS TOWER ★ 123.85 251.15	GND CON 126.95 257.95	PAR
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When Los Alamitos altimeter setting not available, use Santa Ana altimeter setting and increase MDAs 40'. Increase LETVE fix minimum by 40'. Increase CAT D (S-22L, DME or RADAR) vis by 1/4 mile.



1800 3000 AHEIM

SLI R-058

VGSIs and descent angles not coincident.

VORTAC

OYAVE SLI 1.7 /RADAR

LETVE SLI 2.7 /RADAR

ELB R-298

REMPs SLI 10

KRUST SLI 6

Remain within 10 NM

034°

214°

3000

2700

1700

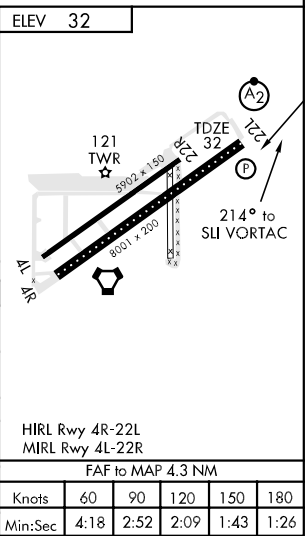
580

At or above 620 when using Santa Ana Altimeter setting.

3.11°

TCH 55

CATEGORY	A	B	C	D
S-22L	580- $\frac{3}{4}$ 548 (600- $\frac{3}{4}$)		580-1 $\frac{1}{4}$ 548 (600-1 $\frac{1}{4}$)	580-1 $\frac{1}{2}$ 548 (600-1 $\frac{1}{2}$)
CIRCLING ***	580-1 548 (600-1)		580-1 $\frac{1}{2}$ 548 (600-1 $\frac{1}{2}$)	600-2 568 (600-2)
DME or RADAR				
S-22L *	440- $\frac{3}{4}$ 408 (500- $\frac{3}{4}$)		440-1 408 (500-1)	440-1 $\frac{1}{4}$ 408 (500-1 $\frac{1}{4}$)
CIRCLING ***	440-1 408 (500-1)	500-1 468 (500-1)	500-1 $\frac{1}{2}$ 468 (500-1 $\frac{1}{2}$)	600-2 568 (600-2)
S-PAR 22L **	282- $\frac{3}{4}$ 250 (300- $\frac{3}{4}$) GS 3.0°			

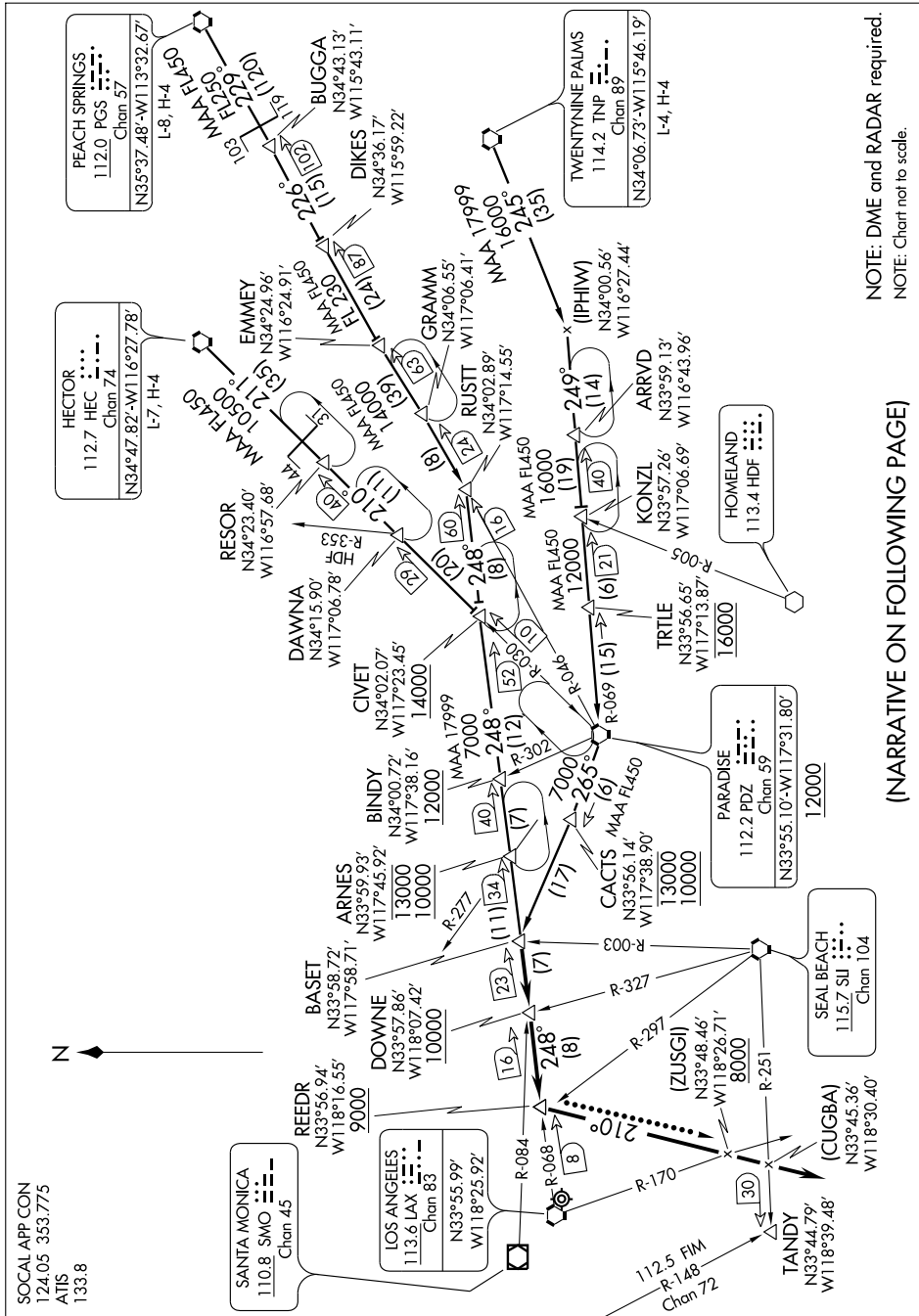


LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

LOS ANGELES, CALIFORNIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



NOTE: DME and RADAR required.

(NARRATIVE ON FOLLOWING PAGE)

SW-3. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

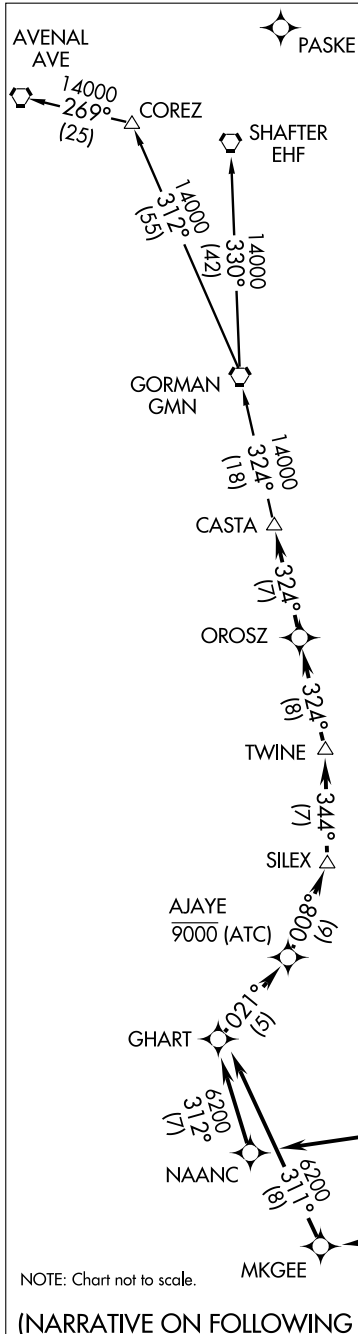
HECTOR TRANSITION (HEC.BASET3): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then via LAX R-068 to BASET INT. Thence....

PEACH SPRINGS TRANSITION (PGS.BASET3): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then via LAX R-068 to BASET INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.BASET3): From over TNP VORTAC via TNP R-245 and PDZ R-069 to PDZ VORTAC, then via PDZ R-265 to BASET INT. Thence....

.... From over BASET INT/DME via LAX R-068 to cross DOWNE INT/DME at or above 10,000' and cross REEDR INT/DME at or above 9,000'. Depart REEDR via heading 210° for radar vectors to final approach course for Runways 6L/R or 7L/R.

LOST COMMUNICATIONS: Depart REEDR heading 210° to intercept the SLI R-251 to TANDY INT/SLI 30 DME.



(NARRATIVE ON FOLLOWING PAGE)

TAKE-OFF MINIMUMS

Rwys 6L, 6R, 7L, 7R, NA - ATC.

Rwys 24L, 24R, 25L, 25R, Standard with a minimum climb of 500' per NM to 1800. ATC climb of 350' per NM to 6200.

ATIS DEP 135.65
CLNC DEL
121.4 327.0
GND CON
N 121.65 327.0
S 121.75 327.0
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

NOTE: DME/DME/IRU, or GPS required.

NOTE: RNAV 1

NOTE: Restricted to turbojet aircraft only.

NOTE: RADAR required.

NOTE: Some departures may be RADAR vectored to AJAYE, SILEX, TWINE or OROSZ.

NOTE: Maintain at or below 250 knots unless otherwise directed by ATC.

NOTE: Use the VENTURA DEPARTURE during the time periods of 2100-0700 local in lieu of the CASTA DEPARTURE.

NOTE: For non-GPS equipped aircraft: PMD DME must be operational for SHAFER TRANSITION, and EHF DME must be operational for AVENAL TRANSITION.

TAKE-OFF OBSTACLE NOTES

Rwy 24L: Bush 957' from DER, 600' left of centerline, 29' AGL/148' MSL.

Multiple light poles beginning 274' from DER, 425' left of centerline, up to 12' AGL/120' MSL.

Antenna on pole 1358' from DER, 287' right of centerline, 25' AGL/144' MSL.

Bush 240' from DER, 508' right of centerline, 10' AGL/116' MSL.

Light pole 296' from DER, 322' right of centerline, 8' AGL/116' MSL.

Rwy 24R: Obstruction light on glideslope 213' from DER, 400' left of centerline, 34' AGL/151' MSL.

Rwy 25L: Bush 134' from DER, 397' left of centerline, 5' AGL/123' MSL.

Tree 2379' from DER, 777' left of centerline, 79' AGL/197' MSL.

Pole 2367' from DER, 764' left of centerline, 55' AGL/184' MSL.

Transmission line tower 2800' from DER, 992' left of centerline, 82' AGL/192' MSL.

Transmission tower 2856' from DER, 926' left of centerline, 82' AGL/192' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000/1300, then via track 251° to cross ENNEY at or below 5000/1300, then via depicted route to CASTA, thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000/1300, then via track 254° to cross ENNEY at or below 5000/1300, then via depicted route to CASTA, thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000/1300, then via track 250° to cross EVOSE at or below 5000/1300, then via depicted route to CASTA, thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000/1300, then via track 254° to cross EVOSE at or below 5000/1300, then via depicted route to CASTA, thence....

....via transition. Expect further clearance to filed altitude three minutes after departure.

AVENAL TRANSITION (CASTA2.AVE)

GORMAN TRANSITION (CASTA2.GMN)

SHAFTER TRANSITION (CASTA2.EHF)

ATIS DEP 135.65

CLNC DEL

121.4 327.0

GND CON

N 121.65 327.0

S 121.75 327.0

LOS ANGELES TOWER

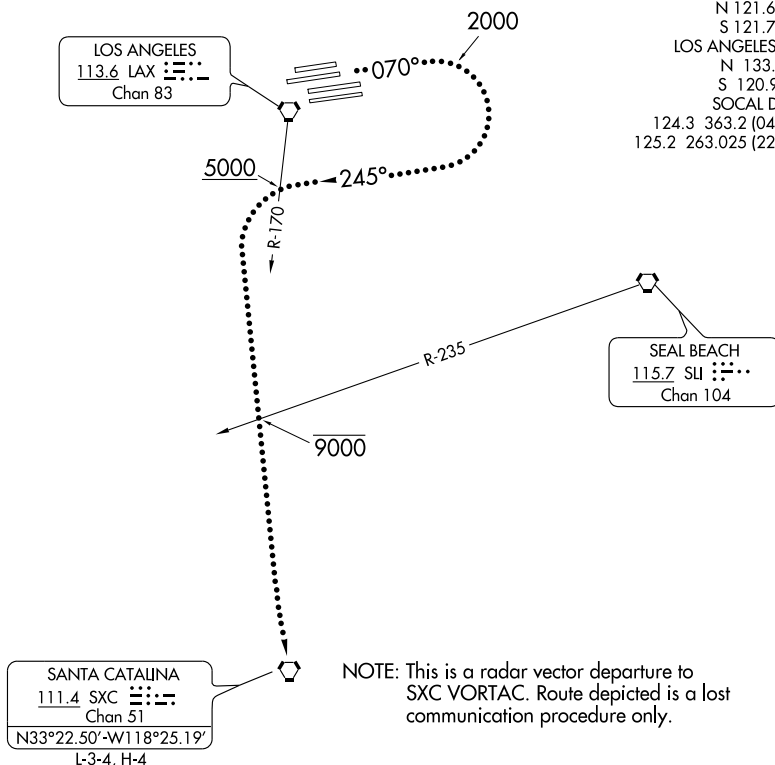
N 133.9 239.3

S 120.95 379.1

SOCAL DEP CON

124.3 363.2 (045°-224°)

125.2 263.025 (225°-044°)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

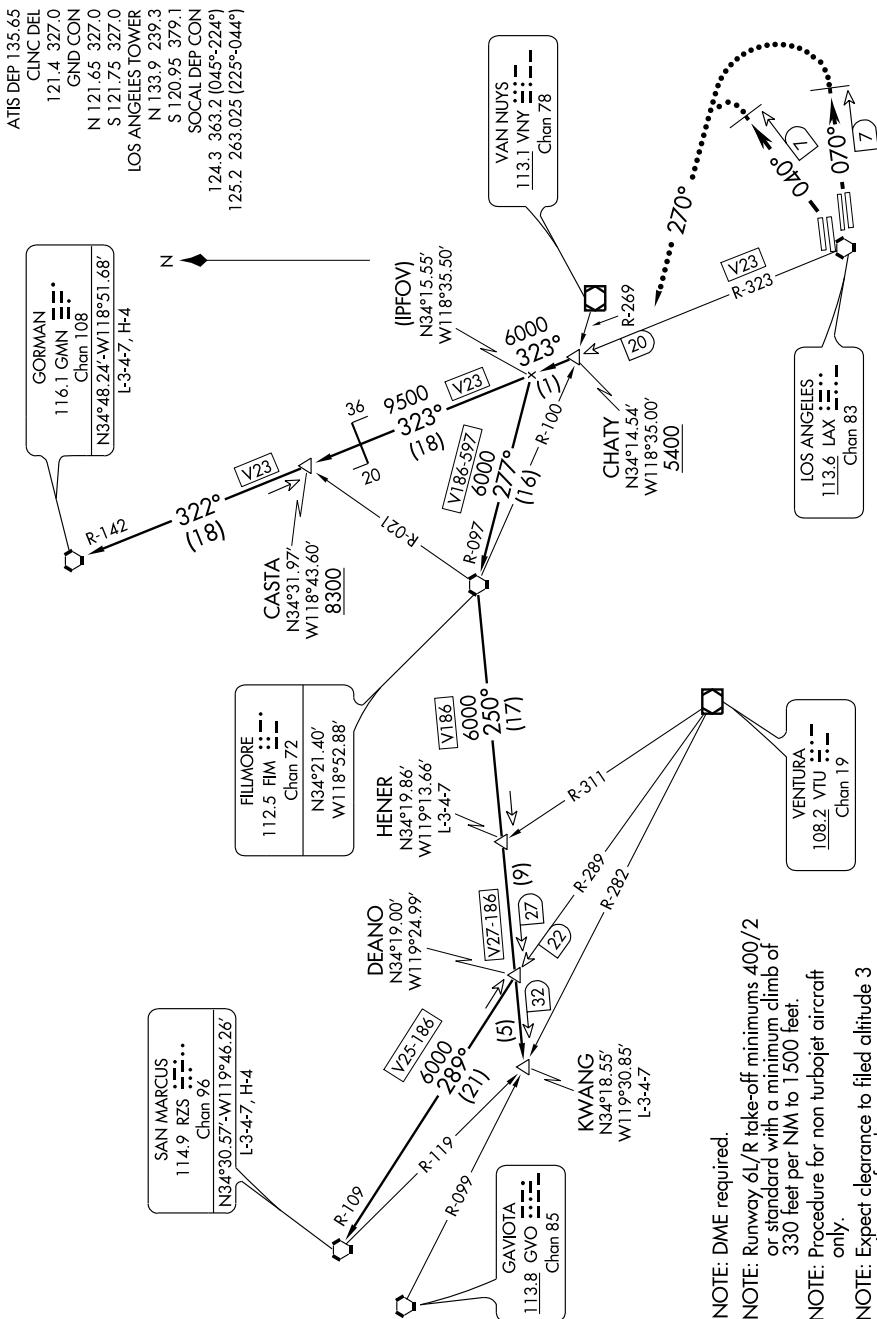
TAKE-OFF RUNWAYS 6/7: Climb via heading 070° for vector to SXC VORTAC. Then via (assigned route). All aircraft expect further clearance to filed altitude three minutes after departure.

LOST COMMUNICATIONS

Take-off Runways 6/7: If not in contact with Departure Control after reaching 2000', turn right heading 245°. Cross LAX R-170 at or above 5000', then turn left proceed direct SXC VORTAC. Cross SLI R-235 at or below 9000'.

CHATY TWO DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

(Continued on next page)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R: Climb via heading 040° for vector to V23; thence via (transition) or (assigned route).

TAKE-OFF RUNWAYS 7L/R: Climb via heading 070° for vector to V23; thence via (transition) or (assigned route).

LOST COMMUNICATIONS

RUNWAYS 6L/R and 7L/R: If no transmissions are received upon reaching the LAX 7 DME, turn left heading 270°, intercept V23 to CHATY INT and resume the CHATY TWO DEPARTURE. Continue climb on course.

GORMAN TRANSITION (CHATY2.GMN): From over CHATY INT via V23 to GMN VORTAC. Cross CHATY INT at or above 5400', and CASTA INT at or above 8300'.

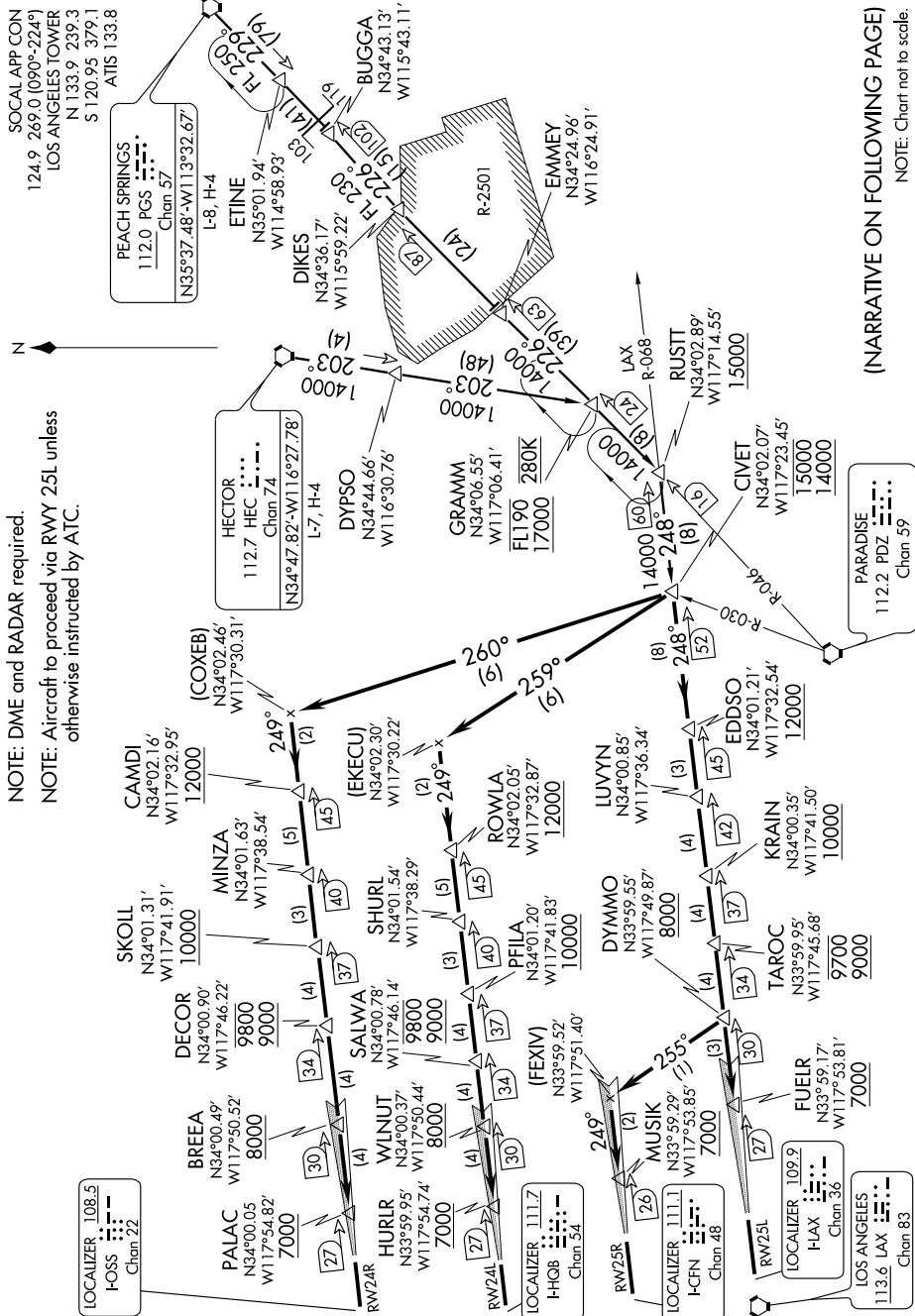
HENER TRANSITION (CHATY2.HENER): From over CHATY INT via V23 and FIM R-097 to FIM VORTAC. Cross CHATY INT at or above 5400'. Then proceed via FIM R-250 to HENER INT.

KWANG TRANSITION (CHATY2.KWANG): From over CHATY INT via V23 and FIM R-097 to FIM VORTAC. Cross CHATY INT at or above 5400'. Then proceed via FIM R-250 to KWANG INT.

SAN MARCUS TRANSITION (CHATY2.RZS): From over CHATY INT via V23 and FIM R-097 to FIM VORTAC. Cross CHATY INT at or above 5400'. Then proceed via FIM R-250 and RZS R-109 to RZS VORTAC.

CIVET FIVE ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.CIVET5): From over HEC VORTAC via HEC R-203 and PDZ R-046 to RUSTT DME, then via LAX R-068 to CIVET DME. Thence....

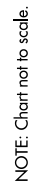
PEACH SPRINGS TRANSITION (PGS.CIVET5): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT DME, then via LAX R-068 to CIVET DME. Thence....

Landing Rwy 25L: From over CIVET, via LAX R-068 to FUELR.
Expect ILS RWY 25L approach.

Landing Rwy 25R: From over CIVET, via LAX R-068 to DYMMO, then via heading 255° and the I-CFN localizer course to MUSIK. Expect ILS RWY 25R approach.

Landing Rwy 24L: From over CIVET via heading 259° and the I-HQB localizer course to ROWLA, thence as depicted to HURLR. Expect ILS RWY 24L approach.

Landing Rwy 24R: From over CIVET via heading 260° and the I-OSS localizer course to CAMDI, thence as depicted to PALAC. Expect ILS RWY 24R approach.



NOTE: This arrival utilized for noise abatement between 0000 LCL and 0630 LCL.
NOTE: DME Required.

(NARRATIVE ON FOLLOWING PAGE)

SW-3. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.DOWNE4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then LAX R-068 to DOWNE INT. Thence....

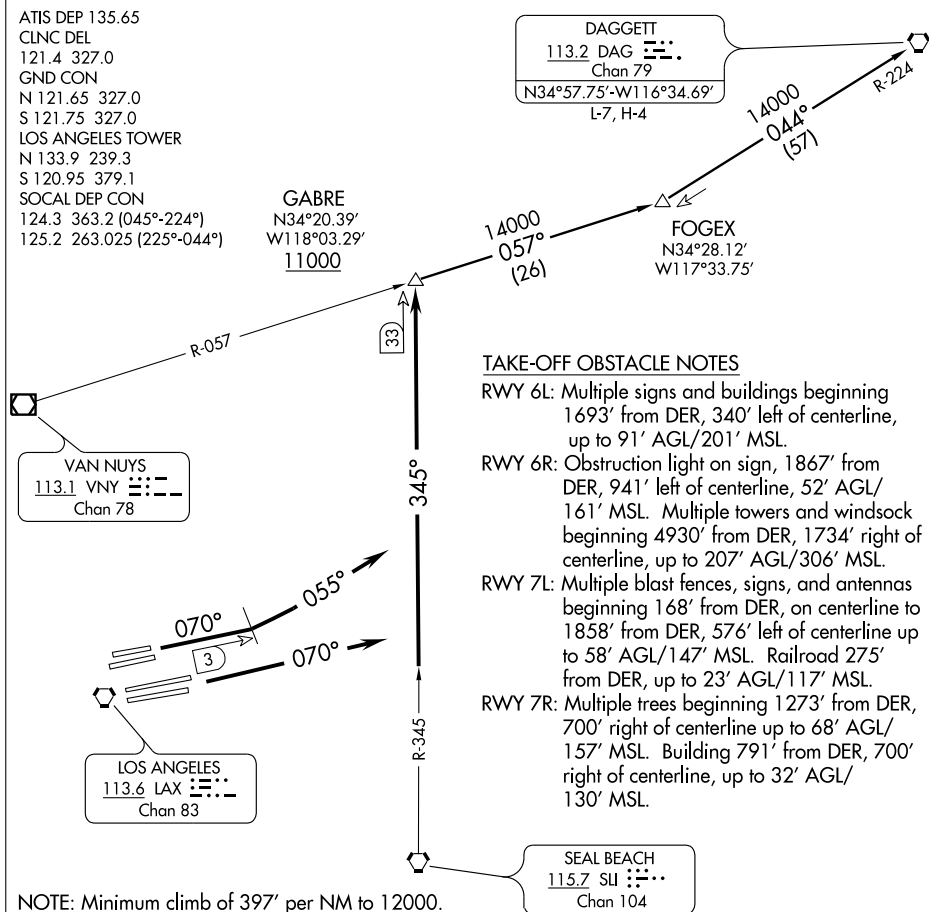
PEACH SPRINGS TRANSITION (PGS.DOWNE4): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then LAX R-068 to DOWNE INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.DOWNE4): From over TNP VORTAC via TNP R-254 to PIONE DME, then LAX R-068 to DOWNE INT. Thence....

....From DOWNE INT via SMO R-085 to SMO VOR/DME, then via SMO R-259 to WAKER INT, expect vector to final approach course for runways 6 and 7.

GABRE SIX DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

NOTE: Minimum climb of 397' per NM to 12000.

NOTE: Expect radar vectors to SLI R-345.

NOTE: RADAR Required.

NOTE: DME Required.

NOTE: RWY 24L/R, 25L/R NA - Air Traffic.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6L/R: Climb heading 070° until the LAX VORTAC 3 DME, then turn left heading 055° for vector to SLI R-345. Thence....

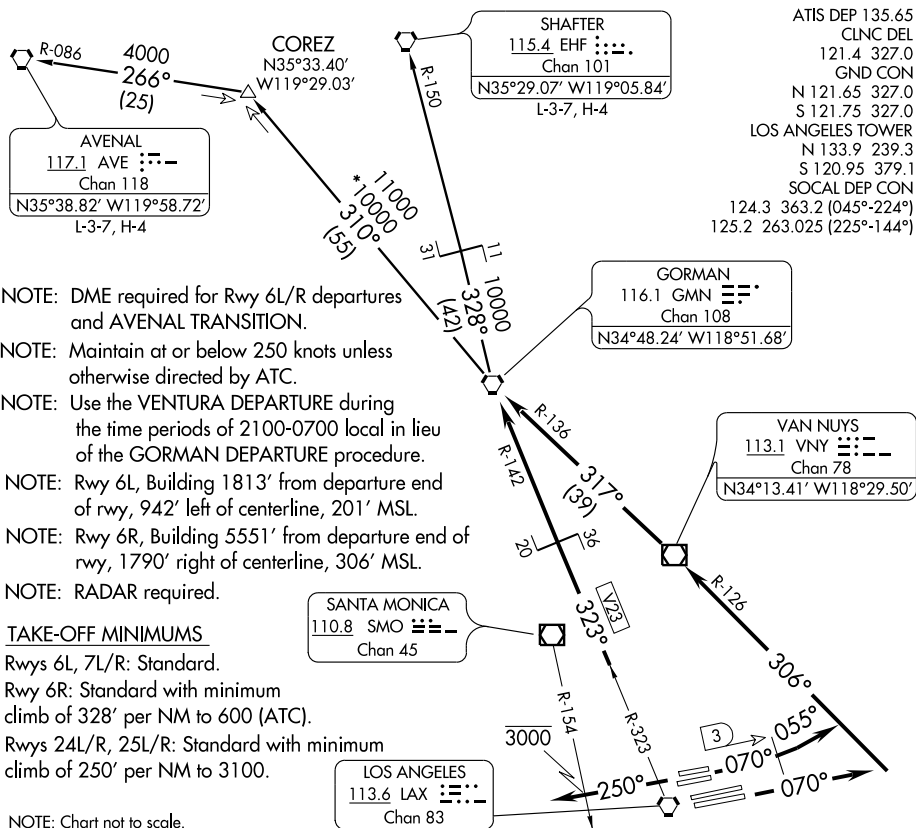
TAKE-OFF RUNWAY 7L/R: Climb heading 070° for vector to SLI R-345. Thence....

....via SLI R-345 to GABRE INT. Then via (transition) or (assigned route).

DAGGETT TRANSITION (GABRE6.DAG): From over GABRE INT via VNY R-057 and DAG R-224 to DAG VORTAC.

GORMAN FOUR DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R: Climb via heading 070° until LAX VORTAC 3 DME, then turn left heading 055° for vector to join VNY R-126 to VNY VOR/DME, then via VNY R-317 and GMN R-136 to GMN VORTAC. Thence....

TAKE-OFF RUNWAYS 7L/R: Climb via heading 070° for vector to join VNY R-126 to VNY VOR/DME, then via VNY R-317 and GMN R-136 to GMN VORTAC. Thence....

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000, then via radar vectors to proceed via LAX R-323 and GMN R-142 to GMN VORTAC. Thence....

....via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

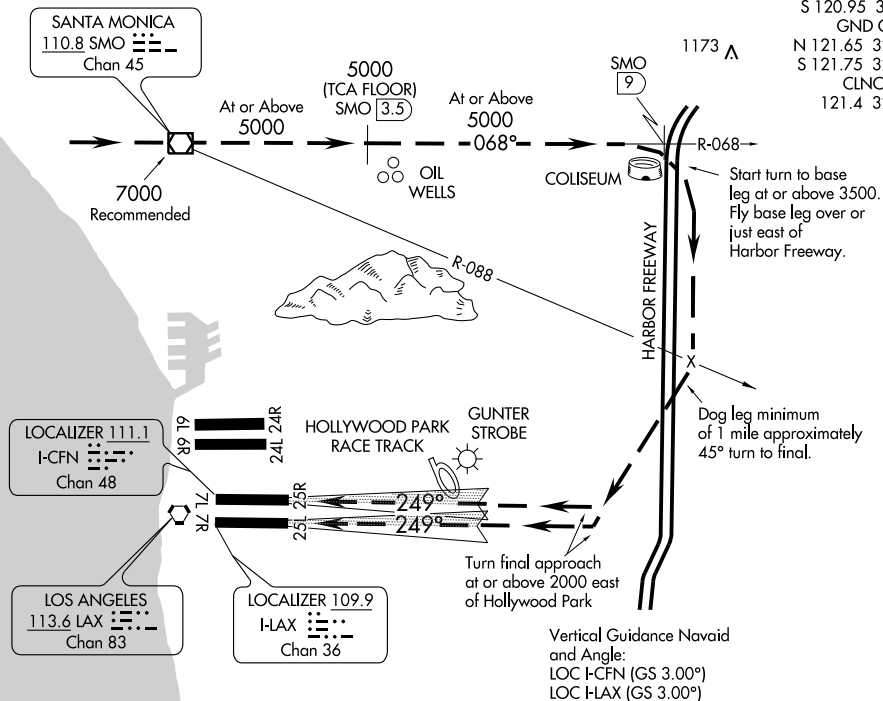
AVENAL TRANSITION (GMN4.AVE): From over GMN VORTAC via GMN R-310 and AVE R-086 to AVE VORTAC.

SHAFTER TRANSITION (GMN4.EHF): From over GMN VORTAC via GMN R-328 and EHF R-150 to EHF VORTAC.

HARBOR VISUAL RWY 25L/R

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS ARR 133.8
DEP 135.65
SOCAL APP CON
124.5 235.975
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
GND CON
N 121.65 327.0
S 121.75 327.0
CLNC DEL
121.4 327.0



RADAR REQUIRED

Weather minimums: 3000 feet ceiling and 3 miles visibility.

CHART NOT TO SCALE

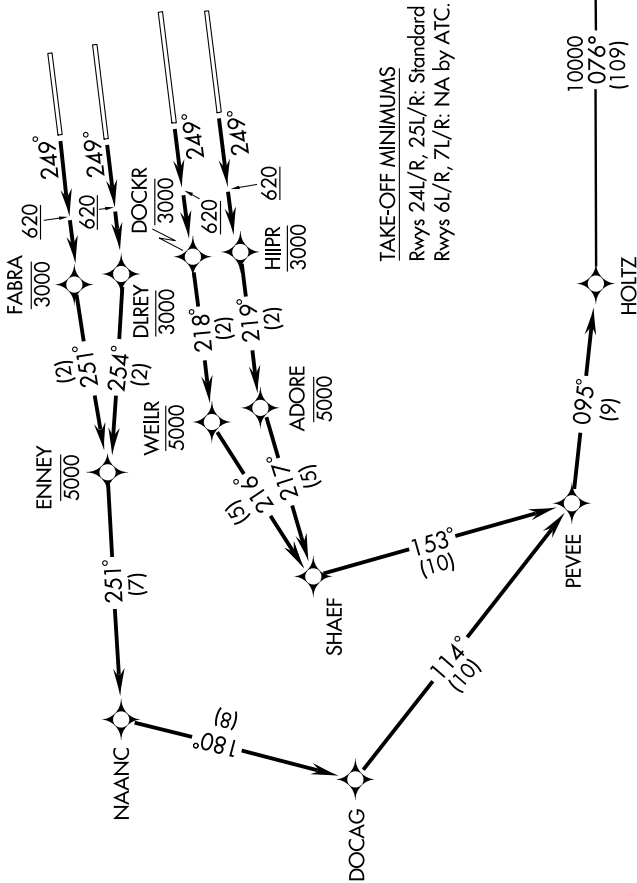
HARBOR VISUAL APPROACH

When visual approaches to Runways 25L/R are in progress, clearances to aircraft from the north and northwest will be given utilizing the following phraseology:

"(IDENT) CLEARED FOR HARBOR VISUAL RUNWAY 25 LEFT/RIGHT APPROACH."

A descent profile of approximately 3° starting at 7000 over SMO VOR/DME may be made with reference to the minimum altitudes above.

ATIS 135.65
 CLNC DEL
 121.4 327.0
 GND CON
 N 121.65 327.0
 S 121.75 327.0
 LOS ANGELES TOWER
 N 133.9 239.3
 S 120.95 379.1
 SOCIAL DEP CON
 124.3 363.2 (045°-224°)
 125.2 263.025 (225°-044°)



TAKE-OFF OBSTACLE NOTES

Rwy 24L: Bush 957' from DER, 601' left of centerline, 29' AGI/148' MSL.
 Light pole 273' from DER, 547' left of centerline, 12' AGI/120' MSL.
 Light pole 301' from DER, 425' left of centerline, 10' AGI/118' MSL.
 Antenna on pole 1358' from DER, 287' right of centerline 25' AGI/144' MSL.
 Bush 240' feet from DER, 508' right of centerline, 10' AGI/116' MSL.
 Light pole 296' from DER, 321' right of centerline, 8' AGI/116' MSL.
 Rwy 24R: OL on glideslope 213' from DER, 400' left of centerline, 34' AGI/151' MSL.
 Rwy 25L: Pole 2366' from DER, 765' left of centerline, 55' AGI/184' MSL.
 T-L tower 2800' from DER, 993' left of centerline, 82' AGI/192' MSL.
 Transmission tower 2856' from DER, 927' left of centerline, 82' AGI/192' MSL.
 Tree 2379' from DER, 778' left of centerline, 79' AGI/197' MSL.
 Bush 134' from DER, 397' left of centerline, 5' AGI/123' MSL.

NOTE: 1. DME/DME/IRU or GPS Required.

2. RNAV 1.

NOTE: For non-GPS equipped aircraft departing Rwy 25R or 25L, SL must be operational.

NOTE: Rwys 24L, 24R departures expect radar vector to PEVEE prior to NAANC.

NOTE: RADAR Required.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000, then via 251° track to cross ENNEY at or below 5000, then via depicted route to HOLTZ, Thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000, then via 254° track to cross ENNEY at or below 5000, then via depicted route to HOLTZ, Thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000, then via 218° track to cross WEILR at or below 5000, then via depicted route to HOLTZ, Thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000, then via 219° track to cross ADORE at or below 5000, then via depicted route to HOLTZ, Thence....

..... via THERMAL TRANSITION. Expect further clearance to filed altitude three minutes after departure.

THERMAL TRANSITION (HOLTZ9.TRM)

LOC/DME I-UWU	APP CRS	Rwy Idg 6L	8925	Rwy Idg 6R	9954
108.5	069°	TDZE	117	TDZE	114
Chan 22		Apt Elev	126	Apt Elev	126

ILS or LOC RWY 6L

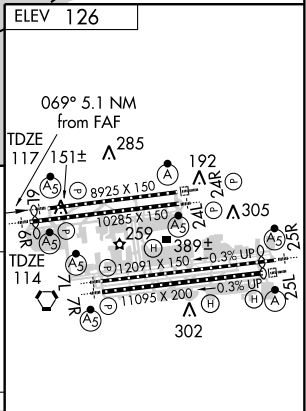
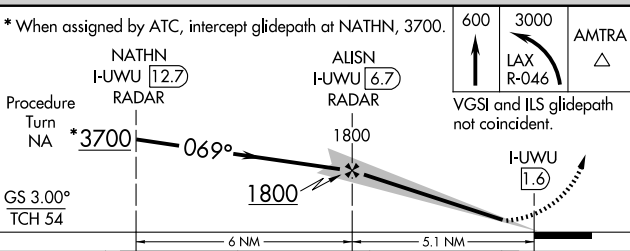
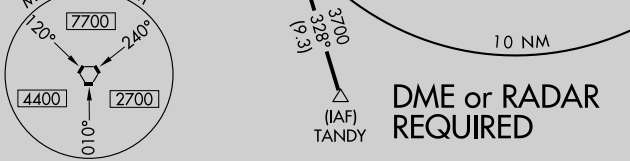
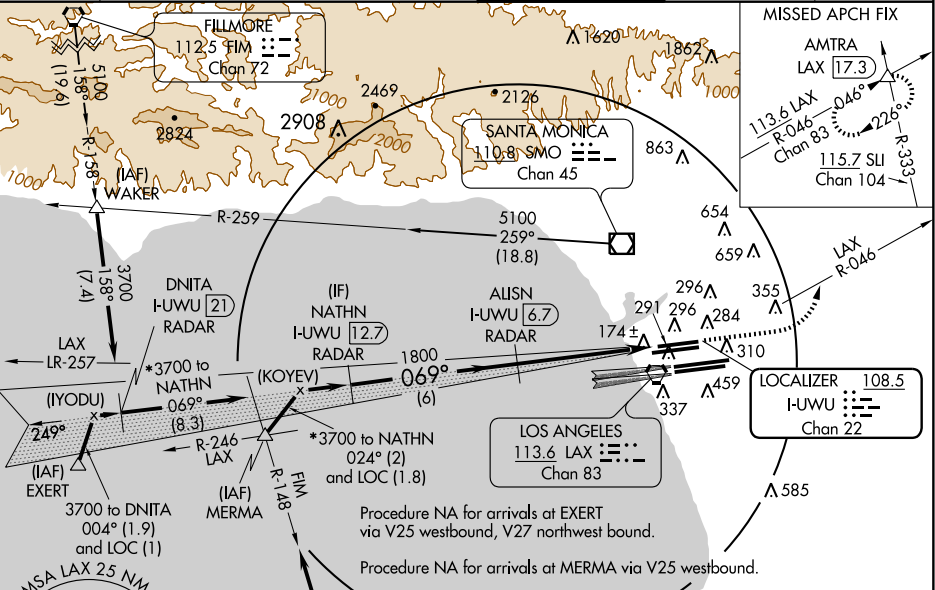
LOS ANGELES INTL (LAX)

Simultaneous approach authorized with Rwy 7L/R.
LOC procedure NA during simultaneous operations.
Inoperative table does not apply to S-ILS 6L and S-LOC 6L all Cats, Sidestep 6R Cats A/B.
For inoperative MALSR, increase Sidestep 6R Cat C visibility to 1½ mile and Cat D to 2 miles. Visibility reduction by helicopters NA.

MALSR
Rwys
6L and 6R

MISSED APPROACH: Climb to 600 then climbing left turn to 3000 via LAX VORTAC R-046 to AMTRA INT/LAX 17.3 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



CATEGORY	A	B	C	D	TDZ/CL Rwys 6R, 7L, 24R, and 25L
S-ILS 6L		367/50	250 (300-1)		HIRL all Rwys
S-LOC 6L		440/50	323 (400-1)		
SIDESTEP RWY 6R		440/60	326 (400-1½)	440-1¾ 326 (400-1¾)	FAF to MAP 5.1 NM
				Knots	60 90 120 150 180
				Min:Sec	5:06 3:24 2:33 2:02 1:42

SW-3. 14 JAN 2010 to 11 FEB 2010

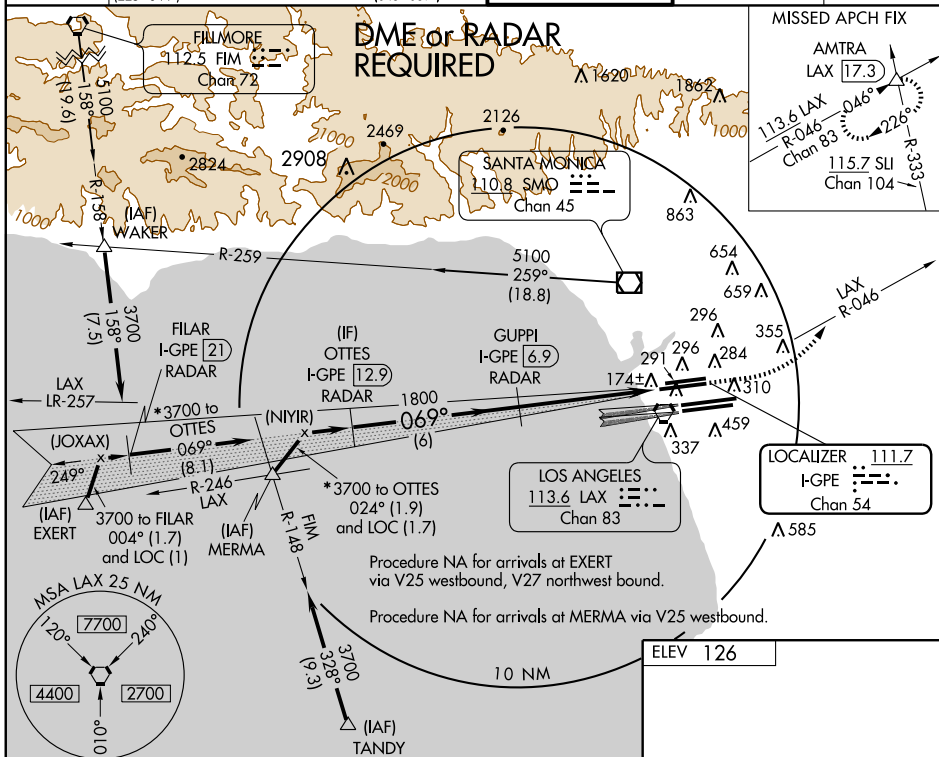
LOC/DME I-GPE	APP CRS	Rwy Idg 6R	9954	Rwy Idg 6L	8925
111.7	069°	TDZE	114	TDZE	117
Chan 54		Apt Elev	126	Apt Elev	126

ILS or LOC RWY 6R

LOS ANGELES INTL (LAX)

▼ Inoperative table does not apply to Sidestep Rwy 6L Cats A and B. Simultaneous approach authorized with Rwy 7L/R. LOC procedure NA during simultaneous operations.		MALSR Rwy 6R 	MALSR Rwy 6L 	MISSED APPROACH: Climb to 600 then climbing left turn to 3000 via LAX VORTAC R-046 to AMTRA INT/LAX 17.3 DME and hold.
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ATIS 124.3 363.2 ARR 133.8 DEP 135.65 (APCH FM WEST) (225°-044°)	SOCAL APP CON 124.9 269.0 128.5 360.7 (090°-224°) (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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* When assigned by ATC, intercept glidepath at OTTES, 3700.				600 3000 AMTRA LAX R-046
Procedure Turn NA GS 3.00° TCH 43	OTTES I-GPE 12.9 RADAR *3700 069° 1800	GUPPI I-GPE 6.9 RADAR 1800 069° 1800	VGSI and ILS glidepath not coincident. I-GPE 2.7 I-GPE 1.8	TDZE 117 151± 285 192 305 389± 114 12091 X 150 11095 X 200 302 069° 5.1 NM from FAF
CATEGORY S-ILS 6R S-LOC 6R SIDESTEP RWY 6L	A 314/18 460/24 460/50	B 200 (200-½) 346 (400-½) 343 (400-1)	C 42 NM 460/40 346 (400-¾) 460-1½ 343 (400-1½)	D 0.9 TDZ/CL Rwy 6R, 7L, 24R, and 25L HIRL all Rwy FAF to MAP 5.1 NM Knots 60 90 120 150 180 Min:Sec 5:06 3:24 2:33 2:02 1:42

LOC/DME I-AS	APP CRS	Rwy Idg 7L	12091	Rwy Idg 7R	11095
111.1	069°	TDZE	126	TDZE	125
Chan 48		Apt Elev	126	Apt Elev	126

ILS or LOC RWY 7L

LOS ANGELES INTL (LAX)

▼

Inoperative table does not apply to Sidestep Rwy 7R Cats. A and B.
Simultaneous approach authorized with Rwy 6L/R.
LOC procedure NA during simultaneous operations.

MALSR

Rwy 7L

MALSR

Rwy 7R

MISSED APPROACH: Climb to 3000 via LAX VORTAC R-068 to DOWNE INT/ LAX 15.5 DME/RADAR and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(ARCH FM WEST)	(090°-224°)	(090°-224°)	N 133.9 239.3	N 121.65 327.0	121.4 327.0
DEP 135.65	124.5 235.975	(045°-089°)	128.5 360.7	S 120.95 379.1	S 121.75 327.0	
	(225°-044°)					

Procedure NA for arrivals at EXERT via V25 westbound, V27 northwest bound.
Procedure NA for arrivals at MERMA via V25 westbound.

*When assigned by ATC, intercept glidepath at, 3000.

CATEGORY	A	B	C	D
S-ILS 7L	327/18 201 (300-1/2)			
S-LOC 7L	520/24 394 (400-1/2)		520/40 394 (400-3/4)	
SIDESTEP RWY 7R	520/50 395 (400-1)		520-1 1/2 395 (400-1 1/2)	

SW-3. 14 JAN 2010 to 11 FEB 2010

ILS or LOC RWY 7R
LOS ANGELES INTL (LAX)

MALSR
Rwys
7R and 7L

MISSED APPROACH: Climb to 3000
via LAX VORTAC R-068 to DOWNE
INT/LAX 15.5 DME/RADAR and hold.

SW-3. 14 JAN 2010 to 11 FEB 2010

CATEGORY	A	B	C	D
S-ILS 7R	325/24 200 (200-½)			
S-LOC 7R	460/24	335 (400-½)		460/40 335 (400-¾)
SIDESTEP RWY 7L	520/50	395 (400-1)		520-1½ 395 (400-1½)

LOC/DME I-HQB	APP CRS	Rwy Idg 24L	Rwy Idg 24R
111.7	249°	10285	8925
Chan 54		TDZE 121	TDZE 120
		Apt Elev 126	Apt Elev 126

ILS or LOC RWY 24L

LOS ANGELES INTL (LAX)

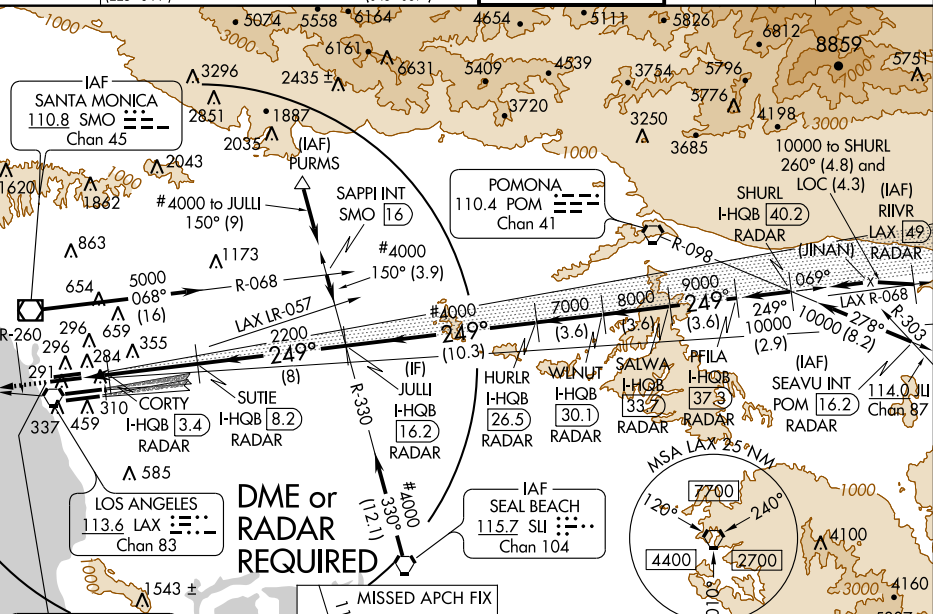
Simultaneous approach authorized with Rwy 25L/R.
LOC procedure NA during simultaneous operations.
Inoperative table does not apply to Sidestep Rwy 24R Cats. A/B.

MALSR Rwy 24L

ALSIF-2 Rwy 24R

MISSED APPROACH: Climb to 2000 via heading 249° and LAX VORTAC R-260 to RAFFS INT/LAX 15.1 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	N 133.9 239.3	GND CON	N 121.65 327.0	CLNC DEL	121.4 327.0
ARR 133.8	(APCH FM WEST)		(090°-224°)	S 120.95 379.1		S 121.75 327.0			
DEP 135.65	(225°-044°)		(045°-089°)						

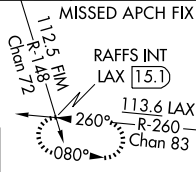
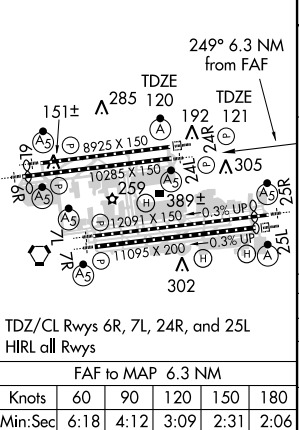


LOCALIZER **111.7**

I-HQB

Chan **54**

ELEV **126**



Procedure NA for arrivals at PURMS via V186 northwest bound.

Procedure NA for arrival on SLI VORTAC airway radials 272 CW 319.

Procedure NA for arrivals at SMO VOR/DME via V107 westbound.

2000	LAX R-260	RAFFS INT LAX 15.1	# When assigned by ATC, intercept glidepath at 4000. VGSI and ILS glidepath not coincident.	SUTIE I-HQB 8.2	JULI I-HQB 16.2	HURLR I-HQB 26.5	WNUT I-HQB 30.1	SALWA I-HQB 33.7	PFLA I-HQB 37.3
249°	113.6	15.1		8.2	16.2	26.5	30.1	33.7	37.3
* LOC only	CORTY I-HQB 3.4	SUTIE I-HQB 8.2	JULI I-HQB 16.2	HURLR I-HQB 26.5	WNUT I-HQB 30.1	SALWA I-HQB 33.7	PFLA I-HQB 37.3		
	1.9	8.2	16.2	26.5	30.1	33.7	37.3		
	I-HQB 2.9								
	2200	2200	4000#	7000	8000	9000	10000		
	580*	2200							
	1 NM 0.5	4.8 NM	8 NM	10.3 NM	3.6 NM	3.6 NM	3.6 NM		
CATEGORY	A	B	C	D					
S-ILS 24L		321/24	200 (200-1/2)						
S-LOC 24L		500/24	379 (400-1/2)					500/40	379 (400-3/4)
SIDESTEP RWY 24R		580/50	460 (500-1)					580-1 1/2	460 (500-1 1/2)

LOC/DME I-OSS 108.5 Chan 22	APP CRS 249°	Rwy Idg 24R 8925 TDZE 120 Apt Elev 126	Rwy Idg 24L 10285 TDZE 121 Apt Elev 126
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ILS or LOC RWY 24R

LOS ANGELES INTL (LAX)

⚠ Inoperative table does not apply to Sidestep Rwy 24L Cuts A/B. For inoperative MALSR, increase S-LOC Rwy 24R Cat D visibility to RVR 5000. LOC procedure NA during simultaneous operation. Simultaneous approach authorized with Rwy 25L/R.

ALSF-2 Rwy 24R
Ⓜ

MALSR Rwy 24L
Ⓜ

MISSED APPROACH: Climb to 2000 via heading 249° and LAX R-260 to RAFFS INT/ LAX 15.1 DME and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 [APCH FM WEST] 124.5 235.975 [225°-044°]	SOCAL APP CON 124.9 269.0 [090°-224°] 128.5 360.7 [045°-089°]	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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The map displays the Los Angeles area with various airports and navigation aids. Key locations include Santa Monica (SMO), Los Angeles (LAX), and several smaller airports like Palmdale (POM), Lancaster (LAN), and Burbank (BUR). It shows flight paths for Rwy 24R, Rwy 24L, and Rwy 25L. Navigation aids include VORTAC stations, DME, and radar. A large circle indicates the 15 NM radius from LAX. A note states 'DME or RADAR REQUIRED' for arrivals at LAX. A 'MISSED APCH FIX' is shown for Rwy 24R. A circular inset shows the MSA LAX 25 NM with altitudes 4400, 4200, and 7700.

ELEV 126

249° 6.3 NM from FAF

TDZE 120

151±

192

121

305

259

389±

0.3% UP

12091 X 150

11095 X 200

0.3% UP

302

TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

Rwy to MAP 6.3 NM

Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

2000

↑

249°

LAX R-260

113.6

RAFFS INT LAX 15.1

When assigned by ATC, intercept glidepath at 4000.

* LOC only

I-OSS 2

I-OSS 2.8

I-OSS 3.4

ARBIE I-OSS 3.4

JETSA I-OSS 8.2

MERCE I-OSS 16.2

PALAC I-OSS 26.3

BREEA I-OSS 30.1

DECOR I-OSS 37.3

SKOLL I-OSS 37.3

249° 10000

Procedure Turn NA

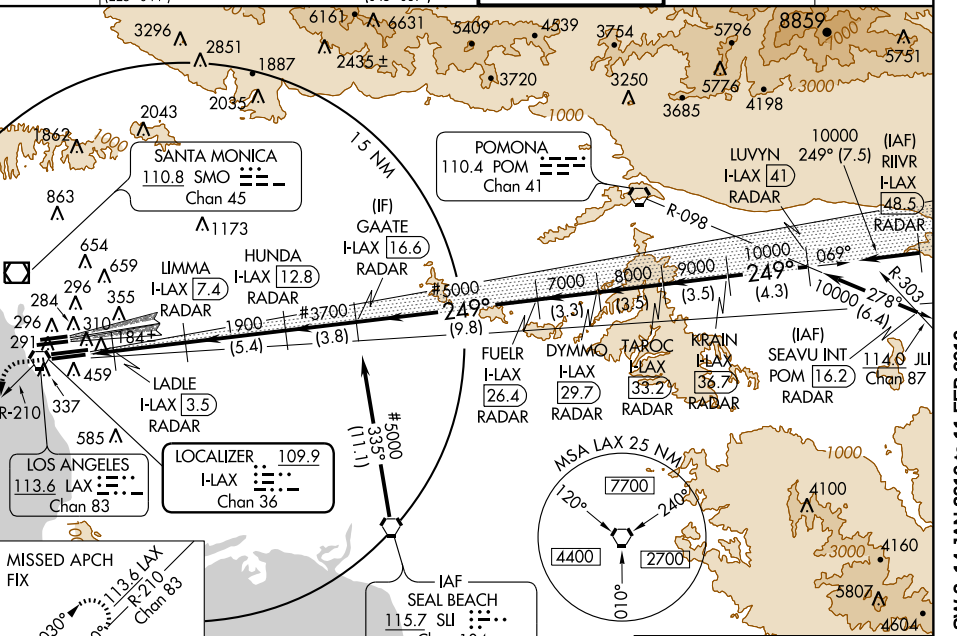
GS 3.00°

TCH 59

CATEGORY	A	B	C	D
S-ILS 24R	320/18 200 (200-½)			
S-LOC 24R	460/24 340 (400-½)			460/40 340 (400-¾)
SIDESTEP RWY 24L	580/50 459 (500-1)			580-1½ 459 (500-1½)

SW-3. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-LAX 109.9 Chan 36	APP CRS 249°	Rwy Idg 25L 11095 TDZE 104 Apt Elev 126	Rwy Idg 25R 11134 TDZE 102 Apt Elev 126	ILS or LOC RWY 25L LOS ANGELES INTL (LAX)	
Inoperative table does not apply to Sidestep Rwy 25R Cats. A and B. Simultaneous approach authorized with Rwy 24L/R. LOC procedure NA during simultaneous operations.				ALSF-2 Rwy 25L	MALSRS Rwy 25R
ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0



MISSED APCH FIX		Procedure NA for arrivals at SLI VORTAC via V459-597 southbound.		DME or RADAR REQUIRED	
800 ↑ 190°		LAX R-210 113.6	CATLY INT LAX 12.8	# When assigned by ATC, intercept glidepath at 3700 or 5000. *LOC only	
Procedure		UMMA	HUNDA	GAATE	FUELR
Turn		I-LAX	I-LAX	I-LAX	I-LAX
NA		LADLE	LADLE	LADLE	LADLE
I-LAX		3.5	7.4	16.6	26.4
RADAR		RADAR	RADAR	RADAR	RADAR
I-LAX		2	2	2	2
RADAR		RADAR	RADAR	RADAR	RADAR
1.5 NM		3.9 NM	5.4 NM	3.8 NM	9.8 NM
CATEGORY		A	B	C	D
S-ILS 25L		304/18 200 (200-1/2)		540/50	
S-LOC 25L		540/24 436 (500-1/2)		540/50	
SIDESTEP RWY 25R		620/50 518 (500-1)		620-1 1/2	
				518 (500-1 1/2)	
				GS 3.00°	
				TCH 56	
				TDZ/CL Rwy 6R, 7L, 24R, and 25L	
				HIRL all Rwy	
				FAF to MAP 5.4 NM	
				Knots	
				60 90 120 150 180	
				Min:Sec	
				5:24 3:36 2:42 2:10 1:48	

SW-3. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-FCN	APP CRS	Rwy Idg 25R	11134	Rwy Idg 25L	11095
111.1	249°	TDZE	102	TDZE	104
Chan 48		Apt Elev	126	Apt Elev	126

ILS or LOC RWY 25R

LOS ANGELES INTL (LAX)

Simultaneous approach authorized with Rwy 24L/R.
LOC procedure NA during simultaneous operations.
Inoperative table does not apply to Sidestep Rwy 25L Cat A/B.

**RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR
Rwy 25R

ALSIF-2
Rwy 25L

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 via heading 220° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			

MISSED APCH FIX

LOS ANGELES 113.6 LAX Chan 83

LOCALIZER 111.1 I-FCN Chan 48

Procedure NA for arrivals at SU VORTAC via V459-597 southeast bound.

DME or RADAR REQUIRED

800	2000	LAX	CATLY INT	# When assigned by ATC, intercept glidepath at 3700 or 5000.	LYCOM	BCOVE
↑	220°	R-210	LAX	Procedure Turn NA	MUSIK	JURPE
*LOC only		113.6	12.8		I-FCN 26.4	I-FCN 36.7
					RADAR	RADAR
					I-FCN 4.7	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
					I-FCN 12.8	I-FCN 3.3
					RADAR	RADAR
					I-FCN 16.6	I-FCN 12.8
					RADAR	RADAR
					I-FCN 7.4	I-FCN 3.3
					RADAR	RADAR
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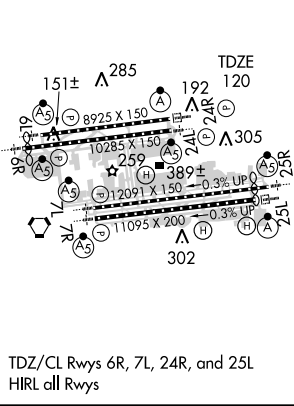
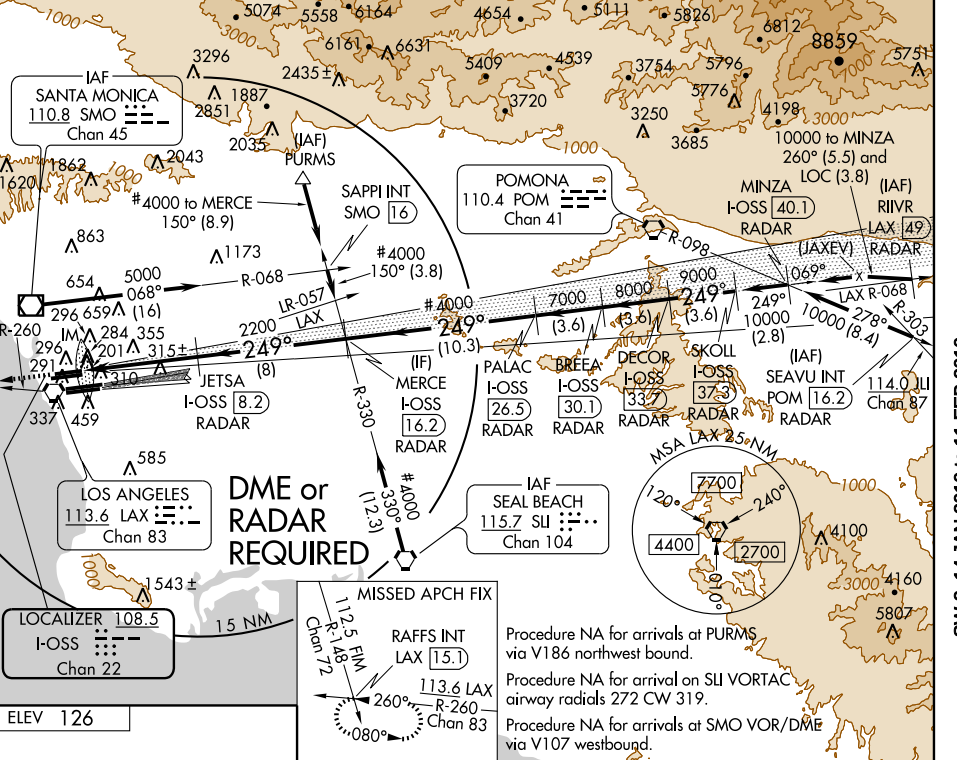
LOC/DME I-OSS	APP CRS	Rwy Idg	8925
108.5	249°	TDZE	120
Chan 22		Apt Elev	126

Simultaneous approach authorized with Rwy 25L/R.

ALSF-2

MISSED APPROACH: Climb to 2000 via heading 249° and LAX R-260 to RAFFS INT/LAX 15.1 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	[APCH FM WEST]		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		(045°-089°)	S 120.95 379.1	S 121.75 327.0	121.4 327.0



2000

LAX R-260 113.6

RAFFS INT LAX 15.1

When assigned by ATC, intercept glidepath at 4000.

JETSA I-OSS 8.2

MERCE I-OSS 16.2

PALAC I-OSS 26.5

BREEA I-OSS 30.1

DECOR I-OSS 33.7

SKOLL I-OSS 37.3

120 MSL

DH RA 115

IM

2200

4000#

7000

8000

9000

10000

Procedure Turn NA

GS 3.00°

TCH 59

CATEGORY	A	B	C	D
S-ILS 24R	RA 220/12	100	DA 115	

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-3. 14 JAN 2010 to 11 FEB 2010

ILS RWY 25L (CAT II)
LOS ANGELES INTL (LAX)



Simultaneous approach authorized with Rwy 24L/R.

ALSF-2



MISSED APPROACH: Climb to 800 then climbing left turn to 2000 via heading 190° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

The map displays the Los Angeles area with various airports and navigation aids. Key locations and their details include:

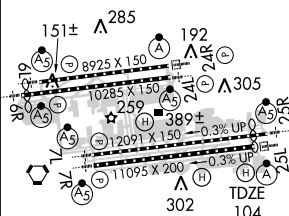
- Santa Monica (SMO):** 110.8 MHz, Chan 45, 15 NM from Los Angeles.
- Pomona (POM):** 110.4 MHz, Chan 41, 15 NM from Los Angeles.
- Los Angeles (LAX):** 113.6 MHz, Chan 83, 15 NM from Los Angeles.
- Seal Beach (SUI):** 115.7 MHz, Chan 83, 15 NM from Los Angeles.
- Localizer (LOC):** 109.9 MHz, Chan 36, 15 NM from Los Angeles.
- Missed Approach Fix (APCH):** 113.6 MHz, Chan 83, 15 NM from Los Angeles.
- Navigation Aids:** VORTAC, VORT, and VORT are shown with their respective frequencies and channels.
- Flight Paths:** Various flight paths are indicated with altitudes and distances, such as 10000, 8000, 7000, 6000, 5000, 4000, 3000, 2000, 1000, 500, and 0.

Procedure NA for arrivals at SLI VORTAC via V459-597 southbound.

DME or RADAR REQUIRED

800 ↑	2000 ↖ 190°	LAX R-210 113.6	CATLY INT LAX <u>12.8</u>	# When assigned by ATC, intercept glidepath at 3700 or 5000.						
Procedure Turn NA	DH RA 114	LIMMA I-LAX <u>7.4</u> RADAR	HUNDA I-LAX <u>12.8</u> RADAR	GAATE I-LAX <u>16.6</u> RADAR	FUELR I-LAX <u>26.4</u> RADAR	I-LAX <u>29.7</u> RADAR	TAROC I-LAX <u>33.2</u> RADAR	KRAIN I-LAX <u>36.7</u> RADAR	LUVYN I-LAX <u>41</u> RADAR	
104 MSL	1900	1900	3700#	5000#	7000	8000	9000	10000	249°-10000	
GS 3.00%	TCH 56'									
CATEGORY	A	B	C	D						
	—1001	939	5.2 NM	—5.4 NM	3.8 NM	9.8 NM	3.3 NM	3.5 NM	3.5 NM	—4.3 NM—

ELEV 126



CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HRL all Rwy's

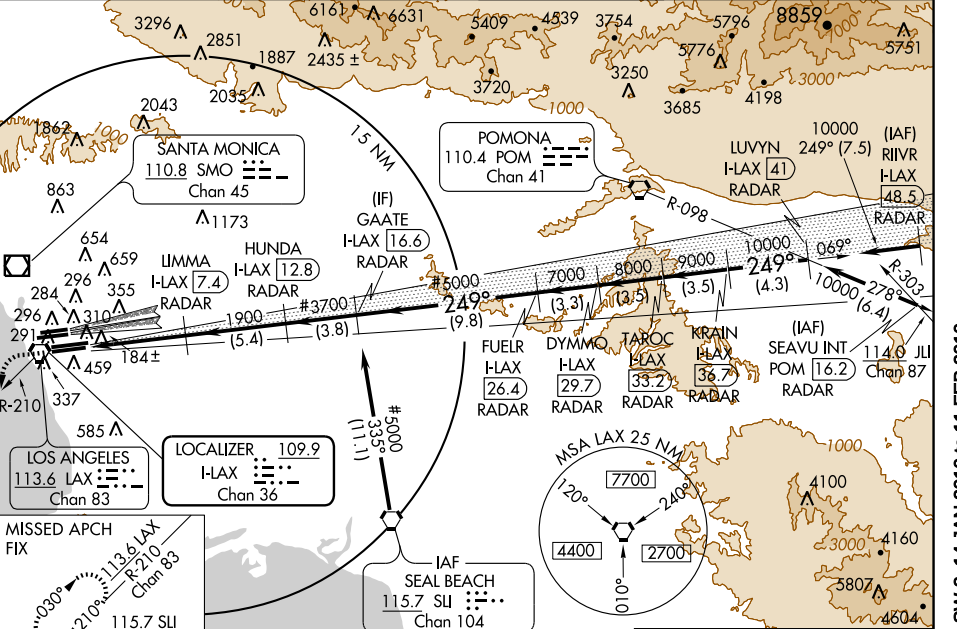
LOC/DME I-LAX	APP CRS	Rwy Idg	11095
109.9	249°	TDZE	104
Chan 36		Apt Elev	126

Simultaneous approach authorized with Rwy 24L/R.

ALSF-2

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 via heading 190° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(ARCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



MISSED APCH FIX

113.6 LAX
Chan 83

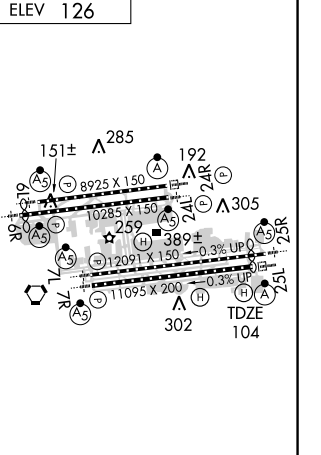
115.7 SU
R-255
Chan 104

CATLY INT
LAX [12.8]

Procedure NA for arrivals at SU VORTAC via V459-597 southbound.

DME or RADAR REQUIRED

800	2000	LAX	CATLY INT	# When assigned by ATC, intercept glidepath at 3700 or 5000.			
↑	190°	R-210	LAX				
		113.6	[12.8]				
Procedure Turn NA		LIMMA I-LAX [7.4] RADAR	HUNDA I-LAX [12.8] RADAR	GAATE I-LAX [16.6] RADAR	FUELR I-LAX [26.4] RADAR	DYMMO I-LAX [29.7] RADAR	TAROC I-LAX [33.2] RADAR
104 MS�		1900	3700#	5000#	7000	8000	9000
		1900					
		5.4 NM	5.4 NM	3.8 NM	9.8 NM	3.3 NM	3.5 NM
CATEGORY	A	B	C	D			
S-ILS 25L		CAT IIIa	RVR 07				
S-ILS 25L		CAT IIIb	RVR 06				
S-ILS 25L		CAT IIIc	NA				



CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

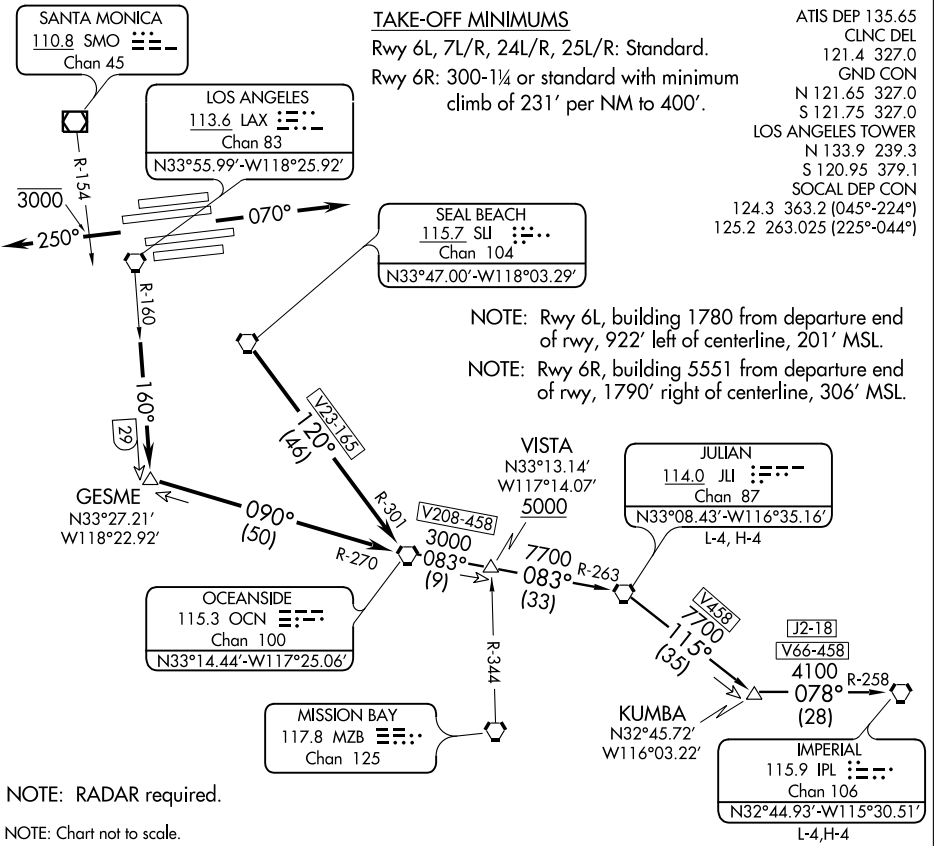
TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

SW-3. 14 JAN 2010 to 11 FEB 2010

IMPER ONE DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to SLI VORTAC, then via SLI R-120 and OCN R-301 to OCN VORTAC. Thence. . .

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000. Then via radar vectors to join LAX R-160 to GESME INT. Then via OCN R-270 to OCN VORTAC. Thence. . .

. . . via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

IMPERIAL TRANSITION (IMPER1.IPL): From over OCN VORTAC via OCN R-083 and JULI R-263 to JULI VORTAC. Then via JULI R-115 and IPL R-258 to IPL VORTAC.

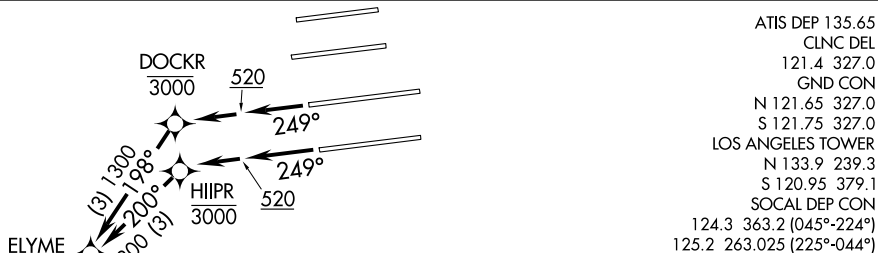
JULIAN TRANSITION (IMPER1.JLI): From over OCN VORTAC via OCN R-083 and JULI R-263 to JULI VORTAC.

JEDDD ONE DEPARTURE (RNAV)

SL-237 (FAA)

LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA

TAKE-OFF OBSTACLE NOTES

Rwy 25L: Tree 2379' from DER, 778' left of centerline, 100' AGL/197' MSL.
Pole 2366' from DER, 765' left of centerline, 100' AGL/184' MSL.
Multiple towers beginning 2800' from DER, 927' left of centerline, up to 82' AGL/192' MSL.
Bush 133' from DER, 397' left of centerline, 20' AGL/123' MSL.

TAKE-OFF MINIMUMS

Rwys 6L, 6R, 7L, 7R, 24L, 24R, NA - ATC.
Rwys 25L, 25R, Standard. ATC climb of 400 feet per NM to 520.

NOTE: Chart not to scale.

NOTE: RNAV 1

NOTE: DME/DME/IRU or GPS required.

NOTE: Turboprop aircraft only.

NOTE: RADAR required.

NOTE: MZB and OCN TRANSITIONS - for non-GPS equipped aircraft departing Rwy 25R or 25L, SLI must be operational.

NOTE: Some departures can expect radar vector to JEDDD, SLI VORTAC or BUOYE.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25L: Climb heading 249° to 520, then direct to cross HIIPR at or below 3000, then via 200° track to cross ELYME at or below 5000, then via depicted route to JEDDD, thence. . . .

TAKE-OFF RUNWAY 25R: Climb heading 249° to 520, then direct to cross DOCKR at or below 3000, then via 198° track to cross ELYME at or below 5000, then via depicted route to JEDDD, thence. . . .

. . . .(TRANSITION): expect further clearance to filed altitude three minutes after departure.

COREL TRANSITION (JEDDD1.COREL)

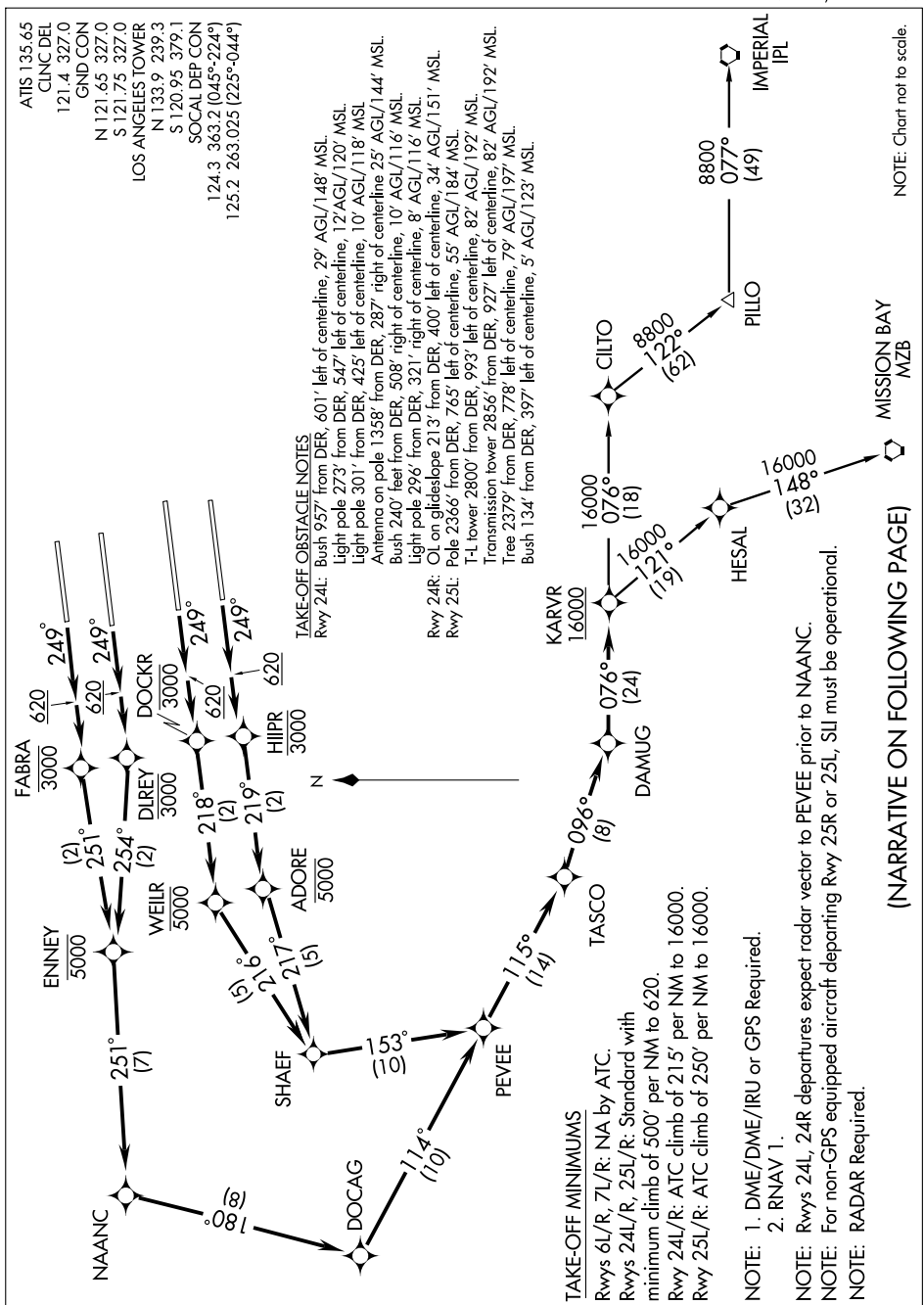
MISSION BAY TRANSITION (JEDDD1.MZB)

OCEANSIDE TRANSITION (JEDDD1.OCN)

SEAL BEACH TRANSITION (JEDDD1.SLI)

KARVR THREE DEPARTURE (RNAV) SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000, then via 251° track to cross ENNEY at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000, then via 254° track to cross ENNEY at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000, then via 218° track to cross WEILR at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000, then via 219° track to cross ADORE at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

..... via TRANSITION. Expect further clearance to filed altitude five minutes after departure.

IMPERIAL TRANSITION (KARVR3.IPL)

MISSION BAY TRANSITION (KARVR3.MZB)

LOS ANGELES, CALIFORNIA

SW-3. 14 JAN 2010 to 11 FEB 2010

ARRIVAL ROUTE DESCRIPTION

LAKE HUGHES TRANSITION (LHS.KIMMO2): From over LHS VORTAC via LHS R-139 to DARTS INT. Thence....

PALMDALE TRANSITION (PMD.KIMMO2): From over PMD VORTAC via PMD R-218 to KIMMO INT, then via LHS R-139 to DARTS INT. Thence....

SHAFTER TRANSITION (EHF.KIMMO2): From over EHF VORTAC via EHF R-123 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

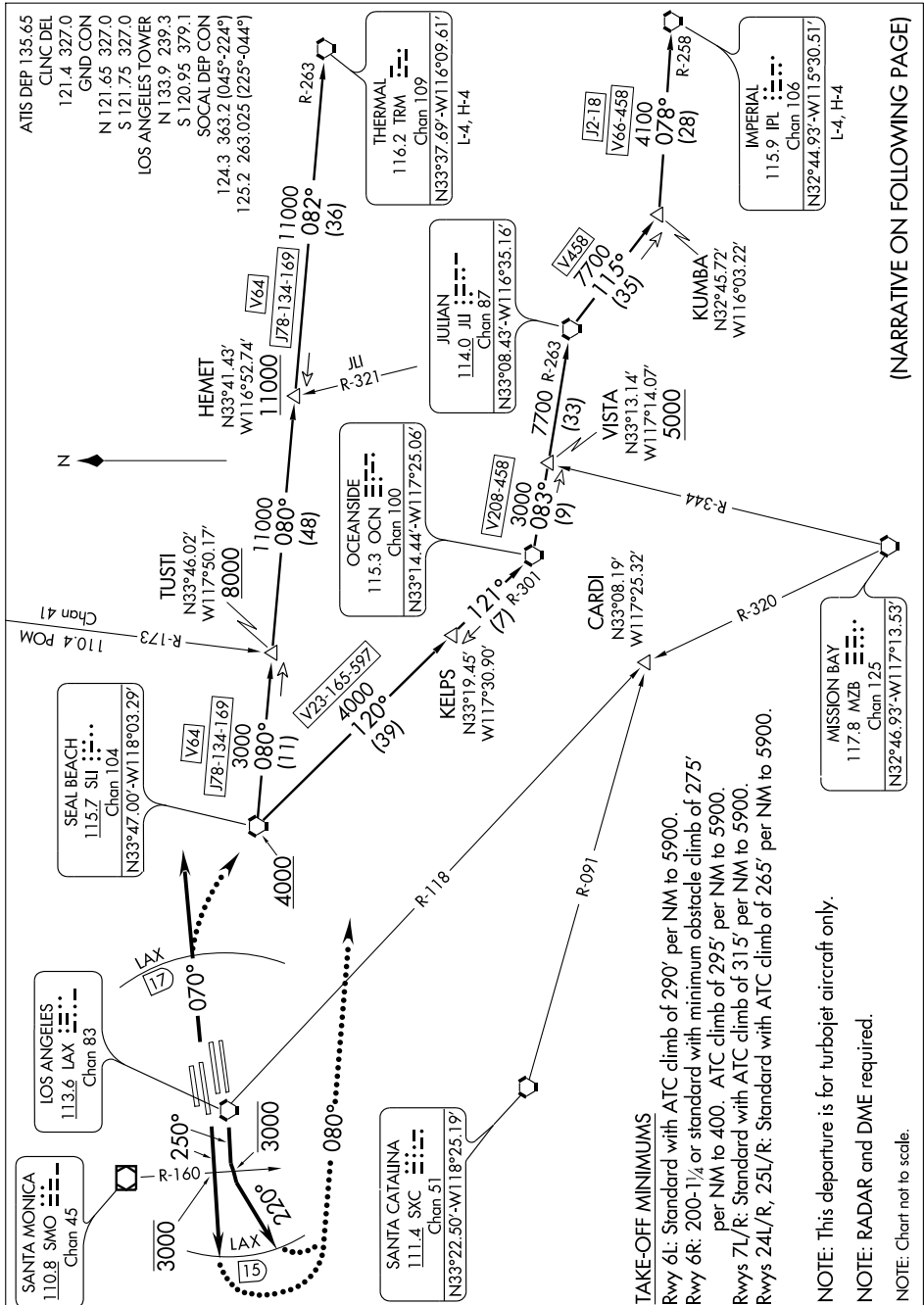
TULE TRANSITION (TTE.KIMMO2): From over TTE VOR/DME via TTE R-147 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

....LANDING LOS ANGELES INTL: From over DARTS INT via VNY R-095 to PURMS INT. Expect radar vectors to final approach course.

....LANDING SANTA MONICA MUNI: From over DARTS INT expect radar vectors to final approach course.

LAXX SIX DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 24L/R: Climb heading 250° to cross SMO R-160 at or below 3000, then via radar vectors to assigned route/fix/transition. Thence....

TAKE-OFF RUNWAYS 25L/R: Climb heading 250° to cross SMO R-160 at or below 3000, then via heading 220° for radar vectors to assigned route/fix/transition. Thence....

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb heading 070° for vectors to SLI VORTAC. Thence....

....all aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS:

RUNWAYS 24L/R, 25L/R: If not in contact with departure control by 15 DME west of LAX VORTAC, then turn left heading 080°, climb to FL230 or filed altitude whichever is lower, and when able proceed direct filed or assigned route. Aircraft filed FL240 or above, maintain FL230 for five minutes then continue climb to filed altitude.

RUNWAYS 6L/R, 7 L/R: If not in contact with departure control by 17 DME east of LAX VORTAC, climb to FL230 or filed altitude whichever is lower, turn right direct SLI and proceed via assigned route. Aircraft filed FL240 or above, maintain FL230 for five minutes then continue climb to filed altitude.

THERMAL TRANSITION (LAXX6.TRM): From over SLI VORTAC via SLI R-080 and TRM R-263 to TRM VORTAC.

IMPERIAL TRANSITION (LAXX6.IPL): From over SLI VORTAC via SLI R-120 and OCN R-301 to OCN VORTAC, then via OCN R-083 and JLI R-263 to JLI VORTAC, then via JLI R-115 and IPL R-258 to IPL VORTAC.

TAKE-OFF OBSTACLE NOTES:

RWY 6L: Buildings and signs beginning 1693' from DER, 339' left of centerline, up to 50' AGL/201' MSL.

RWY 6R: Antenna on building 560' from DER, 479' right of centerline, 18' AGL/127' MSL.

OL on building 5550' from DER, 1791' right of centerline, 202' AGL/306' MSL.

OL on sign and sign beginning 1866' from DER, 920' left of centerline, up to 49' AGL/161' MSL.

RWY 7L: OL on blast fence 168' from DER, 33' left of centerline, 14' AGL/106' MSL.

Poles beginning 1290' from DER, 505' left of centerline, up to 55' AGL/147' MSL.

Antenna on building 1576' from DER, 315' left of centerline, 55' AGL/147' MSL.

Sign and railroad beginning 351' from DER, 10' left of centerline, up to 29' AGL/124' MSL.

Railroad 275' from DER, 500' right of centerline, 23' AGL/115' MSL.

App light and OL on LOC beginning 979' from DER, on rwy centerline, up to 27' AGL/119' MSL.

RWY 7R: Trees and building beginning 790' from DER, 606' right of centerline, up to 58' AGL/157' MSL.

RWY 24L: Bush 956' from DER, 600' left of centerline, 40' AGL/148' MSL.

Light poles beginning 273' from DER, 425' left of centerline, up to 10' AGL/120' MSL.

Antenna on pole 1357' from DER, 286' right of centerline, 36' AGL/144' MSL.

Light poles and bushes beginning 239' from DER, 321' right of centerline, up to 8' AGL/116' MSL.

RWY 24R: OL on GS, 212' from DER, 399' left of centerline, 39' AGL/151' MSL.

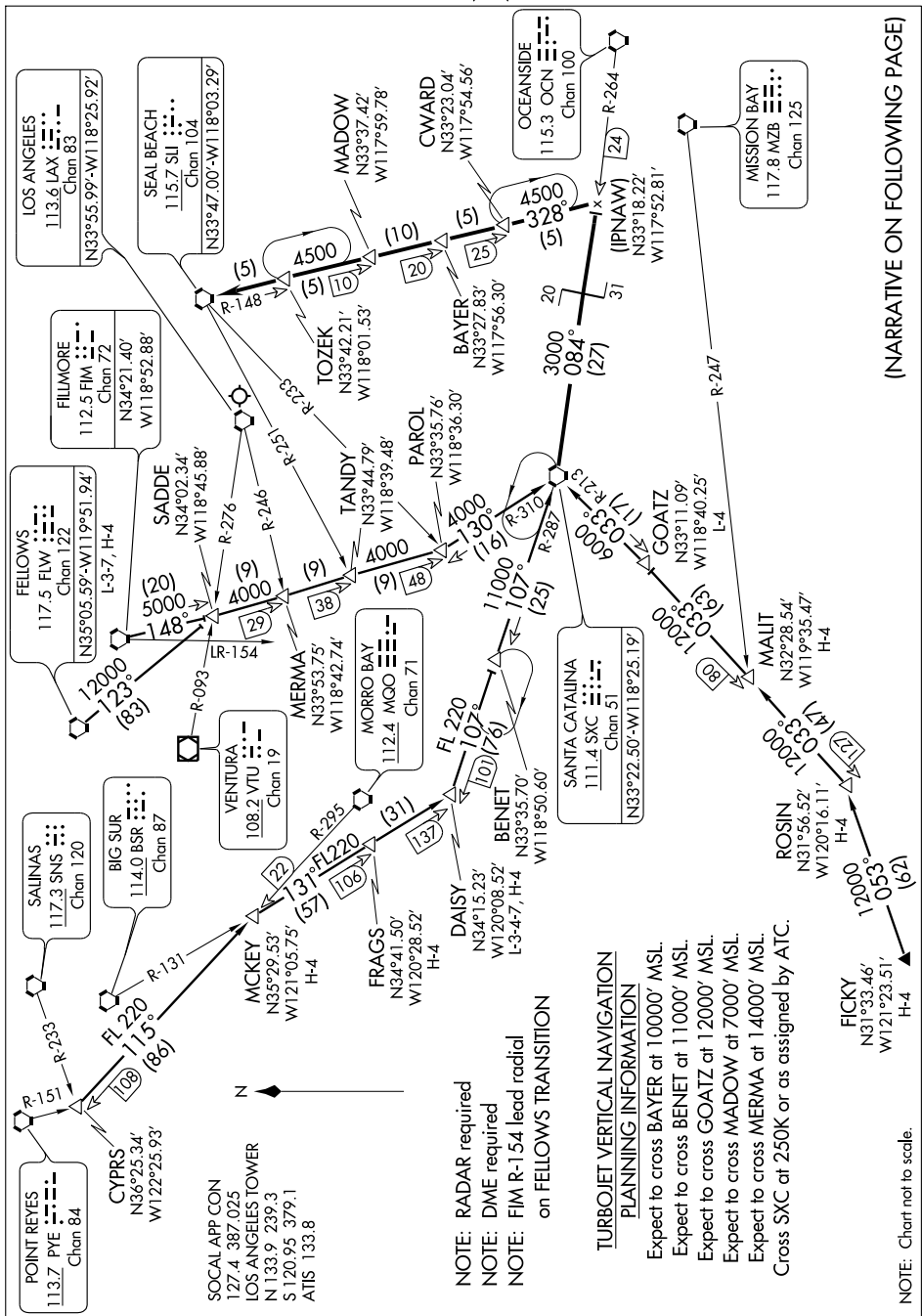
RWY 25L: Tree and pole beginning 2366' from DER, 764' left of centerline, up to 80' AGL/197' MSL.

Trmsn towers beginning 2800' from DER, 926' left of centerline, up to 71' AGL/192' MSL.

Bush 133' from DER, 397' left of centerline, 4' AGL/123' MSL.

LEENA FOUR ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

ARRIVAL DESCRIPTION

CYPRS TRANSITION (CYPRS.LEENA4): From over CYPRS INT via MQO R-295 to MCKEY INT, then via BSR R-131 to DAISY INT, and SXC R-287 to SXC VORTAC. Thence....

DAISY TRANSITION (DAISY.LEENA4): From over DAISY INT via SXC R-287 to SXC VORTAC. Thence....

FELLOWS TRANSITION (FLW.LEENA4): From over FLW VORTAC via FLW R-123 to SADDE INT, then via FIM R-148 to PAROL INT, and SXC R-310 to SXC VORTAC. Thence....

FICKY TRANSITION (FICKY.LEENA4): From over FICKY direct ROSIN DME, then via SXC R-213 to SXC VORTAC. Thence....

FILLMORE TRANSITION (FIM.LEENA4): From over FIM VORTAC via FIM R-148 to PAROL INT, then via SXC R-310 to SXC VORTAC. Thence....

FRAGS TRANSITION (FRAGS.LEENA4): From over FRAGS INT via BSR R-131 to DAISY INT, and SXC R-287 to SXC VORTAC. Thence....

GOATZ TRANSITION (GOATZ.LEENA4): From over GOATZ DME via SXC R-213 to SXC VORTAC. Thence....

MALIT TRANSITION (MALIT.LEENA4): From over MALIT DME via SXC R-213 to SXC VORTAC. Thence....

MCKEY TRANSITION (MCKEY.LEENA4): From over MCKEY INT via BSR R-131 to DAISY INT, and SXC R-287 to SXC VORTAC. Thence....

ROSIN TRANSITION (ROSIN.LEENA4): From over ROSIN DME via SXC R-213 to SXC VORTAC. Thence....

....From over SXC VORTAC via SXC R-084 and OCN R-264 to (IPNAW) to intercept the SLI R-148 to CWARD INT. From CWARD INT via SLI R-148 to SLI VORTAC. Expect radar vectors to ILS approach for Rwy 25L.

LOOP FOUR DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS DEP 135.65

CLNC DEL

121.4 327.0

GND CON

N 121.65 327.0

S 121.75 327.0

LOS ANGELES TOWER

N 133.9 239.3

S 120.95 379.1

SOCAL DEP CON

124.3 363.2 (045°-224°)

125.2 263.025 (225°-044°)

TAKE-OFF MINIMUMS

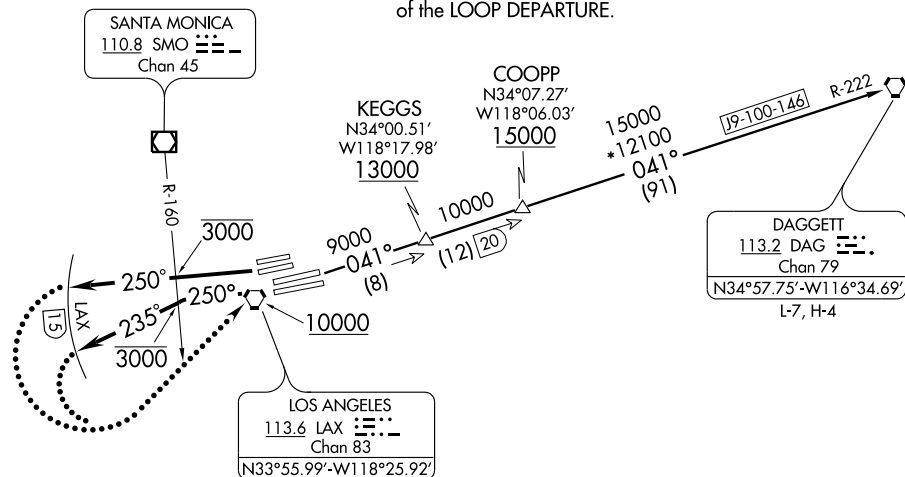
Rwys 24L/R, 25L/R: Standard.

Rwys 6L/R, 7L/R: NA- Air Traffic.

NOTE: RADAR and DME Required.

NOTE: ATC minimum climb of 500' per NM to 10,000 required. If unable, use LAXX DEPARTURE.

NOTE: Use LAXX DEPARTURE, DAGGETT TRANSITION, during the period 2100-0700 local time in lieu of the LOOP DEPARTURE.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

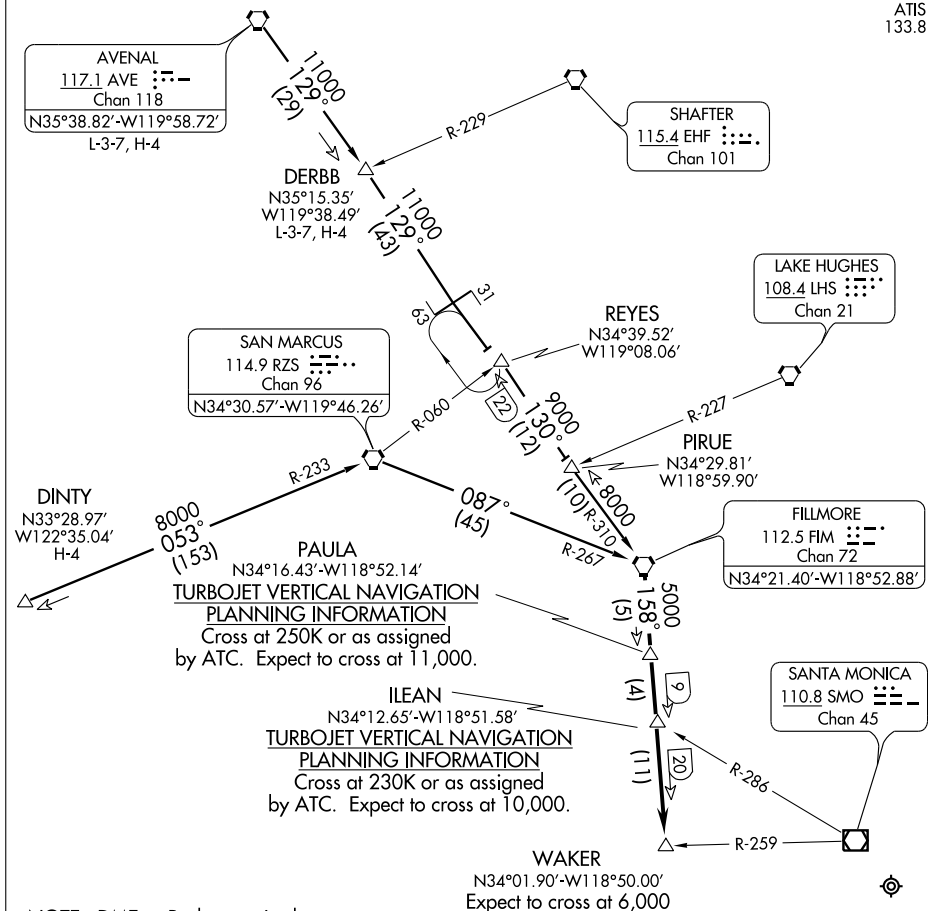
TAKE-OFF RUNWAYS 24L/R: Climb via heading 250° to cross SMO R-160 at or below 3000, then via radar vectors to LAX VORTAC. Expect left turn direct LAX VORTAC. Thence....

TAKE-OFF RUNWAYS 25L/R: Climb via heading 250° to cross SMO R-160 at or below 3000, then turn left heading 235° for vector to LAX VORTAC. Expect left turn direct LAX VORTAC. Thence....

.... via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control by 1.5 DME west of LAX VORTAC, turn left and proceed direct LAX VORTAC, climb to FL230 or filed altitude whichever is lower, and when able proceed via filed or assigned route/fix/transition. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

DAGGETT TRANSITION (LOOP4.DAG): From over LAX VORTAC via LAX R-041 and DAG R-222 to DAG VORTAC.

SOCAL APP CON
124.5 235.975
ATIS
133.8

NOTE: DME or Radar required.

NOTE: Chart not to scale.

AVENAL TRANSITION (AVE.MOOR3): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.MOOR3): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DINTY TRANSITION (DINTY.MOOR3): From over DINTY INT via RZS R-233 to RZS VORTAC. Then via RZS R-087 and FIM R-267 to FIM VORTAC. Thence....

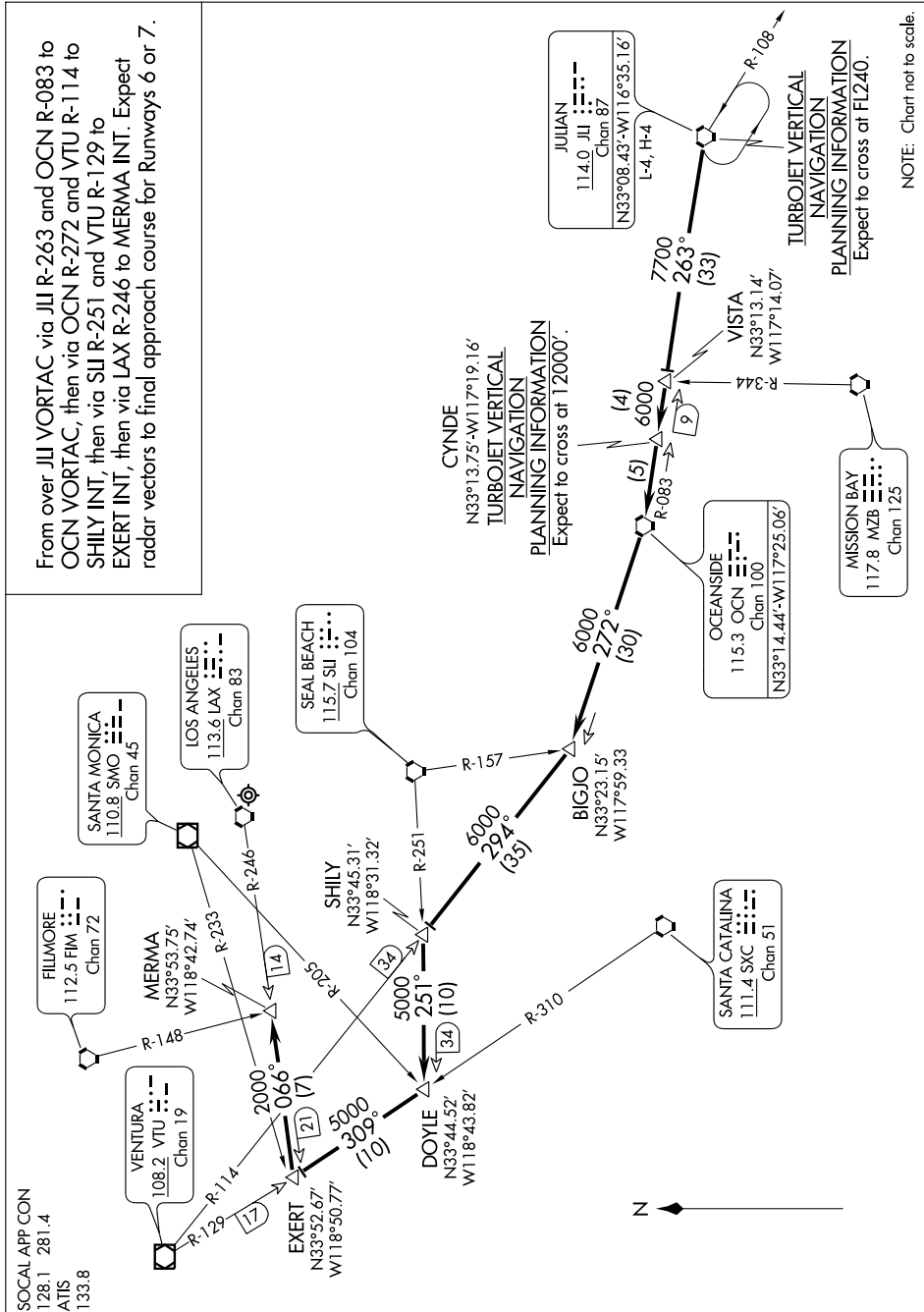
....From over FIM VORTAC via FIM R-158 to WAKER INT. For Runways 6L/R or 7L/R:
From WAKER INT expect vector to final approach course for LOS ANGELES INTERNATIONAL AIRPORT.

OCEAN TWO ARRIVAL

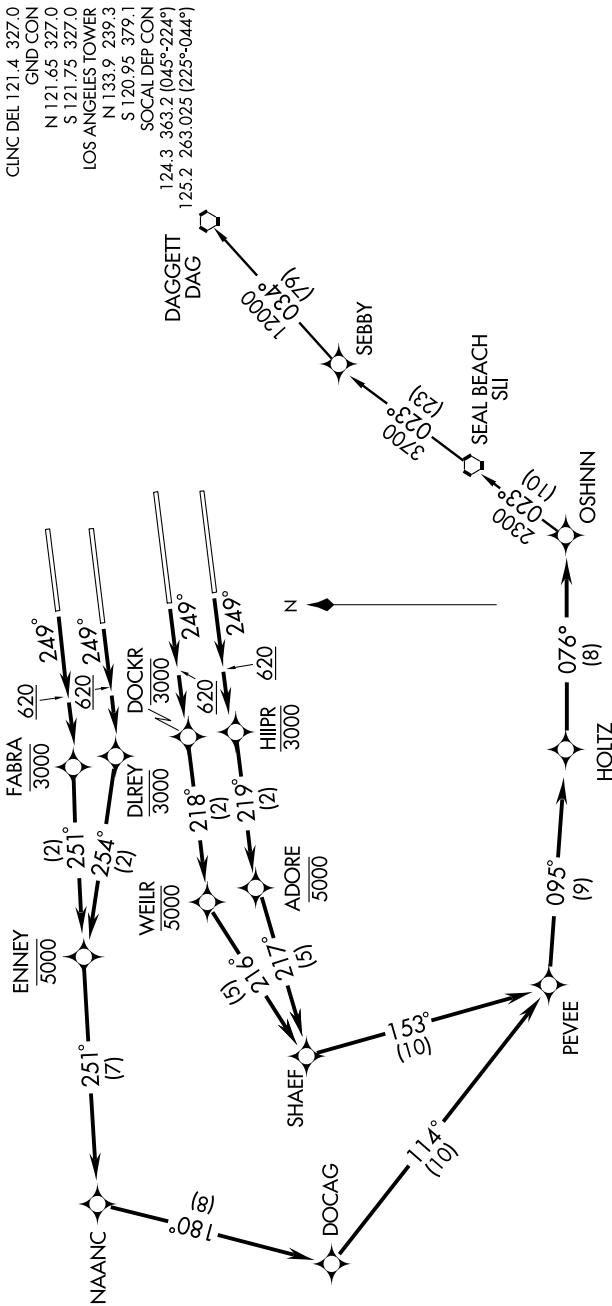
ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

From over JLI VORTAC via JLI R-263 and OCN R-083 to OCN VORTAC, then via OCN R-272 and VTU R-114 to SHILY INT, then via SJU R-251 and VTU R-129 to EXERT INT, then via LAX R-246 to MERMA INT. Expect radar vectors to final approach course for Runways 6 or 7.



NOTE: Chart not to scale.



TAKE-OFF MINIMUMS

Rwys 24L/R, 25L/R: Standard with minimum climb of 500' per NM to 620.
Rwys 6L/R, 7L/R: NA by ATC.

NOTE: 1. DME/DME/IRU or GPS Required.

2. RNAV 1.

NOTE: For non-GPS equipped aircraft departing Rwy 25R or 25L, SLI must be operational.

NOTE: Rwys 24L, 24R departure expect radar vector to PEVEE prior to NAANC.

NOTE: RADAR Required.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000, then via 251° track to cross ENNEY at or below 5000, then via depicted route to OSHNN, Thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000, then via 254° track to cross ENNEY at or below 5000, then via depicted route to OSHNN, Thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000, then via 218° track to cross WEILR at or below 5000, then via depicted route to OSHNN, Thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000, then via 219° track to cross ADORE at or below 5000, then via depicted route to OSHNN, Thence....

..... via DAGGETT TRANSITION. Expect further clearance to filed altitude five minutes after departure.

DAGGETT TRANSITION (OSHNN3.DAG)

PERCH NINE DEPARTURE

SL-237 (FAA)

ATIS DEP 135.65
CLNC DEL
121.4 327.0
GND CON
N 121.65 327.0
S 121.75 327.0
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TAKE-OFF MINIMUMS

Rwys 6L, 7L/R, 24L/R, 25L/R: Standard.

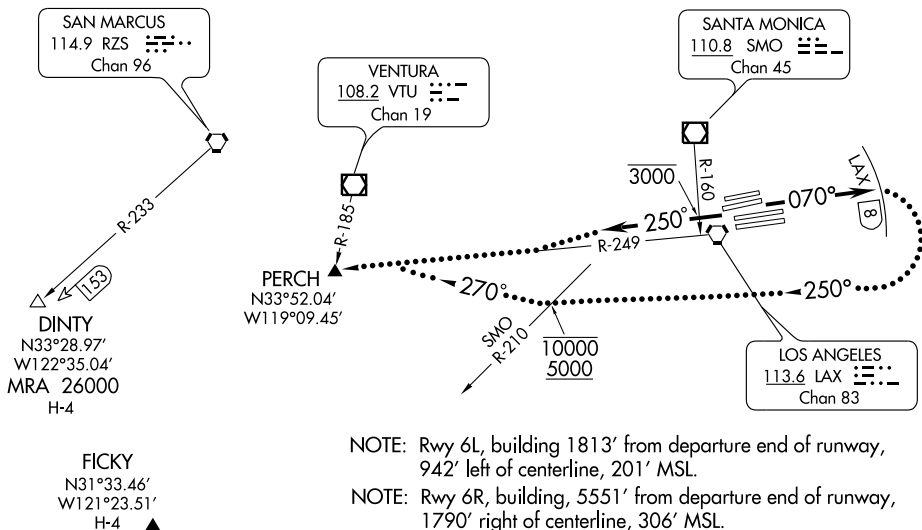
Rwy 6R: 300-1¼ or standard with minimum climb of 231' per NM to 400'.

NOTE: MRA DINTY DME FL 310 to receive LAX and RZS DME.

NOTE: RZS R-233/153 DME fix DINTY DME FIX MRA 26000.

NOTE: Route depicted is a LOST COMMUNICATION PROCEDURE ONLY.

NOTE: RADAR and DME required.



NOTE: Rwy 6L, building 1813' from departure end of runway, 942' left of centerline, 201' MSL.

NOTE: Rwy 6R, building, 5551' from departure end of runway, 1790' right of centerline, 306' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTIONTAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to DINTY INT or FICKY INT. Thence....TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-160 at or below 3000, then via radar vectors to DINTY INT or FICKY INT. Thence

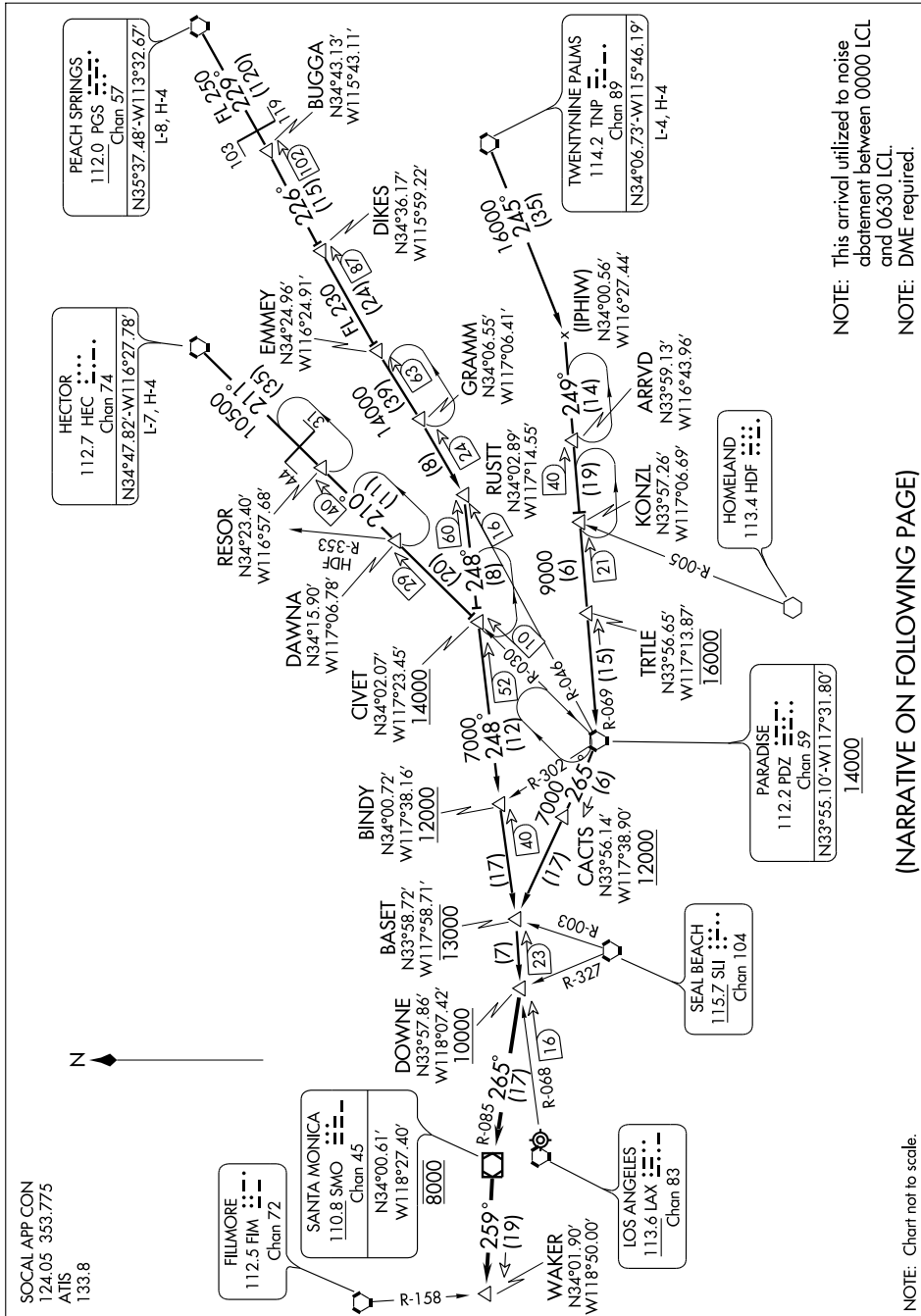
....via (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS:TAKE-OFF RUNWAYS 6L/R, 7L/R: If not in contact with Departure Control upon reaching LAX 8 DME, turn right heading 250°. Cross SMO R-210 at or above 5000' and at or below 10000'. After leaving 10000', turn right heading 270° to intercept and proceed via LAX R-249 to PERCH INT.TAKE-OFF RUNWAYS 24L/R, 25L/R: If not in contact with Departure Control within five minutes after departure, proceed to PERCH INT via LAX R-249.

Climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

REDEYE TWO ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.RDEYE2): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then LAX R-068 to DOWNE INT. Thence....

PEACH SPRINGS TRANSITION (PGS.RDEYE2): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then LAX R-068 to DOWNE INT. Thence....

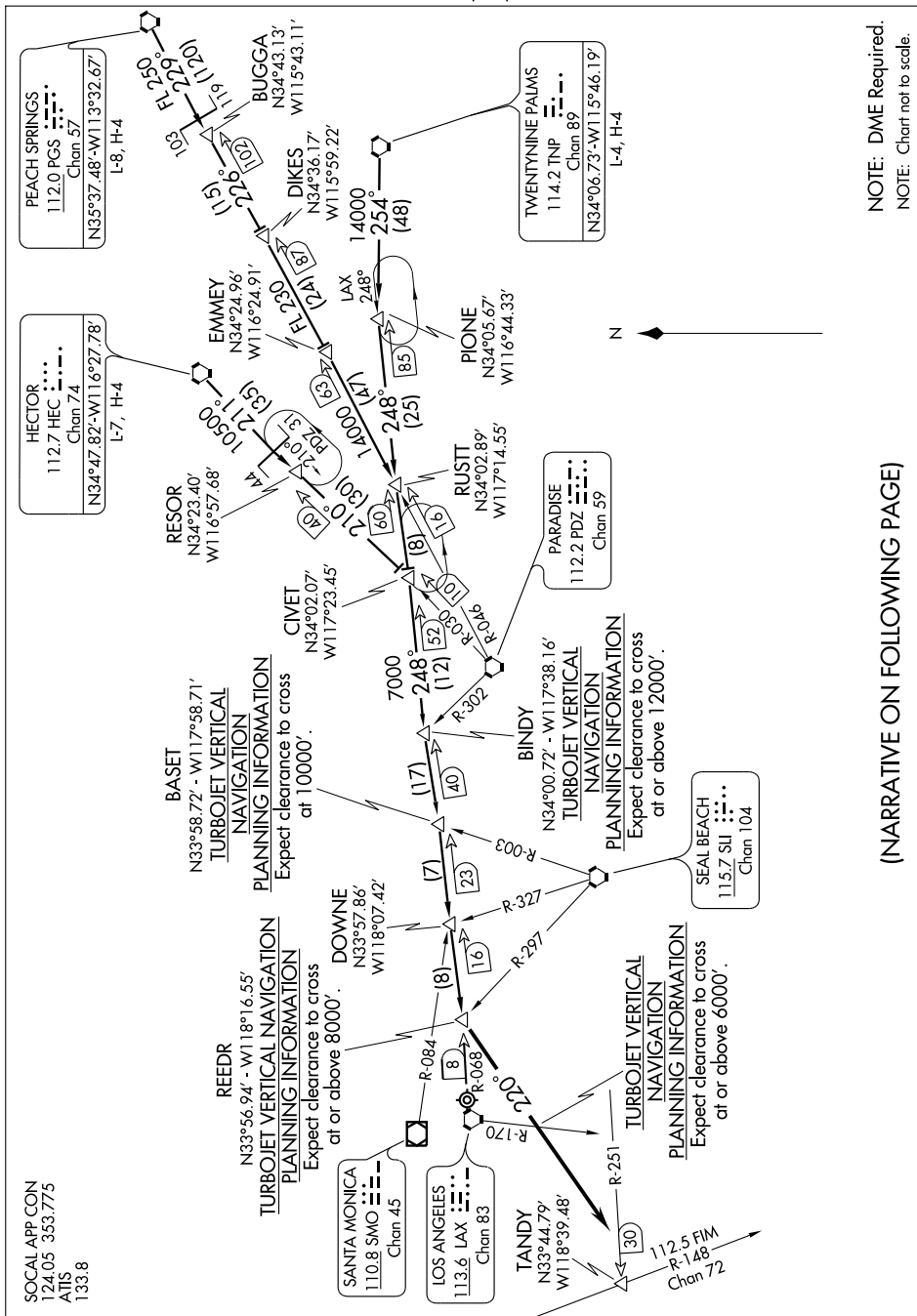
TWENTYNINE PALMS TRANSITION (TNP.RDEYE2): From over TNP VORTAC via TNP R-245 and PDZ R-069 to PDZ VORTAC, then PDZ R-265 to BASET INT, then LAX R-068 to DOWNE INT. Thence....

....From DOWNE INT via SMO R-085 to SMO VOR/DME, then via SMO R-259 to WAKER INT. Expect vector to final approach course for runways 6 and 7.

REEDR THREE ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA



NOTE: DME Required.

(NARRATIVE ON FOLLOWING PAGE)

SW-3. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.REEDR3): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then LAX R-068 to REEDR INT. Thence....

PEACH SPRINGS TRANSITION (PGS.REEDR3): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then LAX R-068 to REEDR INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.REEDR3): From over TNP VORTAC via TNP R-254 to PIONE INT, then LAX R-068 to REEDR INT. Thence....

....From over REEDR INT via heading 220° for radar vector to final approach course for Runways 6 or 7.

LOST COMMUNICATIONS: Depart REEDR INT heading 220° to intercept the SLI R-251 to TANDY INT/SLI 30 DME.

WAAS CH 82507 W06A	APP CRS 069°	Rwy Idg TDZE Apt Elev	8925 117 126
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RNAV (GPS) Y RWY 6L
LOS ANGELES INTL (LAX)

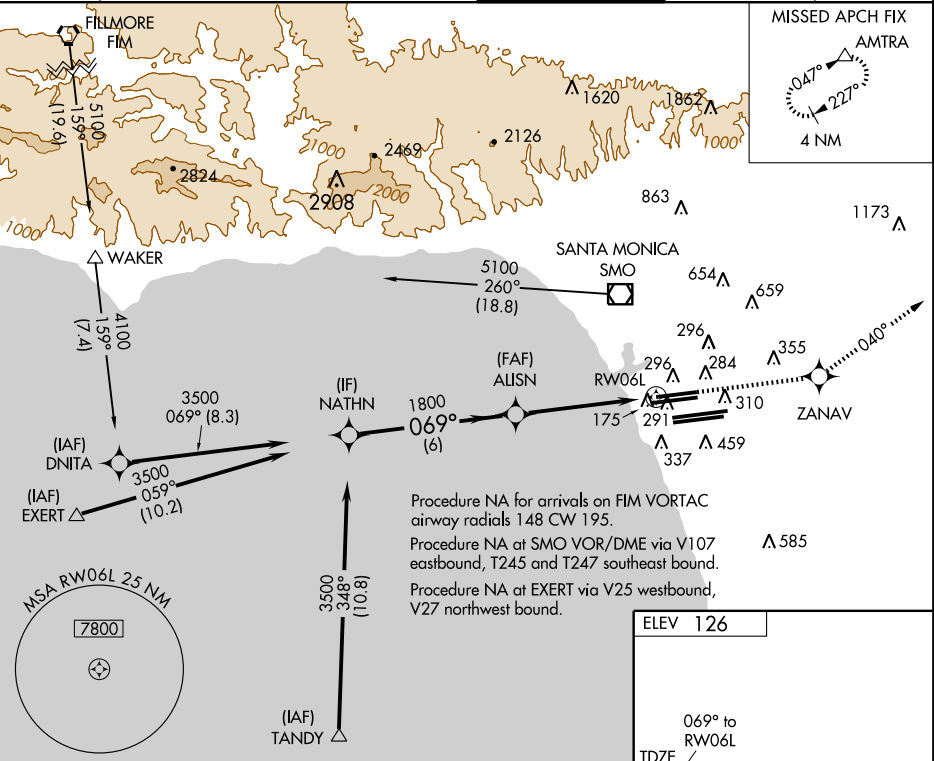
T Inoperative table does not apply to LPV, LNAV/VNAV, and LNAV Cat A and B.
W For inoperative MALS, increase LNAV Cat C and D visibility to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MALS R

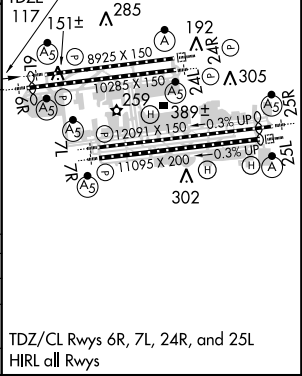


MISSED APPROACH: Climb to 3000 direct ZANAV and via 040° track to AMTRA and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 [225°-044°]	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 [045°-089°]	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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Procedure Turn NA	NATHN	VGSI and RNAV glidepath not coincident	3000	ZANAV	040° trk	AMTRA
3500		ALISN				
GS 3.00° TCH 54						
	6 NM	5.1 NM				
CATEGORY	A	B	C	D		
LPV DA		390/50	273 (300-1)			
LNAV/VNAV DA		441/50	324 (400-1)			
LNAV MDA		540/50	423 (500-1)			



▼

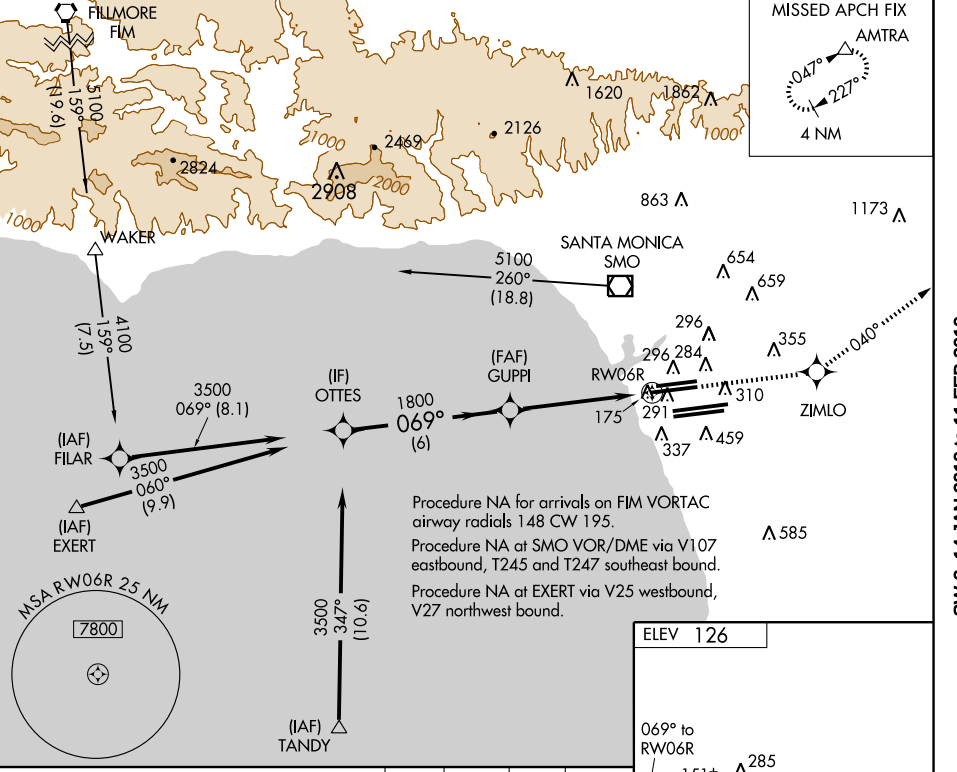
W

For inoperative MALSR, increase LPV all Cats and LNAV/VNAV Cat D visibility to RVR 5000, and increase RNAV Cat D visibility to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

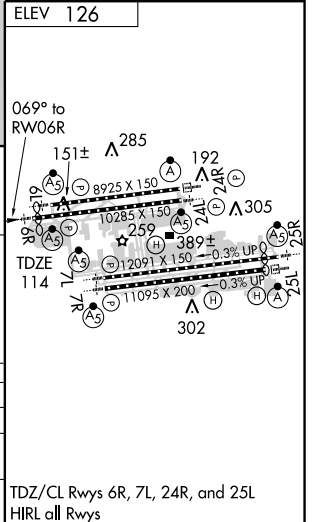
MALSR

MISSED APPROACH: Climb to 3000 direct ZIMLO and via 040° track to AMTRA and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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Procedure Turn NA	OTTES	VGSI and RNAV glidepath not coincident			
3500		GUPPI			
GS 3.00° TCH 43					
3000 ZIMLO 040° trk AMTRA *1.1 NM to RWY 06R *LNAV only					
6 NM 4 NM 1.1 NM					
CATEGORY	A	B	C	D	
LPV DA	364/24		250 (300-½)		
LNAV/VNAV DA	425/24		311 (300-½)		425/40 311 (300-¾)
LNAV MDA	520/24		406 (400-½)		520/40 406 (400-¾)
			520/50		406 (400-1)



SW-3. 14 JAN 2010 to 11 FEB 2010

For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

DME/DME RNP -0.3 NA.

MALSR

MISSED APPROACH: Climb to 3000 direct FILBA then via 070° track to DOWNE and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR	133.8	(APCH FM WEST)	(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP	135.65	124.5 235.975	128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
		(225°-044°)	(045°-089°)			

Map details: Fillmore (FIM), Waker, Santa Monica (SMO), (IF) FEKIL, (FAF) TURKA, RW07L, FILBA, DOWNE, EXERT, TANDY. Altitudes: 1580, 1500, 2800, 2908, 2469, 2126, 1862, 1620, 863, 1173, 654, 296, 284, 310, 355, 337, 459, 585. Distances: 5100 (18.8), 4100 (8.3), 2800 (8.8), 2800 (10.6), 2800 (10), 1800 (6). MSA RW07L 25 NM (7700).

	FEKIL	Procedure Turn NA	3000	FILBA	070° trk	DOWNE
	2800	069°	1800	*1.3 NM to RW07L	*LNAV only	
GS 3.00° TCH 59	6 NM	3.7 NM	1.3			
CATEGORY	A	B	C	D		
LPV DA	432/24		306 (400-½)			
LNAV/VNAV DA	582/50		456 (500-1)			
LNAV MDA	600/24 474 (500-½)		600/40 474 (500-¾)		600/50 474 (500-1)	

Missed Approach Details: TDZE 126, 069° to RW07L. Altitudes: 151±, 192, 1285 X 150, 10285 X 150, 259, 389±, 12091 X 150, 11095 X 200, 302, 251, 239. Gradients: -0.3% UP, -0.3% UP.

SW-3: 14 JAN 2010 to 11 FEB 2010

WAAS CH 69603 W07B	APP CRS 069°	Rwy Idg 11095 TDZE 125 Apt Elev 126
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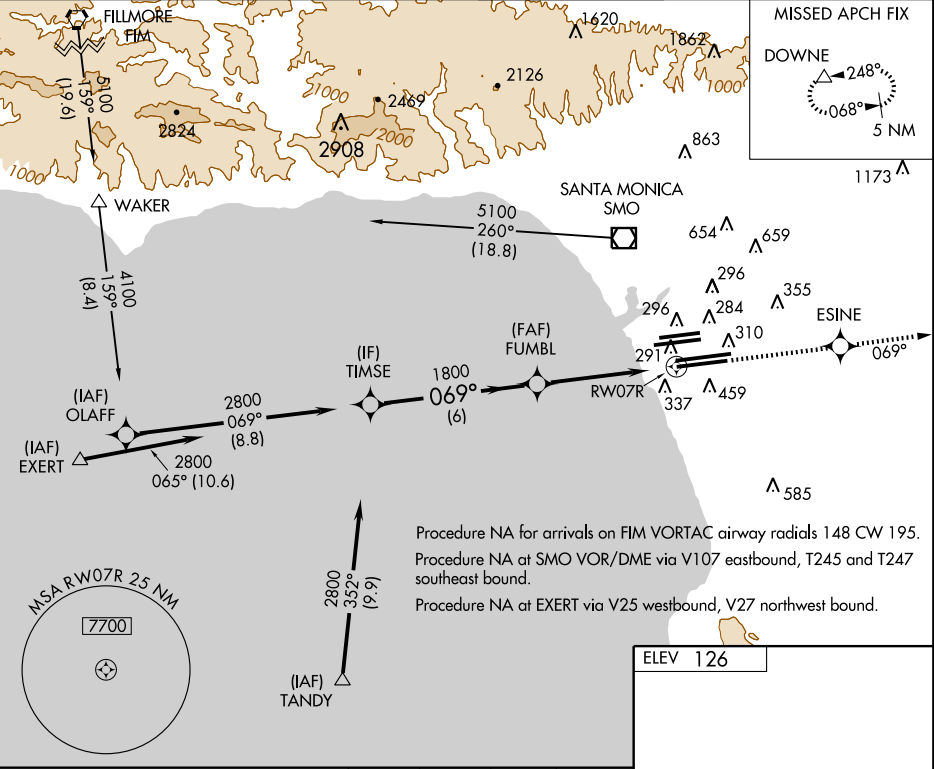
RNAV (GPS) Y RWY 7R
LOS ANGELES INTL (LAX)

W For inoperative MALSR, increase LPV all Cats. visibility to RVR 5000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA.

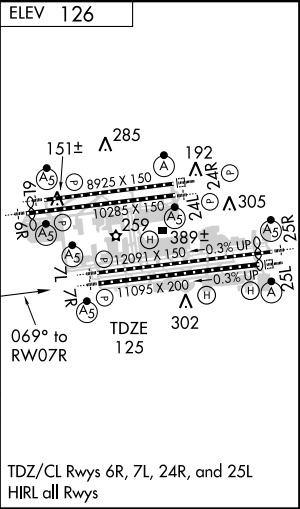
MALSR

MISSED APPROACH: Climb to 3000 direct ESINE and via 069° track to DOWNE and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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Procedure Turn NA	VGSI and RNAV glidepath not coincident.			3000 ↑	ESINE ✧	069° trk	DOWNE △
TIMSE							



WAAS CH 56407 W24B	APP CRS 249°	Rwy ldg TDZE Apt Elev	10285 121 126
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For inoperative MALSR, increase LPV all Cats visibility to RVR 6000.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 2000 direct JAKOS and via 261° track to RAFFS and hold.

ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	N 133.9 239.3 S 120.95 379.1	GND CON	N 121.65 327.0 S 121.75 327.0	CLNC DEL	121.4 327.0
ARR	133.8								
DEP	135.65								

MISSED APCH FIX

ELEV 126

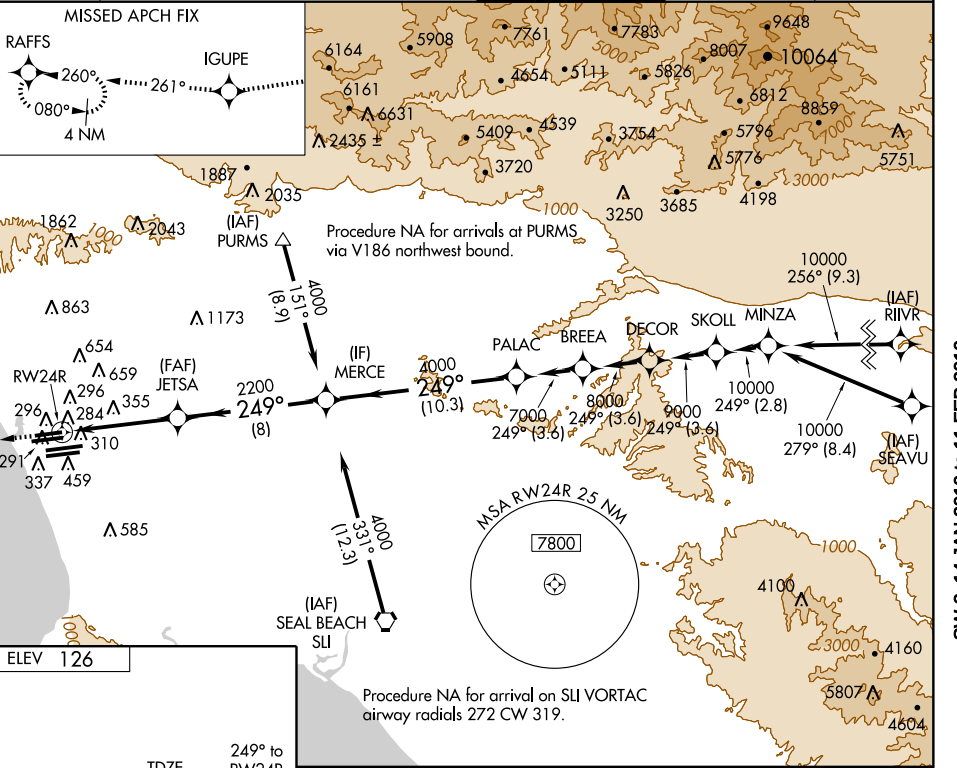
TDZ/CL Rwy 6R, 7L, 24R, and 25L

HIRL all Rwy

2000	JAKOS	261° trk	RAFFS	VGSI and RNAV glidepath not coincident.	HURLR
*LNAV only					
*1.5 NM to RW24L					
RW24L					
1.5 NM	4.8 NM	8 NM	10.3 NM		
SUTIE	JULLI				
2200	4000	7000			
GS 3.00°					
TCH 59					
Procedure Turn NA					
CATEGORY	A	B	C	D	
LPV	DA	469/40	348 (400-¾)		
LNAV/VNAV	DA	606/60	485 (500-1¼)		
LNAV	MDA	660/24	539 (600-½)	660/50 539 (600-1)	660/60 539 (600-1¼)

SW-3, 14 JAN 2010 to 11 FEB 2010

WAAS CH 69307 W24A	APP CRS 249°	Rwy Idg TDZE 120 Apt Elev 126		
DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).			ALSIF-2 	MISSED APPROACH: Climb to 2000 direct IGUPE and via 261° track to RAFFS and hold.
ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0 CLNC DEL 121.4 327.0



	2000	IGUPE	261° trk	RAFFS	VGSI and RNAV glidepath not coincident.	PALAC
	*LNAV only		JETSU		MERCE	
	*1.5 NM to RWY24R		2200		4000	7000
	RWY24R		Procedure Turn NA		GS 3.00° TCH 59	
	1.5 NM		4.8 NM		8 NM	
CATEGORY	A		B		C	D
LPV DA			374/24 254 (300-½)			
LNAV/ VNAV DA			604/60 484 (500-1¼)			
LNAV MDA	660/24 540 (600-½)		660/50 540 (600-1)		660/60 540 (600-1¼)	

TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

SW-3, 14 JAN 2010 to 11 FEB 2010

WAAS CH 53507 W25A	APP CRS 249°	Rwy ldg TDZE Apt Elev 126	11095 104 126
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For inoperative ALSF-2, increase LPV all Cats. visibility to RVR 5000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 2000
direct ZERAN and via 185° track to
CATLY and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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2000

ZERAN

185°
trk

CATLY

*LNAV only

RW25L

1.5 NM to RW25L

1900

HUNDA

GAATE

FUEL

3700

5000

7000

GS 3.00°

TCH 56

Procedure Turn NA

CATEGORY	A	B	C	D
LPV DA	365/24	261 (300-½)		
LNAV/VNAV DA	575/60	471 (500-1¼)		
LNAV MDA	640/24	536 (600-½)	640/50 536 (600-1)	640/60 536 (600-1¼)

ELEV 126

249° to RW25L

SW-3. 14 JAN 2010 to 11 FEB 2010

WAAS	APP CRS	Rwy Idg	11134
CH 49007	249°	TDZE	102
W25B		Apt Elev	126

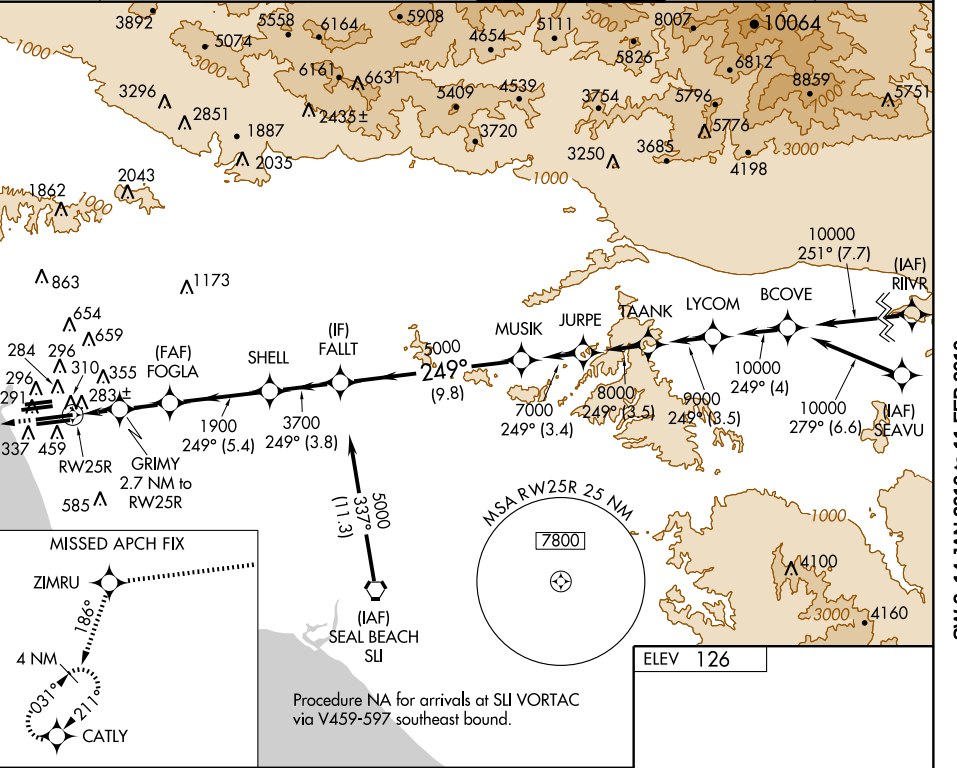
W

For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

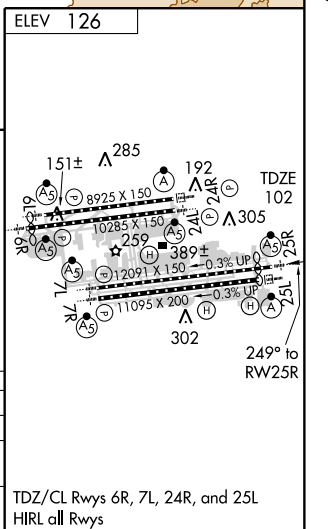
MALSR

MISSED APPROACH: Climb to 2000 direct ZIMRU and via 186° track to CATLY and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



2000	ZIMRU	186° trk	CATLY	MUSIK
*LNAV only	GRIMY 2.7 NM to RW25R	FOGLA 1900	SHELL 3700	FALLT 5000
	*1.5 NM to RW25R			7000
	1.5	1.2	2.7 NM	5.4 NM
			3.8 NM	9.8 NM
CATEGORY	A	B	C	D
LPV DA		369/24	267 (300-½)	
LNAV/VNAV DA		576/60	474 (500-1¼)	
LNAV MDA	640/24	538 (600-½)	640/50 538 (600-1)	640/60 538 (600-1¼)



SW-3. 14 JAN 2010 to 11 FEB 2010

RNAV (RNP) Z RWY 6L

LOS ANGELES INTL (LAX)

APP CRS	Rwy Idg	8925
069°	TDZE	117
	Apt Elev	126

V GPS required.

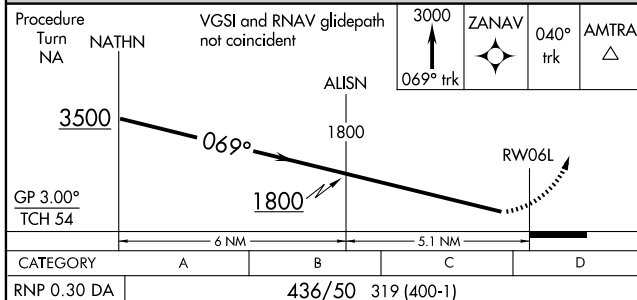
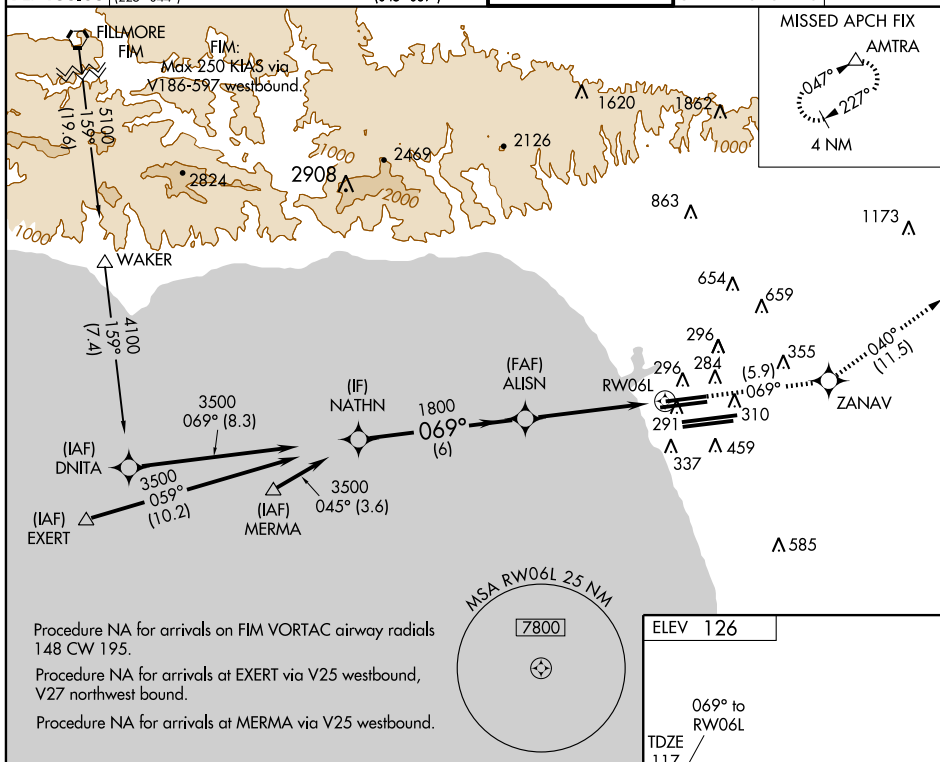
NA For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F), or above 48°C (119°F).
Inoperative table does not apply.
Visibility reduction by helicopters NA.

MALSR



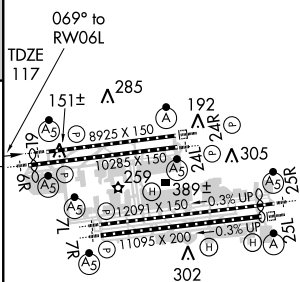
MISSED APPROACH: Climb to 3000 via 069° track to ZANAV and via 040° track to AMTRA and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	N 133.9 239.3	GND CON	N 121.65 327.0	CLNC DEL	121.4 327.0
ARR 133.8	124.5 235.975		128.5 360.7		S 120.95 379.1		S 121.75 327.0		
DEP 135.65	(225°-044°)		(090°-224°)						
			(045°-089°)						



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 126



TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

APP CRS	Rwy Idg	9954
069°	TDZE	114
	Apt Elev	126

RNAV (RNP) Z RWY 6R

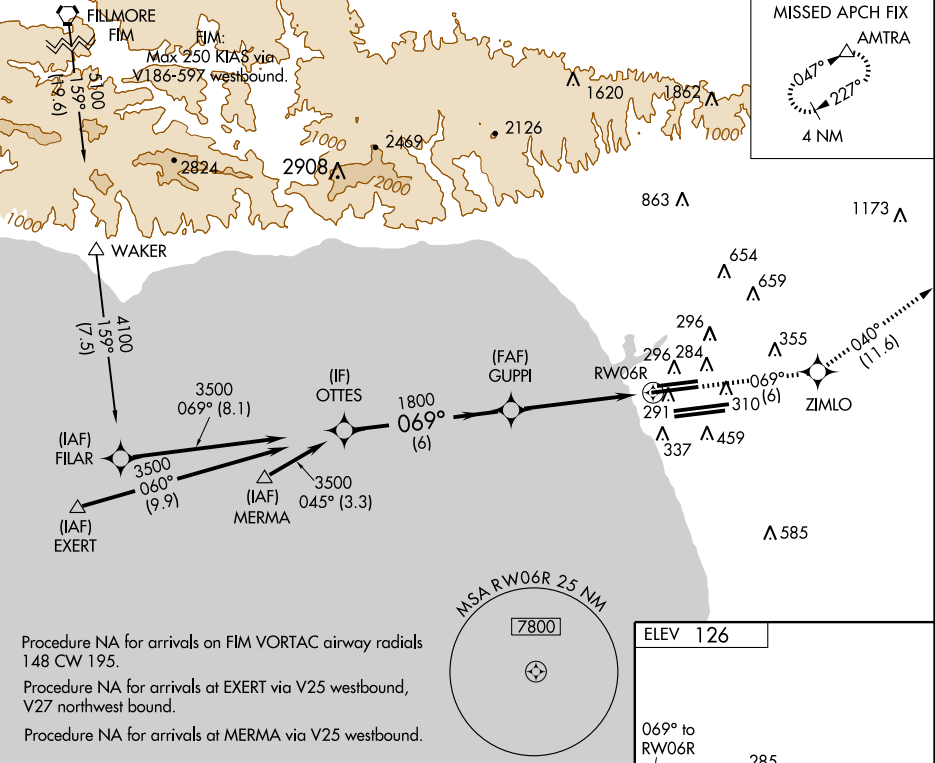
LOS ANGELES INTL (LAX)

V GPS required. Visibility reduction by helicopters NA.
NA For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F), or above 48°C (119°F).
For inoperative MALSR, increase RNP 0.30 visibility to RVR 5000 all Cats.

MALSR

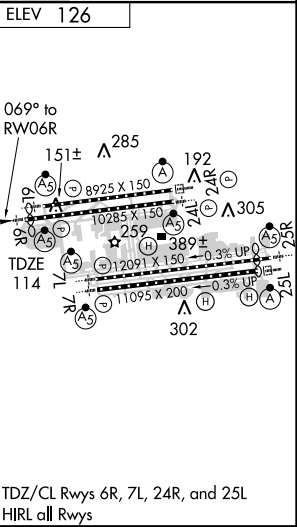
MISSED APPROACH: Climb to 3000 via 069° track to ZIMLO and via 040° track to AMTRA and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	121.4 327.0
DEP 135.65	(225°-044°)		(045°-089°)	S 120.95 379.1	S 121.75 327.0	



Procedure	Turn	NA	OTTES	VGSI and RNAV glidepath not coincident	3000	ZIMLO	040° trk	AMTRA
GP 3.00°	TCH 43	3500	069°	1800	6 NM	5.1 NM	RW06R	
CATEGORY	A	B	C	D				
RNP 0.30	DA	413/40	299 (300-¾)					

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



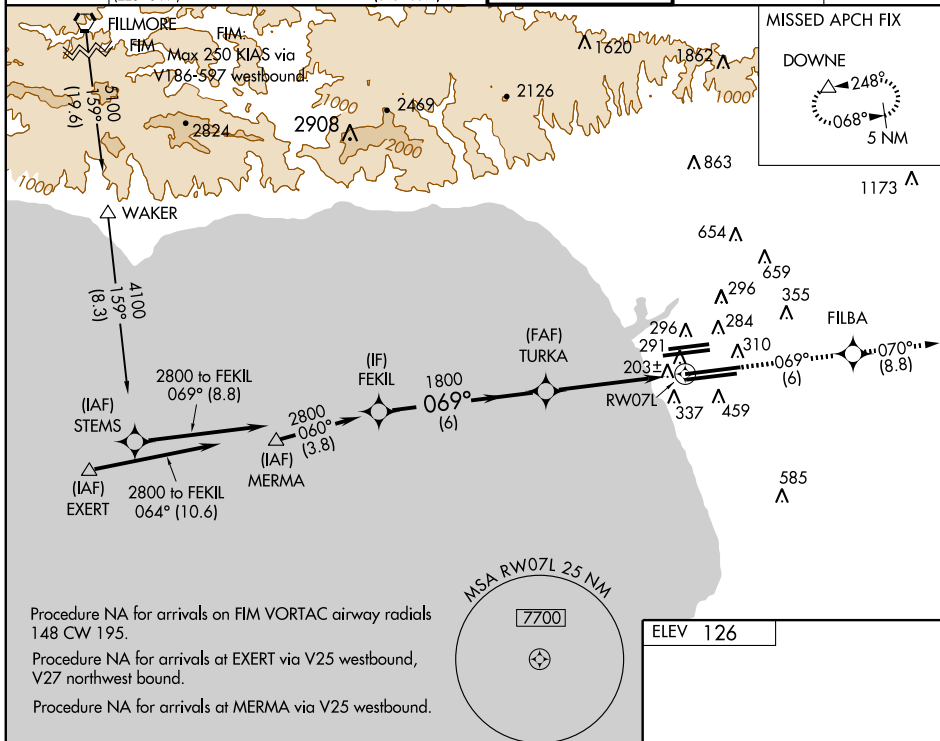
TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

RNAV (RNP) Z RWY 7L

LOS ANGELES INTL (LAX)

APP CRS 069°	Rwy Idg 12091 TDZE 126 Apt Elev 126	GPS required. For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F), or above 48°C (118°F). For inoperative MALSR, increase RNP 0.12 visibility to RVR 5000 and RNP 0.30 visibility to RVR 6000.	MALSR 	MISSED APPROACH: Climb to 3000 via 069° track to FILBA and via 070° track to DOWNE and hold.
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ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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Procedure NA for arrivals on FIM VORTAC airway radials 148 CW 195.

Procedure NA for arrivals at EXERT via V25 westbound, V27 northwest bound.

Procedure NA for arrivals at MERMA via V25 westbound.

FEKIL	Procedure Turn NA	3000	FILBA	070° trk	DOWNE
2800	069°	1800	TURKA	1800	RW07L
GP 3.00° TCH 59	6 NM	5 NM			
CATEGORY	A	B	C	D	
RNP 0.12 DA		440/24	314 (400-½)		
RNP 0.30 DA		483/40	357 (400-¾)		
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED					
TDZ/CL Rwy 6R, 7L, 24R, and 25L HIRL all Rwy					

RNAV (RNP) Z RWY 7R
LOS ANGELES INTL (LAX)

MALSR



MISSED APPROACH: Climb to 3000 via 069° track to ESINE and 069° track to DOWNE and hold.

Procedure NA for arrivals on FIM VORTAC airway radials 148 CW 195.

Procedure NA for arrivals at EXERT via V25 westbound, V27 northwest bound.

Procedure NA for arrivals at MERMA via V25 westbound.

Procedure	Turn	NA	TIMSE
-----------	------	----	-------

3000
↑
069° trk

ESINE

069°
trk

DOWN

VGSI and RNAV glidepath not coincident.

GP 3.00°

CATEGORY

A

B

C

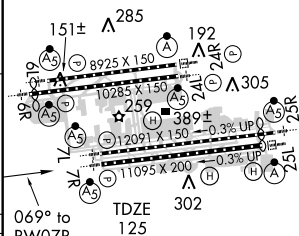
C

RNP 0.12	DA
RNP 0.30	DA

418/24	293 (300- $\frac{1}{2}$)
483/40	358 (400- $\frac{3}{4}$)

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 126



TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

RNAV (RNP) Z RWY 24R

LOS ANGELES INTL (LAX)

APP CRS	Rwy Idg	8925
249°	TDZE	120
	Apt Elev	126

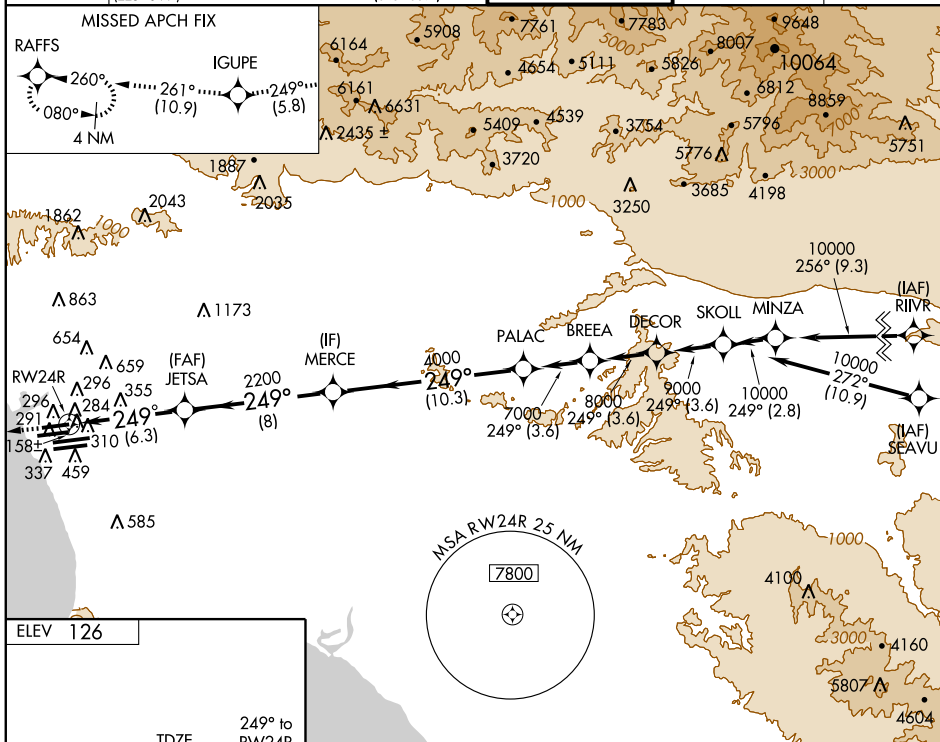
NA For uncompensated Baro-VNAV systems, procedure NA below 5°C (40°F) or above 48°C (119°F).
For inoperative ALSF-2 increase RNP 0.16 visibility to RVR 6000 and RNP 0.30 to 1½ miles.
GPS required. Visibility reduction by helicopters NA.

ALSF-2

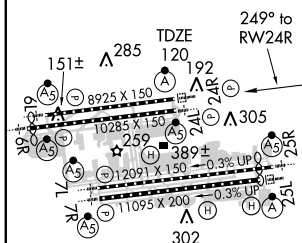


MISSED APPROACH: Climb to 2000 via 249° track to IGUPE and via 261° track to RAFFS and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER		GND CON		CLNC DEL	
ARR	133.8			N 133.9 239.3		N 121.65 327.0			
DEP	135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0		121.4 327.0	
		(225°-044°)		(090°-224°)					
				(045°-089°)					



ELEV 126



2000	IGUPE	261° trk	RAFFS	VGSI and RNAV glidepath not coincident.
249° trk				
	JETSA		MERCE	PALAC
	2200		4000	7000
				GP 3.00° TCH 59
	6.3 NM	8 NM	10.3 NM	
CATEGORY	A	B	C	D
RNP 0.16 DA		485/40	365 (400-¾)	
RNP 0.30 DA		584/60	464 (500-1 ¼)	

TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HIRL all Rwy's

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

RNAV (RNP) Z RWY 25L

LOS ANGELES INTL (LAX)

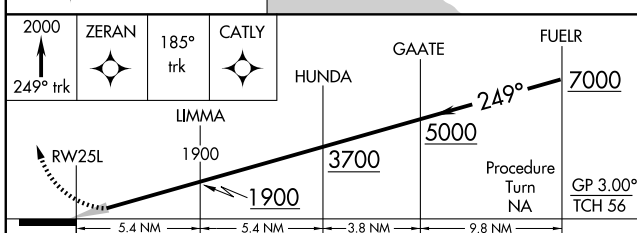
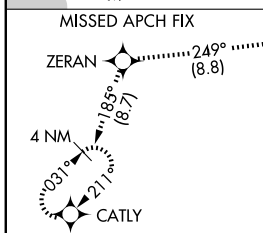
▲ For uncompensated Baro-VNAV systems, procedure NA below 5°C (40°F), or above 48°C (118°F).
▲ NA For inoperative ALSF-2 increase visibility RNP 0.12 all Cats. to RVR 5000, RNP 0.17 all Cats. to RVR 6000, and increase RNP 0.30 all Cats. to 1½ mile. GPS required.

ALSF-2



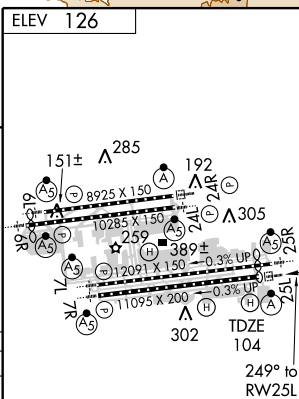
MISSED APPROACH: Climb to 2000 via 249° track ZERAN and via 185° track to CATLY and hold.

ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	N 133.9 239.3 S 120.95 379.1	GND CON	N 121.65 327.0 S 121.75 327.0	CLNC DEL	121.4 327.0
ARR	133.8								
DEP	135.65	124.5 235.975 (225°-044°)		128.5 360.7 (045°-089°)					



CATEGORY	A	B	C	D
RNP 0.12 DA	408/24	304 (300-½)		
RNP 0.17 DA	458/40	354 (400-¾)		
RNP 0.30 DA	538/50	434 (500-1)		

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

LOS ANGELES INTL (LAX)

4 NM

031°

211°

CATLY

2000

249° trk

ZIMRU

186° trk

CATLY

MUSIK

FALLT

SHELL

FOGLA

1900

3700

5000

7000

249°

RW25R

1900

5.4 NM

5.4 NM

3.8 NM

9.8 NM

Procedure Turn NA

GP 3.00°

TCH 58

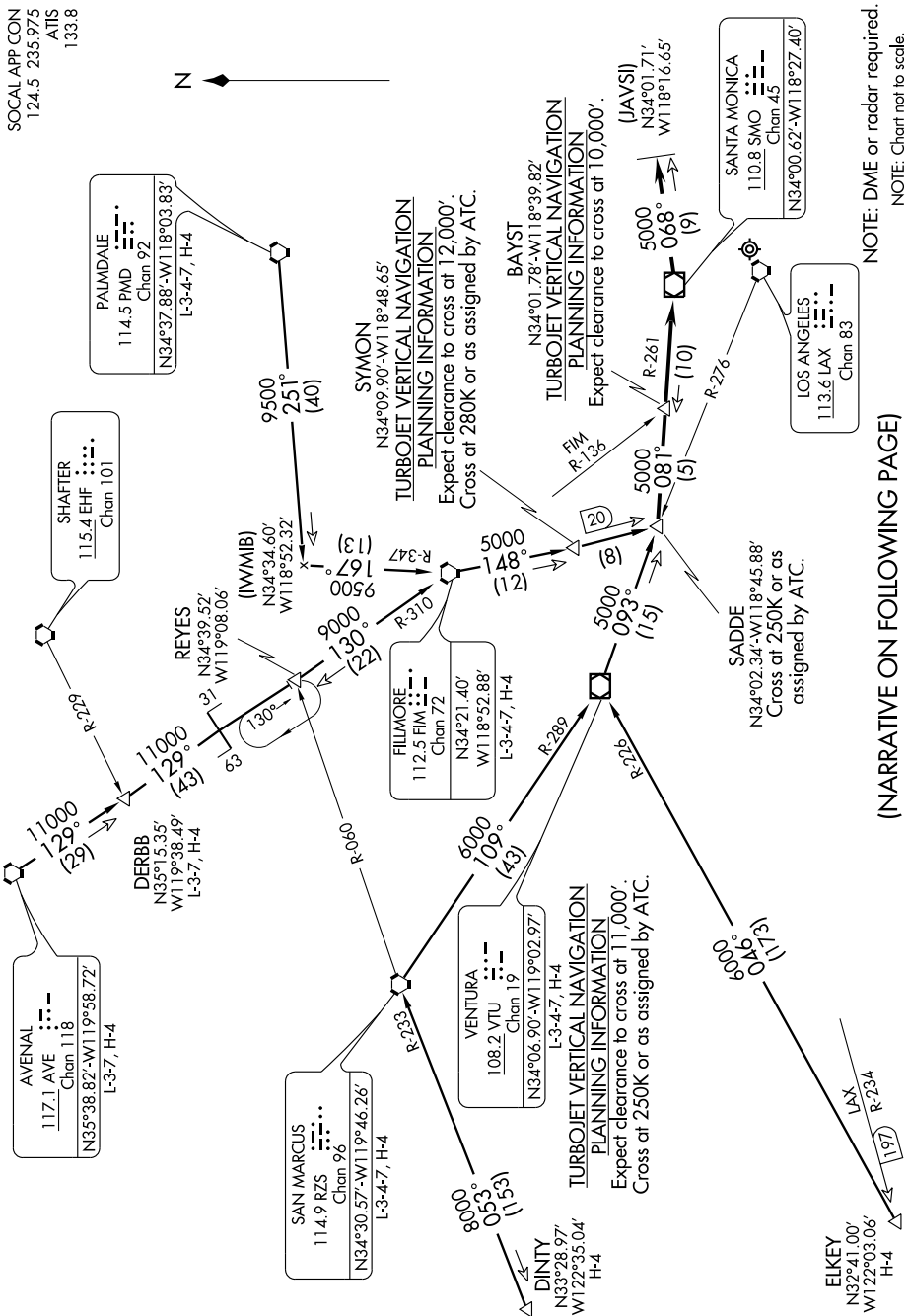
CATEGORY	A	B	C	D
RNP 0.11 DA		486/50	384 (400-1)	
RNP 0.30 DA		537/50	435 (500-1)	

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HIRL all Rwy's

SADDE SIX ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.SADDE6): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC, then via FIM R-148 to SADDE INT. Thence....

DERBB TRANSITION (DERBB.SADDE6): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC, then via FIM R-148 to SADDE INT. Thence....

DINTY TRANSITION (DINTY.SADDE6): From over DINTY INT via RZS R-233 to RZS VORTAC; then via RZS R-109 and VTU R-289 to VTU VOR/DME, and then via VTU R-093 to SADDE INT. Thence....

ELKEY TRANSITION (ELKEY.SADDE6): From over ELKEY INT via VTU R-226 to VTU VOR/DME then via VTU R-093 to SADDE INT. Thence....

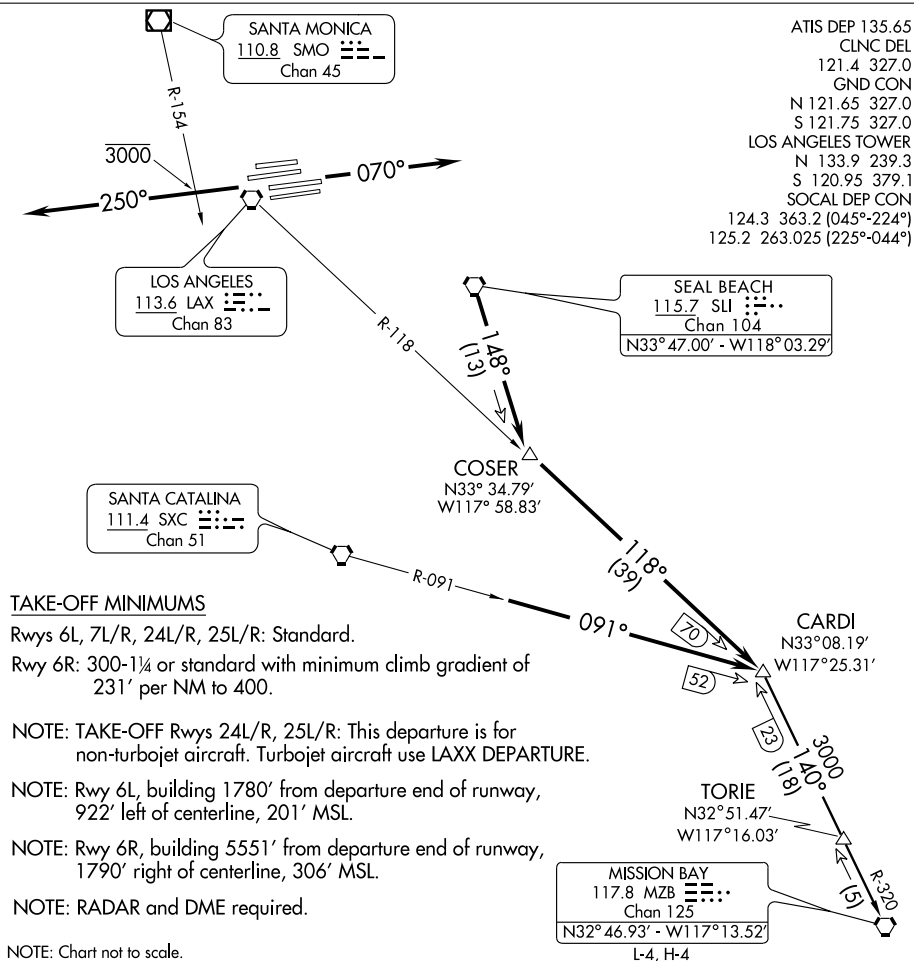
FILLMORE TRANSITION (FIM.SADDE6): From over FIM VORTAC via FIM R-148 to SADDE INT. Thence....

PALMDALE TRANSITION (PMD.SADDE6): From over PMD VORTAC via PMD R-251 and FIM R-347 to FIM VORTAC, then via FIM R-148 to SADDE INT. Thence....

SAN MARCUS TRANSITION (RZS.SADDE6): From over RZS VORTAC via RZS R-109 and VTU R-289 to VTU VOR/DME then via VTU R-093 to SADDE INT. Thence....

VENTURA TRANSITION (VTU.SADDE6): From over VTU VOR/DME via VTU R-093 to SADDE INT. Thence....

....From over SADDE INT via SMO R-261 to SMO VOR/DME, then via SMO R-068 to SMO 9 DME for Runways 24 and 25. From SMO 9 DME expect vector to final approach course for Los Angeles Intl Airport.



DEPARTURE ROUTE DESCRIPTION

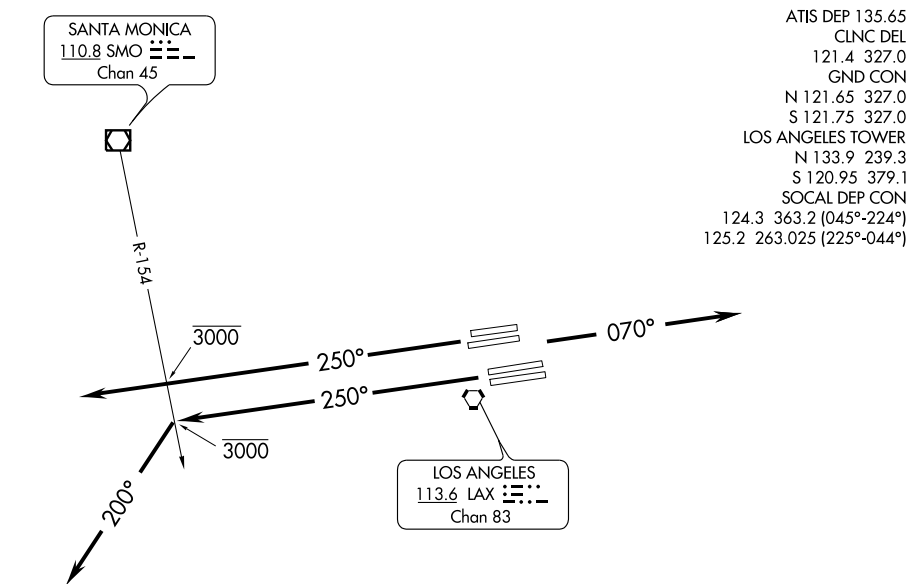
TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to SLI VORTAC, then via SLI R-148 to COSER DME fix then via LAX R-118 to CARDI INT. Thence....

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000, then via RADAR vector to join SXC R-091 to CARDI INT. Thence....

....via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

MISSION BAY TRANSITION (SNGO5.MZB): From over CARDI INT via MZB R-320 to MZB VORTAC.

**TAKE-OFF MINIMUMS**

Rwys 6L, 7L/R, 24L/R, 25L/R: Standard.

Rwy 6R: 300-1¼ or standard with minimum climb of 231' per NM to 400.

NOTE: TAKE-OFF Rwys 24L/R, 25L/R: This departure is for non-turbojet aircraft. Turbojet aircraft use LAXX DEPARTURE.

NOTE: Rwys 25L/R, ATC minimum climb gradient of 410' per NM to 600' MSL required.

NOTE: Rwy 6R, building 5551' from departure end of runway, 1790' right of centerline, 306' MSL.

NOTE: Rwy 6L, building 1780' from departure end of runway, 922' left of centerline, 201' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to SLI VORTAC. ThenceTAKE-OFF RUNWAYS 24L/R: Climb via heading 250° to cross SMO R-154 at or below 3000' then via radar vectors to SLI VORTAC. ThenceTAKE-OFF RUNWAYS 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000' then turn left heading 200° for vector to SLI VORTAC. Thence
.... via (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

SEBBY FOUR DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS DEP 135.65
CLNC DEL
121.4 327.0
GND CON
N 121.65 327.0
S 121.75 327.0
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

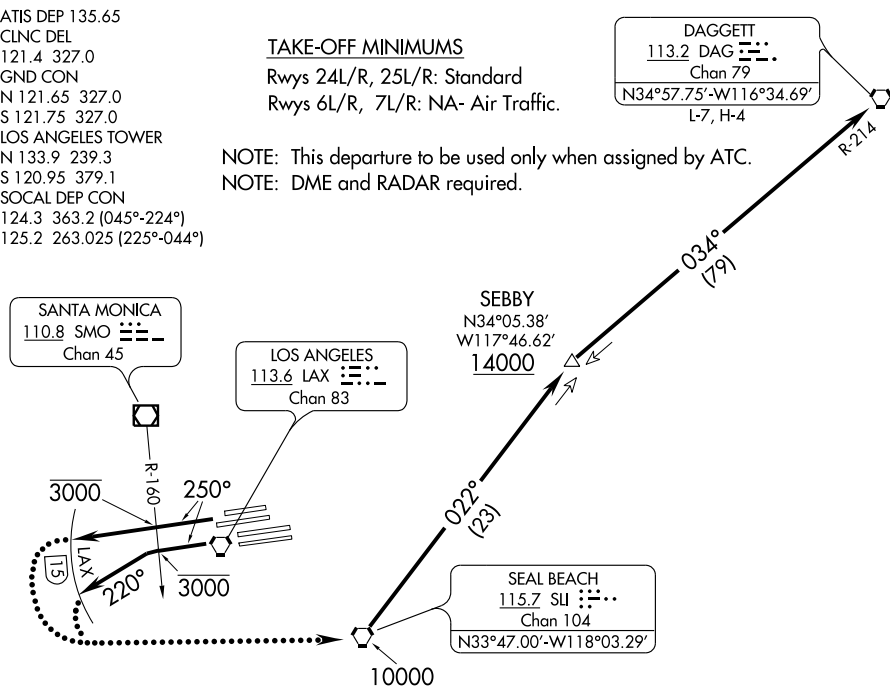
TAKE-OFF MINIMUMS

Rwys 24L/R, 25L/R: Standard

Rwys 6L/R, 7L/R: NA- Air Traffic.

NOTE: This departure to be used only when assigned by ATC.

NOTE: DME and RADAR required.

TAKE-OFF OBSTACLE NOTES

Rwy 24L: Bush 962' from DER, 601' left of centerline, 29' AGL/148' MSL.

Antenna on pole 1357' from DER, 287' right of centerline, 25' AGL/144' MSL.

Rwy 24R: OL on glideslope 213' from DER, 400' left of centerline, 34' AGL/151' MSL.

Rwy 25L: Pole 2366' from DER, 820' left of centerline, 55' AGL/184' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

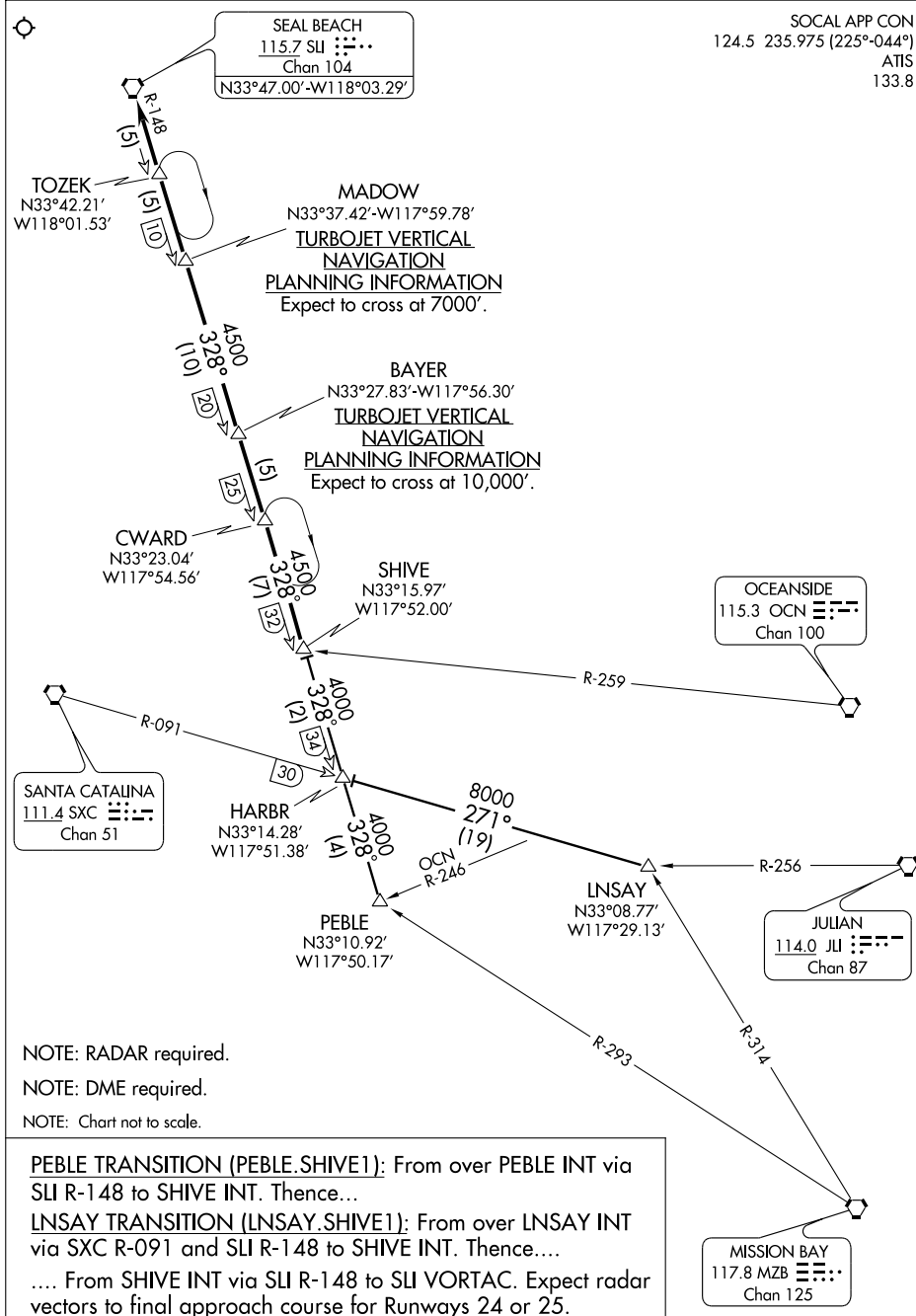
TAKE-OFF RUNWAYS 24L/R: Climb via heading 250°, cross SMO R-160 at or below 3000, Thence....TAKE-OFF RUNWAYS 25L/R: Climb via heading 250°, cross SMO R-160 at or below 3000, then turn left via heading 220°, Thence....

....via radar vectors to cross SLI VORTAC at or above 10000, then via SLI R-022 to cross SEBBY at or above 14000, then turn right via DAG R-214 to DAG VORTAC, expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by 15 DME west of LAX VORTAC, turn left direct SLI VORTAC and proceed on assigned route, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

SHIVE ONE ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIASOCAL APP CON
124.5 235.975 (225°-044°)
ATIS
133.8

STADIUM VISUAL RWY 24L/R

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS ARR 133.8

DEP 135.65

SOCAL APP CON

124.5 235.975

LOS ANGELES TOWER

N 133.9 239.3

S 120.95 379.1

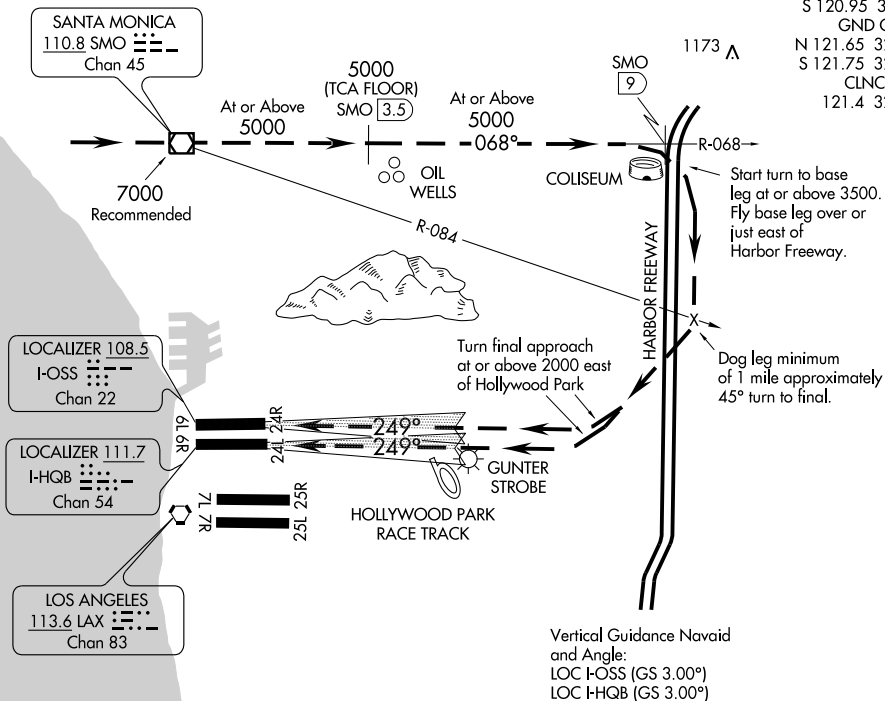
GND CON

N 121.65 327.0

S 121.75 327.0

CLNC DEL

121.4 327.0



RADAR REQUIRED

Weather minimums: 3000 feet ceiling
and 3 miles visibility.

CHART NOT TO SCALE

STADIUM VISUAL APPROACH

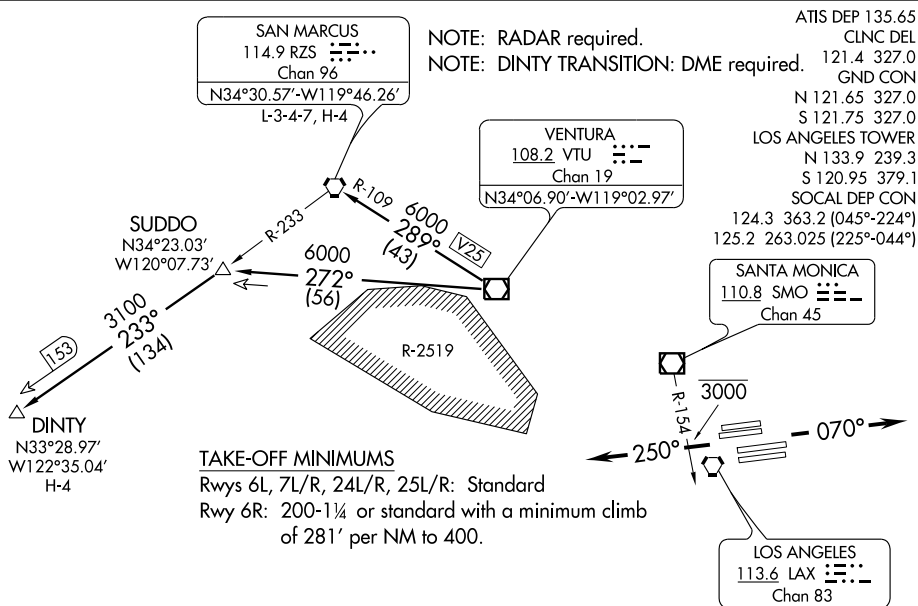
When visual approaches to Runways 24L/R are in progress, clearances to aircraft from the north and northwest will be given utilizing the following phraseology:

"(IDENT) CLEARED FOR STADIUM VISUAL RUNWAY 24 LEFT/RIGHT APPROACH."

A descent profile of approximately 3° starting at 7000 over SMO VOR/DME may be made with reference to the minimum altitudes above.

VENTURA FIVE DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

TAKE-OFF OBSTACLE NOTES

Rwy 6L: Multiple signs and building beginning 1693' from DER, 340' left of centerline, up to 91' AGL/201' MSL.

Rwy 6R: OL on sign 1867' from DER, 941' left of centerline, 52' AGL/161' MSL.

Multiple towers and windsock beginning 4930' from DER, 1734' right of centerline, up to 207' AGL/306' MSL.

Rwy 7L: Multiple blast fences, signs, and antennas beginning 168' from DER, on centerline to 1858' from DER, 576' left of centerline, up to 58' AGL/147' MSL.

Railroad 275' from DER, up to 23' AGL/117' MSL.

Rwy 24L: Bush 962' from DER, 601' left of centerline, 29' AGL/148' MSL.

Antenna on pole 1357' from DER, 287' right of centerline, 25' AGL/144' MSL.

Rwy 24R: OL on glideslope 213' from DER, 400' left of centerline, 34' AGL/151' MSL.

Rwy 25L: Pole 2366' from DER, 820' left of centerline, 55' AGL/184' MSL.

NOTE: Chart not scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vectors to VTU VOR/DME.

Thence. . .

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° for vectors to VTU VOR/DME, cross SMO R-154 at or below 3000. Thence. . .

. . . via (assigned transition) or (assigned route). Expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude, whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.DINTY TRANSITION (VTU5.DINTY): From over VTU VOR/DME via VTU R-272 and RZS R-233 to DINTY INT.SAN MARCUS TRANSITION (VTU5.RZS): From over VTU VOR/DME via VTU R-289 and RZS R-109 to RZS VORTAC.

VISTA TWO ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

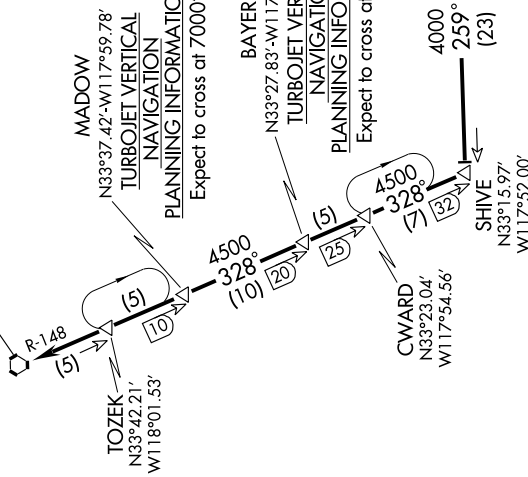
JULIAN TRANSITION (JUL VISTA2): From over JUL VORTAC via JUL R-263 and OCN R-083 to VISTA INT. Thence....

....From VISTA INT OCN R-083 to OCN VORTAC. From OCN VORTAC via OCN R-259 and SH R-148 to SH VORTAC. Expect radar vectors to final approach course for runways 24 or 25.

N

SOCAL APP CON
128.1 281.4
ATIS
133.8

SEAL BEACH
115.7 SU : : :
Chan 104
N33°47.00'-W118°03.29'



NOTE: RADAR Required.

NOTE: DME Required.

NOTE: Chart not to scale.

AIRPORT DIAGRAM

AL-9132 (FAA)

LOS ANGELES/WHITEMAN (WHP)
LOS ANGELES, CALIFORNIA

ATIS
132.1
WHITEMAN TOWER ★
135.0
GND CON
125.0

D

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

FIELD
ELEV
1003

125.5°

HANGARS

FBO

4120 X 75

TWR

HANGARS

ADMINISTRATION

1.0% UP

305.5°

ELEV
960

RWY 12-30
S12.5

VAR 13.3°E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

118°25.0'W

118°24.5'W

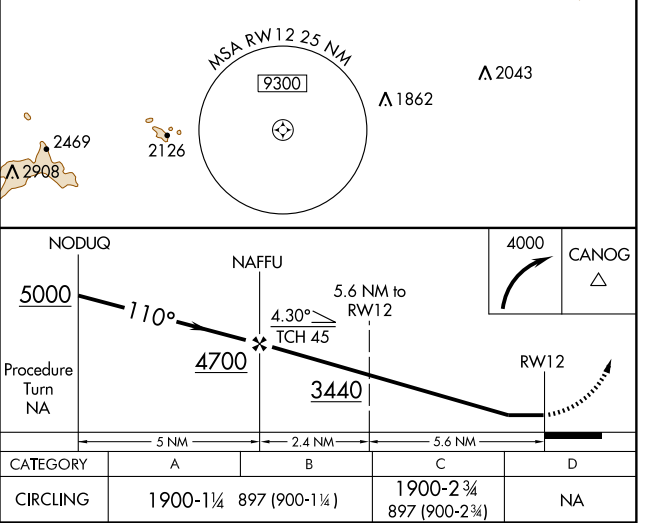
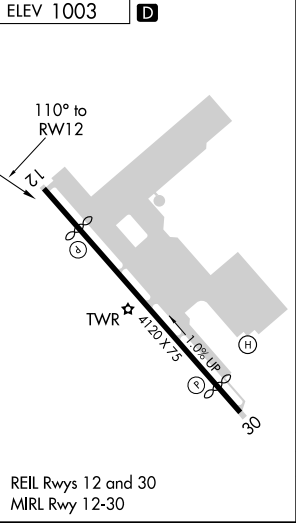
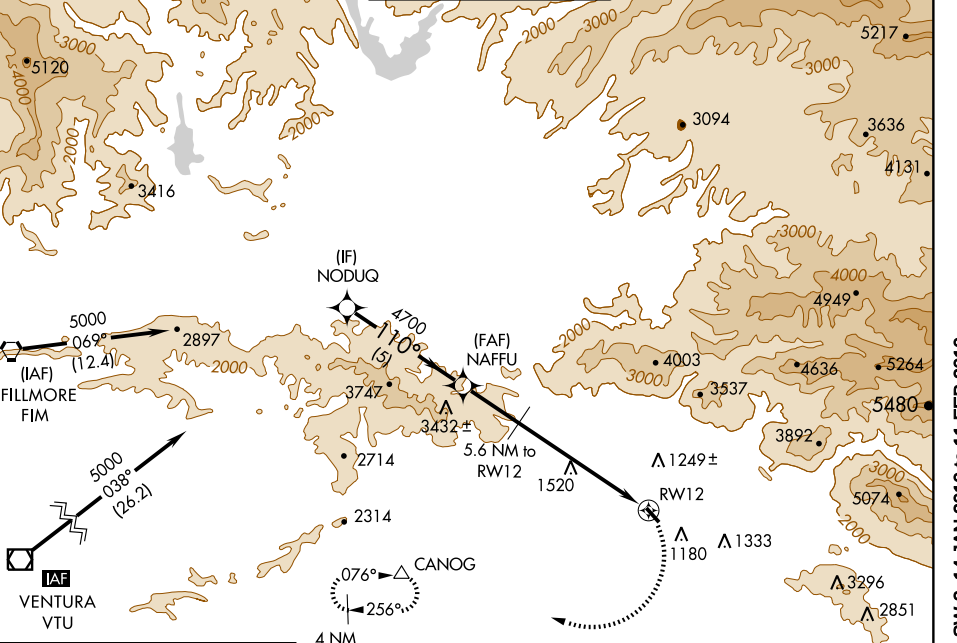
SW-3, 14 JAN 2010 to 11 FEB 2010

When control tower closed, use Burbank altimeter setting.

IAF ARM APPROACH MODE PRIOR TO IAF.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 4000 direct CANOG and hold.

ATIS 132.1	SOCAL APP CON 134.2 338.2	WHITEMAN TOWER ★ 135.0 (CTAF)	GND CON 125.0	UNICOM 122.95
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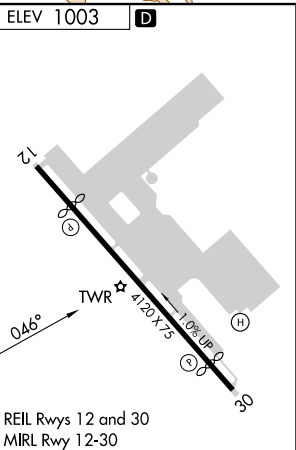
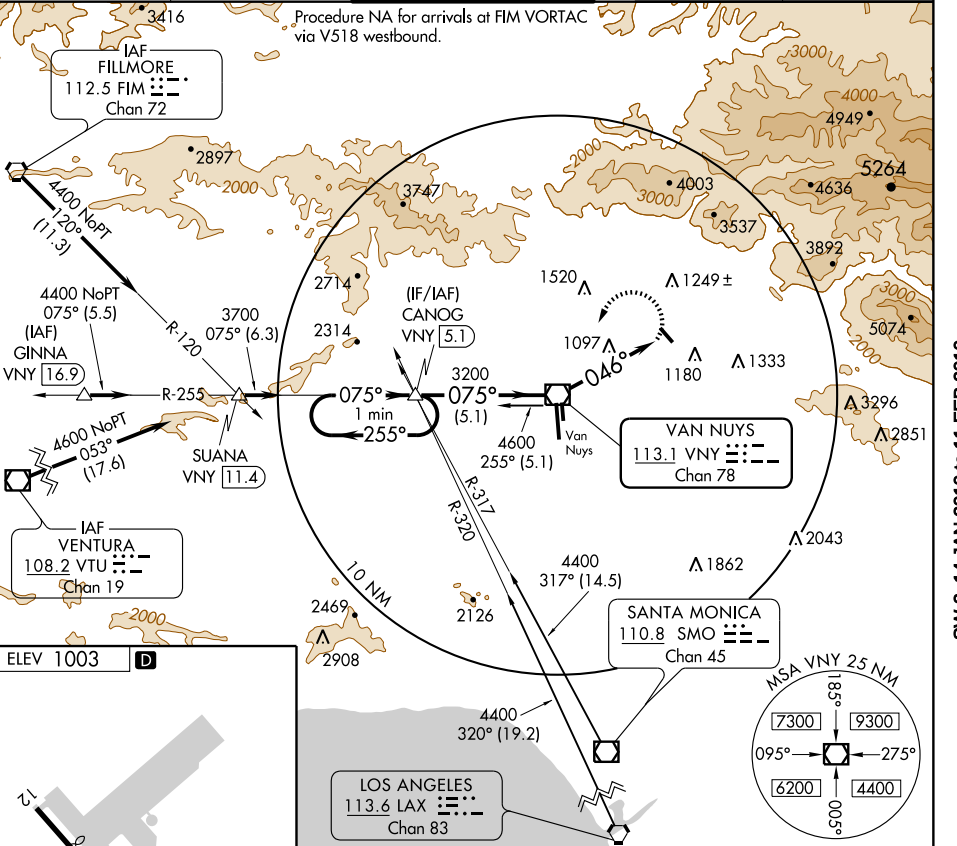
SW-3, 14 JAN 2010 to 11 FEB 2010

VOR/DME VNY	APP CRS	Rwy Idg TDZE	N/A
113.1	046°	Apt Elev	N/A
Chan 78			1003

When control tower closed, use Burbank altimeter setting.

MISSED APPROACH: Climbing left turn to 3700 direct VNY VOR/DME then via VNY VOR/DME R-255 to CANOG INT/ VNY 5.1 DME and hold.

ATIS 132.1	SOCAL APP CON 134.2 338.2	WHITEMAN TOWER ★ 135.0 (CTAF)	GND CON 125.0	UNICOM 122.95
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One Minute Holding Pattern		CANOG INT VNY 5.1	3700 VNY 113.1	VNY R-255	CANOG △
3700		255°	075°	075°	046°
			3200		VNY 4
			5.1 NM	4 NM	
CATEGORY	A	B	C	D	
CIRCLING	1840-1 837 (900-1)	1840-1¼ 837 (900-1¼)	1840-2½ 837 (900-2½)	NA	

SW-3, 14 JAN 2010 to 11 FEB 2010

WAAS CH 53715 W14A	APP CRS 137°	Rwy Idg TDZE Apt Elev	3801 121 121
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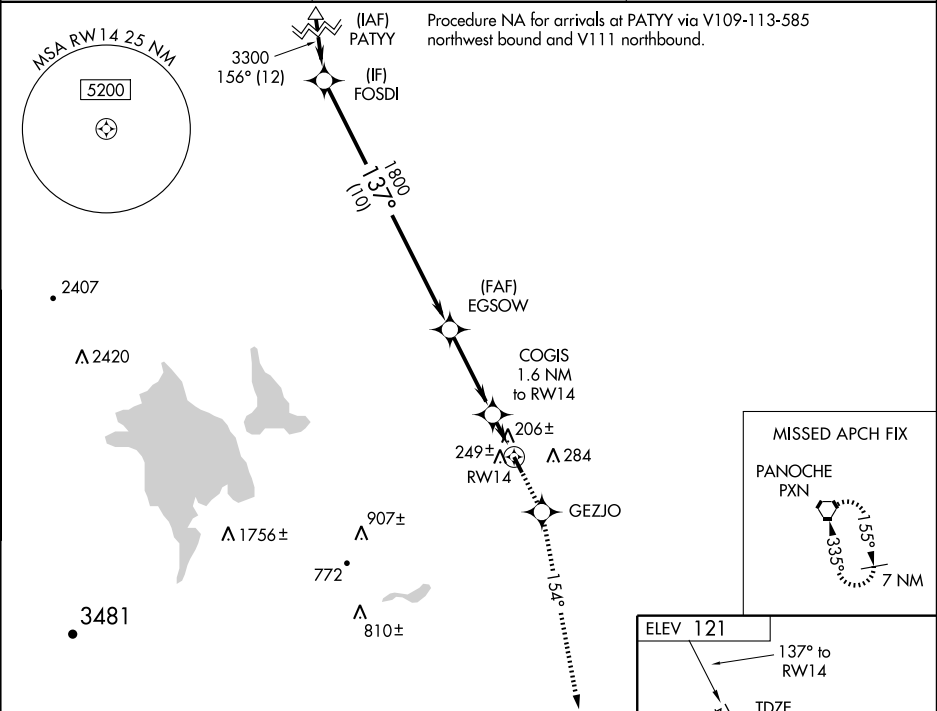
RNAV (GPS) RWY 14

LOS BANOS MUNI (LSN)

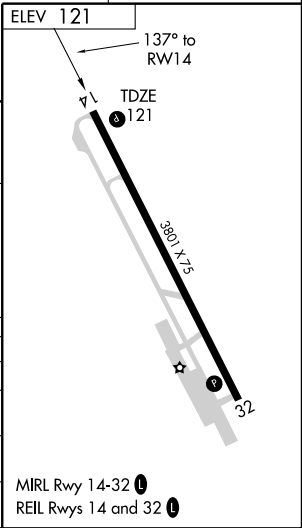
Baro-VNAV NA when using Merced Rgnl/Macready Field altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all DA/MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climb to 6500 direct GEZJO and via track 154° to PXN VORTAC and hold, continue climb-in-hold to 6500.

AWOS-3 118.675	NORCAL APP CON 120.95 269.45	UNICOM 122.8 (CTAF) 0
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	FOSDI	EGSOW	6500	GEZJO	trk 154°	PXN
	3300	1800	↑	✧	154°	⬡
	Procedure Turn NA	GS 3.00° TCH 30°	COGIS 1.6 NM to RWY 14	*LNAV Only		
	10 NM		3.5 NM	1.6		
CATEGORY	A	B	C	D		
LPV DA	455-1¼ 334 (400-1¼)					
LNAV/VNAV DA	519-1½ 398 (400-1½)					
LNAV MDA	520-1 399 (400-1)				520-1¼ 399 (400-1¼)	
CIRCLING	640-1 519 (600-1)		640-1½ 519 (600-1½)		680-2 559 (600-2)	



APP CRS	Rwy Idg	3801
317°	TDZE	121
	Apt Elev	121

RNAV (GPS) RWY 32

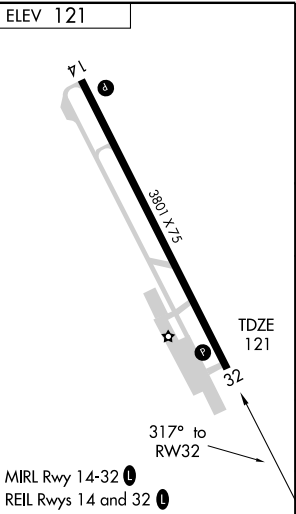
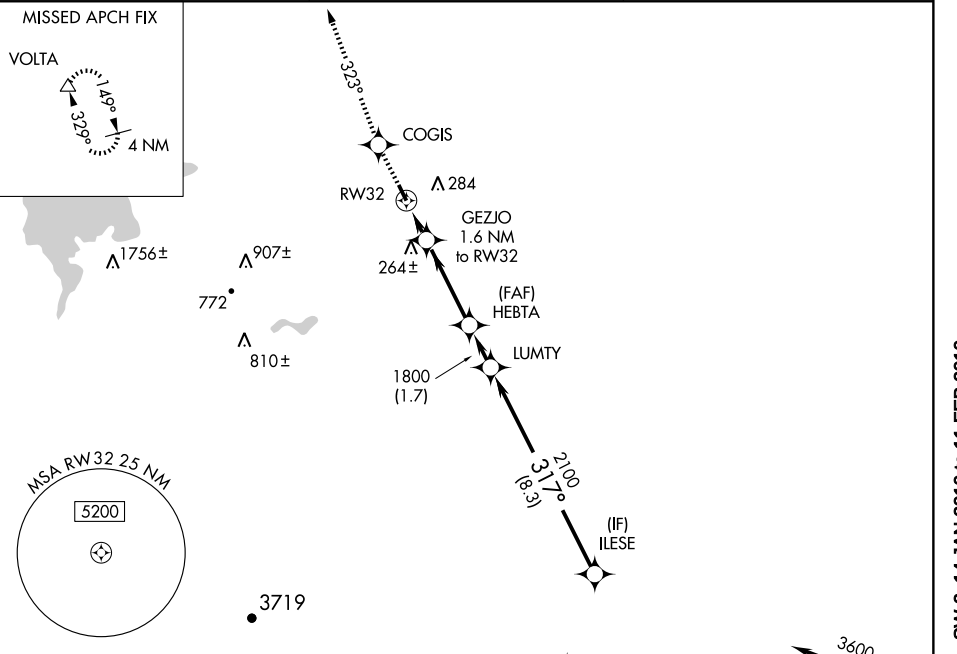
LOS BANOS MUNI (LSN)

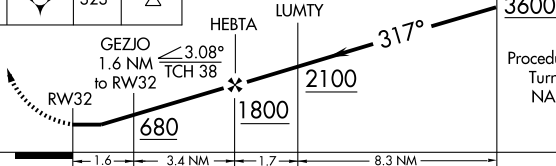
NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Merced Rgnl/Macready Field atimeter setting and increase all MDA 60 feet. Increase all visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct COGIS and via track 323° to VOLTA and hold.

AWOS-3 118.675	NORCAL APP CON 120.95 269.45	UNICOM 122.8 (CTAF) 0
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3000 ↑	COGIS ✱	trk 323°	VOLTA △	ILESE			
 Diagram illustrating a flight path segment. The path starts at RW32, proceeds to HEHTA (1.6 NM to RW32, TCH 38), then to LUMTY (2100), and finally to ILESE (3600). The path includes a 317° turn. Altitudes are marked at 680, 1800, and 2100. Distances are marked as 1.6, 3.4 NM, 1.7, and 8.3 NM. A procedure turn is noted as NA.				3600			
CATEGORY		A		B		C	D
LNAV MDA		520-1 399 (400-1)					520-1¼ 399 (400-1¼)
CIRCLING		640-1 519 (600-1)			640-1½ 519 (600-1½)		680-2 559 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

VORTAC PXN	APP CRS	Rwy Idg	3801
112.6	152°	TDZE	121
Chan 73		Apt Elev	121

VOR/DME RWY 14

LOS BANOS MUNI (LSN)

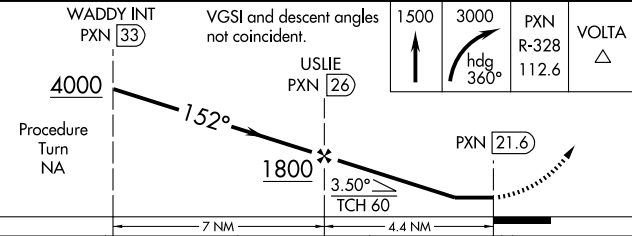
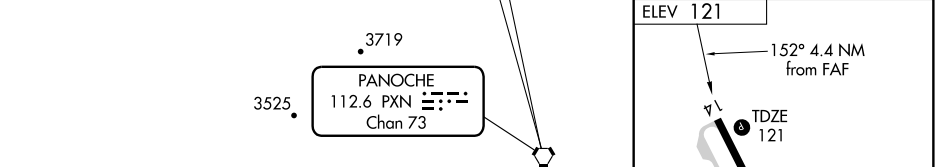
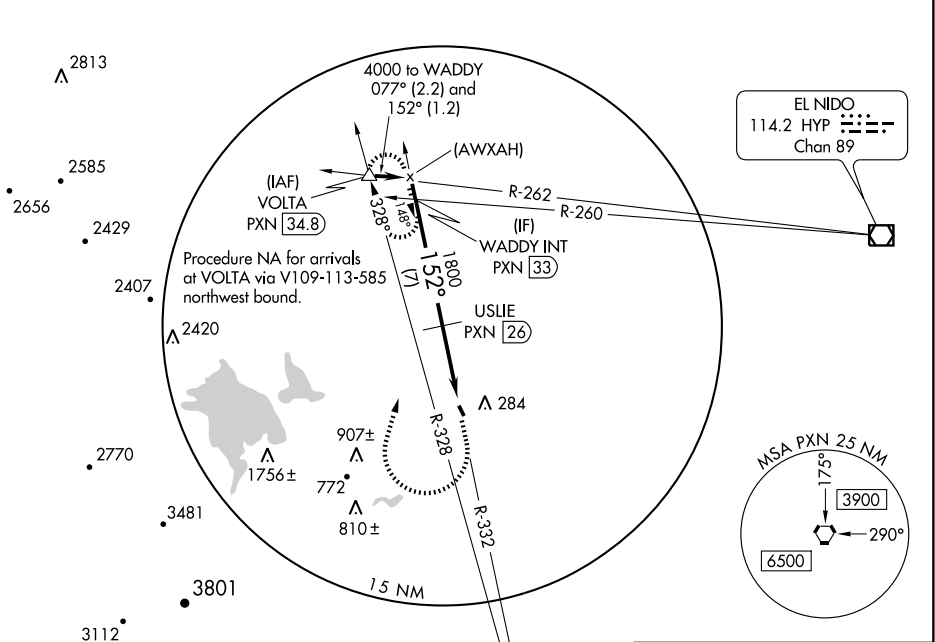
▼

NA

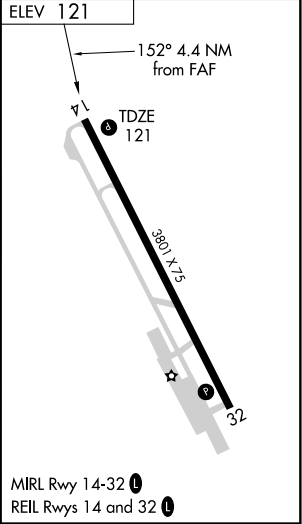
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Merced Rgnl/
Macready Field altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 1500 then climbing
right turn to 3000 via heading 360° and PXN VORTAC
R-328 to VOLTA INT/PXN 34.8 DME and hold.

AWOS-3 118.675	NORCAL APP CON 120.95 269.45	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-14	560-1 439 (500-1)	560-1¼ 439 (500-1¼)	560-1½ 439 (500-1½)	560-1¾ 439 (500-1¾)
CIRCLING	640-1 519 (600-1)	640-1¼ 519 (600-1¼)	640-1½ 519 (600-1½)	680-2 559 (600-2)



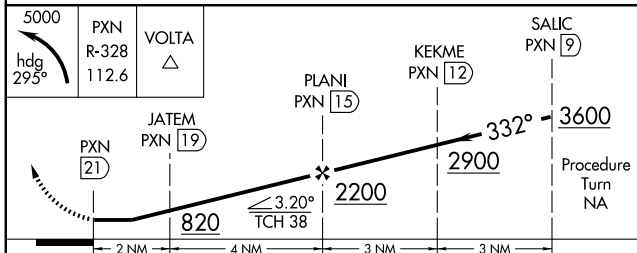
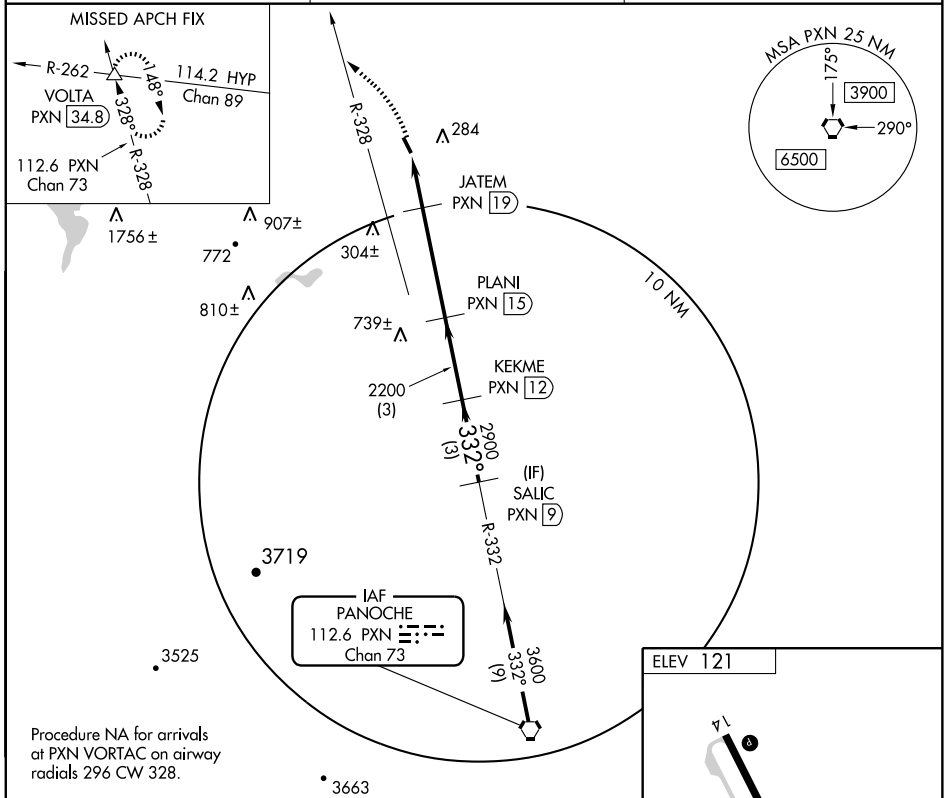
VORTAC PXN 112.6 Chan 73	APP CRS 332°	Rwy Idg TDZE Apt Elev 3801 121 121
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VOR/DME RWY 32

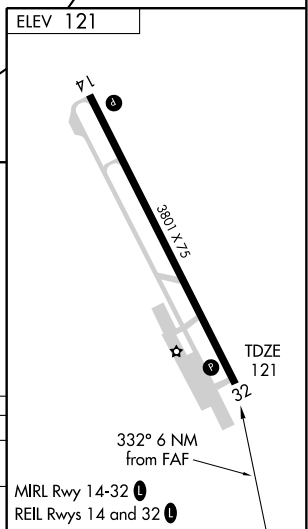
LOS BANOS MUNI (LSN)

NA When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all MDA 60 feet.	MISSED APPROACH: Climbing left turn to 5000 via heading 295° and PXN VORTAC R-328 to VOLTA INT/PXN 34.8 DME and hold.
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AWOS-3 118.675	NORCAL APP CON 120.95 269.45	UNICOM 122.8 (CTAF) 0
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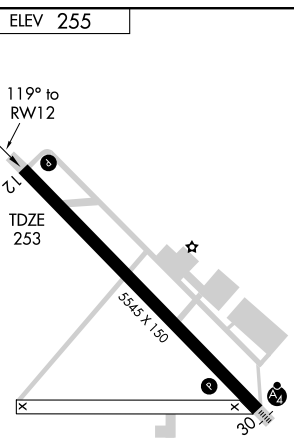
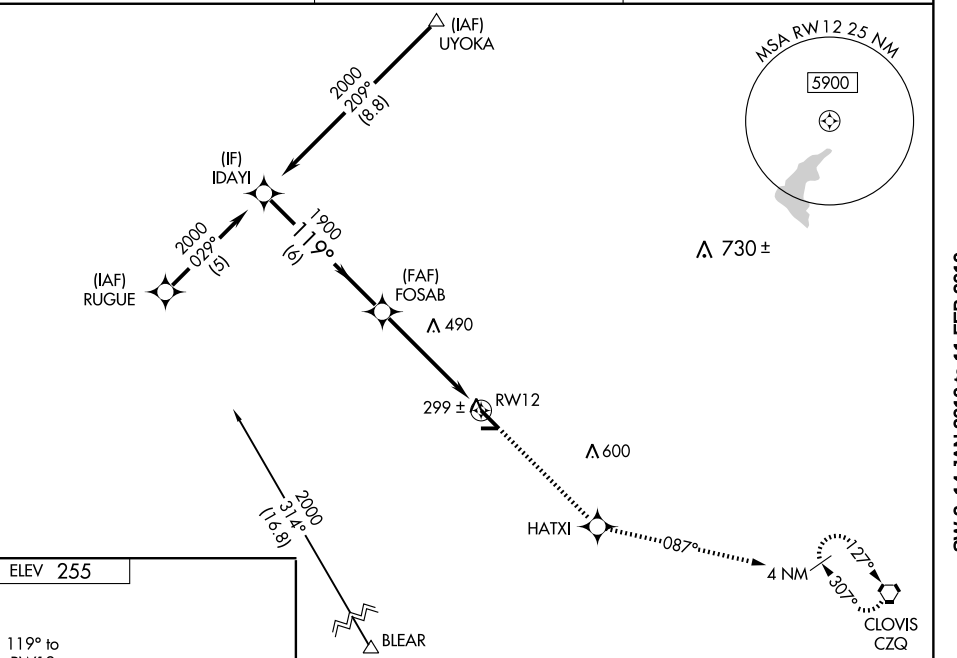
CATEGORY	A	B	C	D
S-32	580-1 459 (500-1)	580-1¼ 459 (500-1¼)	580-1½ 459 (500-1½)	580-1¾ 459 (500-1¾)
CIRCLING	640-1 519 (600-1)	640-1¼ 519 (600-1¼)	640-1½ 519 (600-1½)	680-2 559 (600-2)



ASOS
134.725

FRESNO APP CON
119.45

UNICOM
122.8 (CTAF) 0



MIRL Rwy 12-30 0

Procedure Turn NA	IDAYI	FOSAB		2000 ↑	HATXI ✦	087° track	CZQ ◡
	2000	1900		*1.6 NM to RW12		*LNAV only	
GS 3.00° TCH 34	1900		RW12				
	6 NM		3.4 NM		1.6 NM		
CATEGORY	A	B	C	D			
LPV DA	503-1 250 (300-1)		NA				
LNAV/ VNAV DA	569-1¼ 316 (400-1¼)		NA				
LNAV MDA	800-1 547 (600-1)	800-1½ 547 (600-1½)		NA			
CIRCLING	800-1 545 (600-1)	800-1½ 545 (600-1½)		NA			

SW-2, 14 JAN 2010 to 11 FEB 2010

RNAV (GPS) RWY 30

MADERA MUNI (MAE)

WAAS CH 90209 W30A	APP CRS 299°	Rwy Idg TDZE Apt Elev	5545 255 255
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▼ DME/DME RNP-0.3 NA. Circling NA to Rwy 7/25.
▲ Baro-VNAV NA when using Fresno Yosemite Intl altimeter setting.
 For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).
 When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all DA 64 feet and all visibilities ¼ mile; increase all MDA 80 feet and all visibilities ¼ mile.
 VDP NA when using Fresno Yosemite Intl altimeter setting.

MALSF

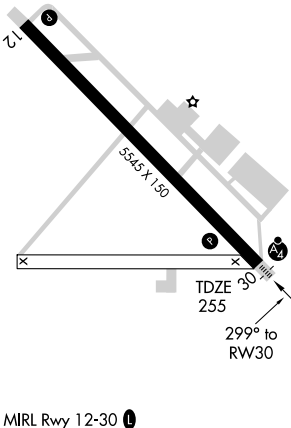
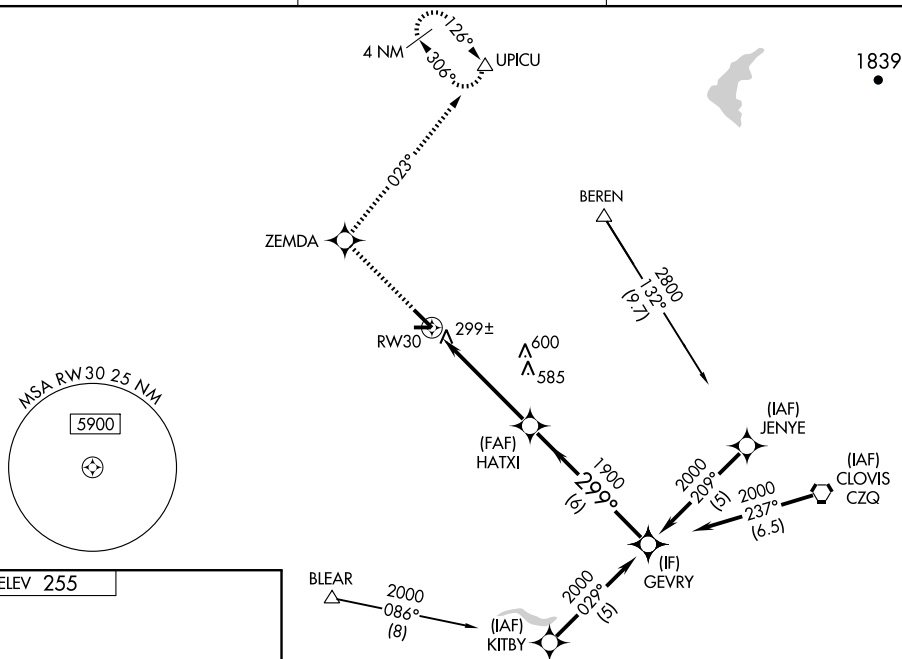


MISSED APPROACH: Climb to 2100
 direct ZEMDA and via 023° track to
 UPICU and hold.

ASOS
134.725

FRESNO APP CON
119.45

UNICOM
122.8 (CTAF) 1



2100	ZEMDA	023° track	UPICU	GEVRY	Procedure Turn NA
*LNAV only	*1.6 NM to RW30		HATXI 1900	2000	GS 3.00° TCH 34
	1.6	3.4 NM	6 NM		
CATEGORY	A	B	C	D	
LPV DA	505-1	250 (300-1)		NA	
LNAV/VNAV DA	584-1¼	329 (400-1¼)		NA	
LNAV MDA	800-1 545 (600-1)	800-1½ 545 (600-1½)		NA	
CIRCLING	800-1 545 (600-1)	800-1½ 545 (600-1½)		NA	

VORTAC CZQ	APP CRS	Rwy Idg	5545
112.9	277°	TDZE	253
Chan 76		Apt Elev	253

VOR RWY 30
MADERA MUNI (MAE)

T
ANA

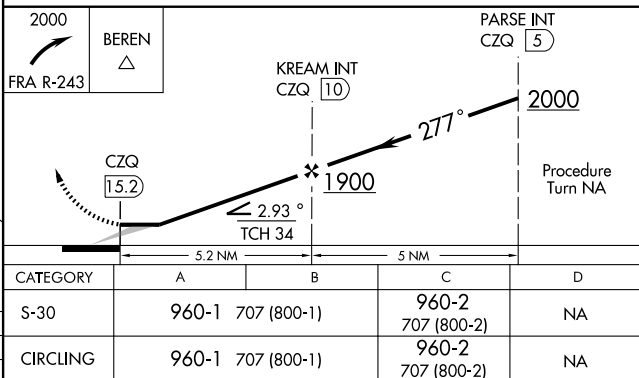
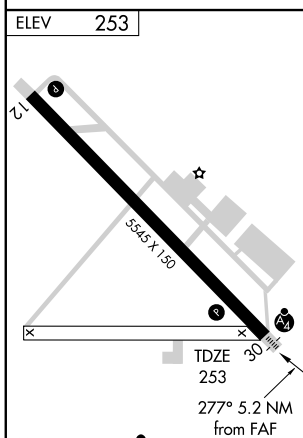
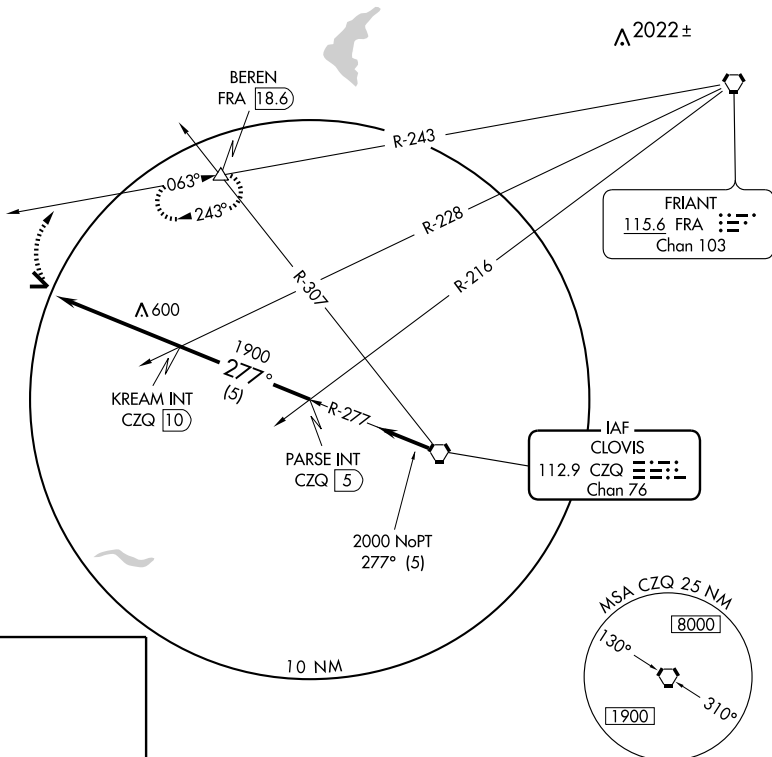
Circling to Rwy 7-25 not authorized.

MALSF

MISSED APPROACH: Climbing right turn to 2000 via FRA R-243 to BEREN Int/FRA 18.6 DME and hold.

ASOS
134.725

FRESNO APP CON
119.45

UNICOM
122.8 (CTAF) **L**

APP CRS
259°

Rwy Idg
TDZE
Apt Elev

7000
7092
7128

RNAV (GPS) RWY 27

MAMMOTH YOSEMITE (MMH)

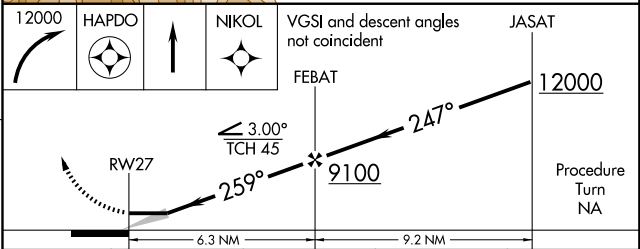
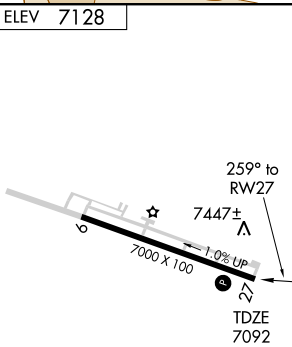
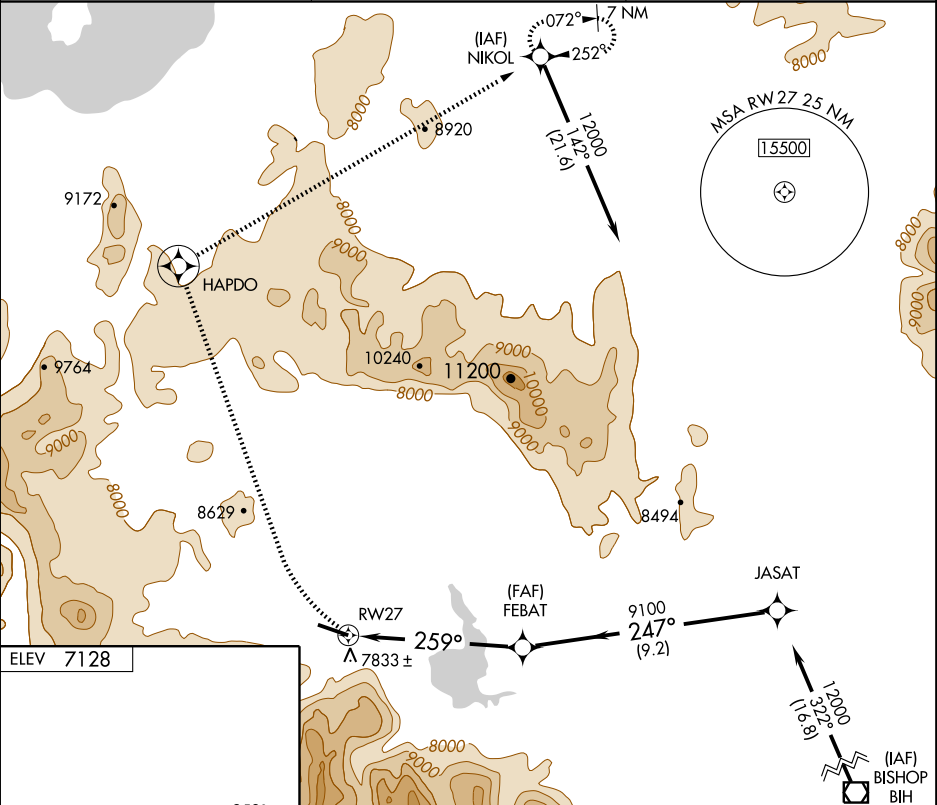
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA south of Rwy 9-27.
Circling NA at night.

MISSED APPROACH: Climbing right turn to 12000 direct
HAPDO WP then direct NIKOL WP and hold.

AWOS-3
118.05

OAKLAND CENTER
125.75 284.65

UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
LNAV MDA	8380-1¼ 1288 (1300-1¼)	8380-1½ 1288 (1300-1½)	8380-3 1288 (1300-3)	NA
CIRCLING	8380-1¼ 1252 (1300-1¼)	8380-1½ 1252 (1300-1½)	8380-3 1252 (1300-3)	NA

REIL Rwy 27

MIRL Rwy 9-27

APP CRS 108°	Rwy Idg TDZE Apt Elev	3483 134 134
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RNAV (GPS) RWY 11
MARINA MUNI (OAR)

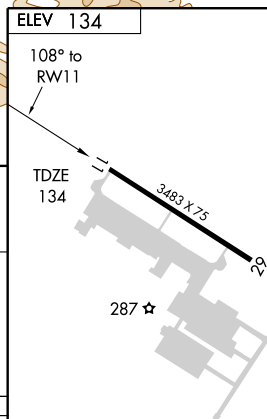
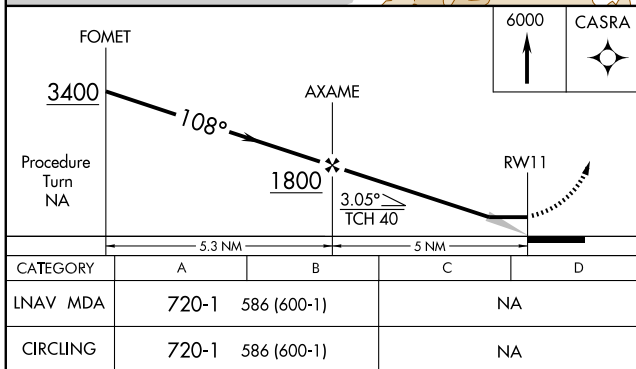
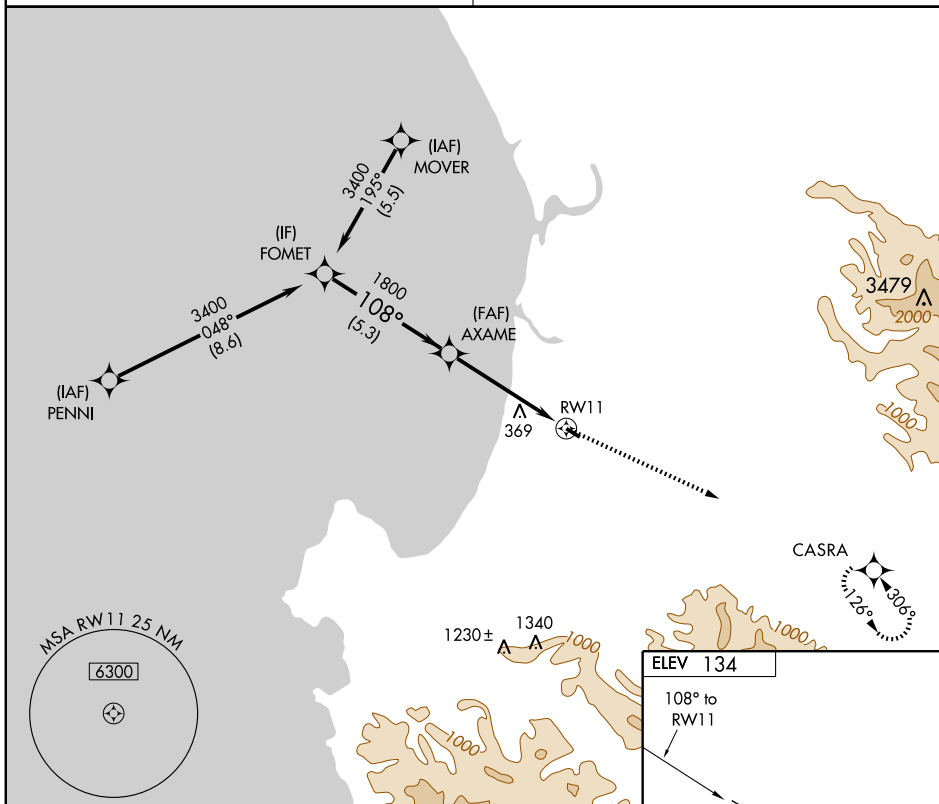
T Use Monterey altimeter setting.

A NA GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 direct CASRA WP and hold.

NORCAL APP CON
133.0 251.15

UNICOM
122.7 (CTAF) **L**

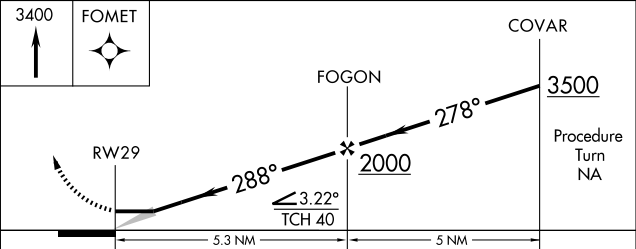
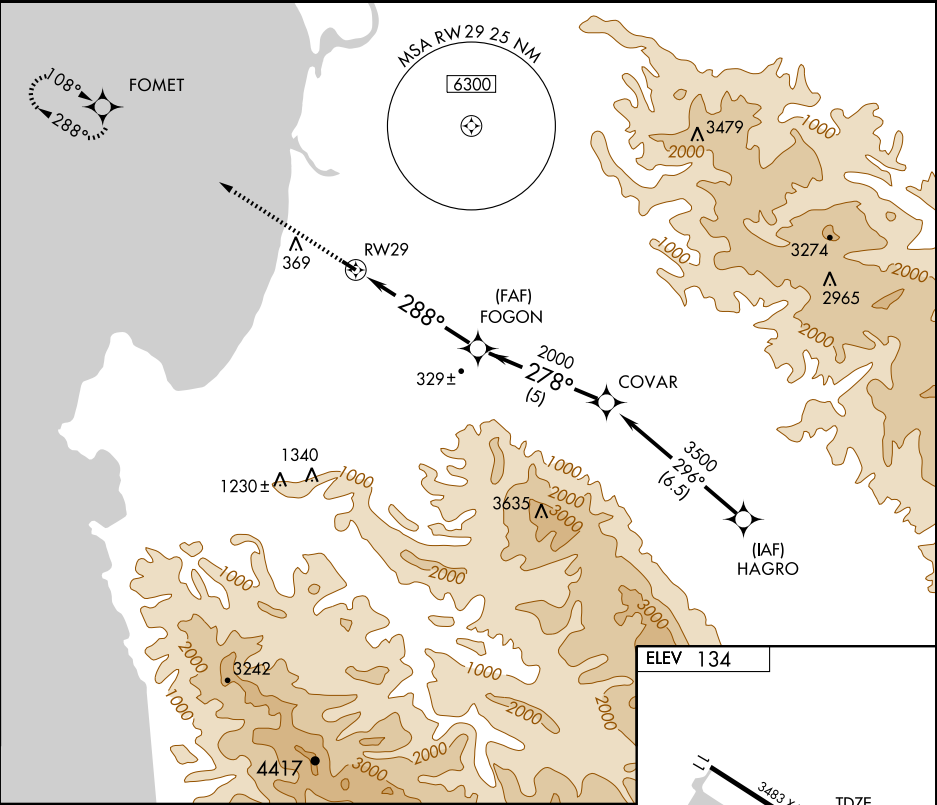
MIRL Rwy 11-29 **L**

APP CRS	Rwy Idg	3483
288°	TDZE	134
	Apt Elev	134

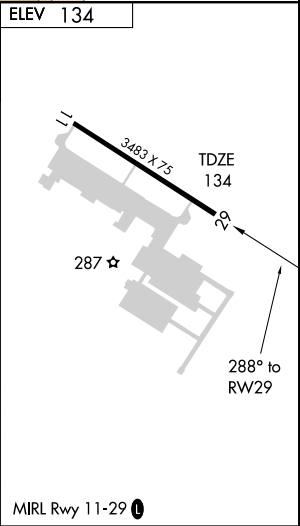
RNAV (GPS) RWY 29

MARINA MUNI (OAR)

▼ Use Monterey altimeter setting. ▲ NA GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 3400 direct FOMET WP and hold.
NORCAL APP CON 133.0 251.15	UNICOM 122.7 (CTAF) 1



CATEGORY	A	B	C	D
RNAV MDA	620-1	486 (500-1)	NA	
CIRCLING	700-1	566 (600-1)	NA	



VORTAC SNS <u>117.3</u> Chan 120	APP CRS 260°	Rwy Idg 3483 TDZE 134 Apt Elev 134
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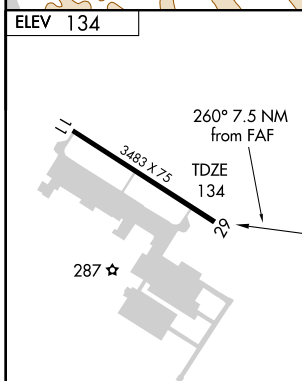
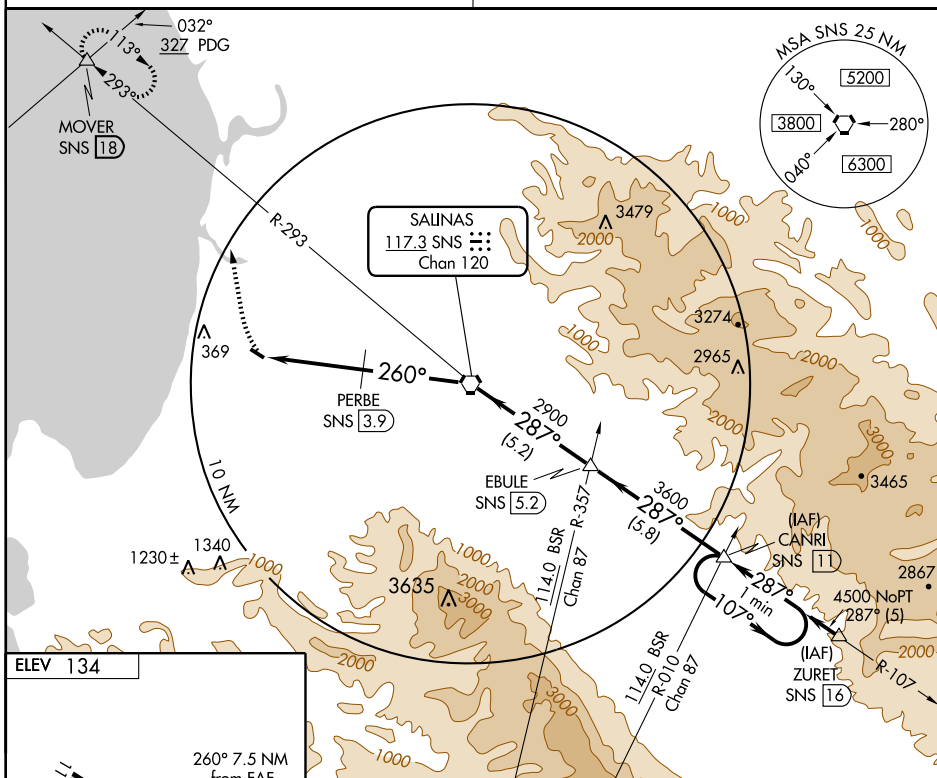
VOR/DME RWY 29
MARINA MUNI (OAR)

T
A NA Use Monterey altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 via heading 332° and SNS R-293 to MOVER INT/SNS 18 DME and hold.

NORCAL APP CON
133.0 251.15

UN|COM
122.7 (CTAF) **L**

MIRL Rwy 11-29 **L**

Knots	60	90	120	150	180
Min:Sec					

3000 332°	SNS R-293	MOVER △	EBULE INT SNS <u>5.2</u> CANRI INT SNS <u>11</u>		
SNS <u>7.5</u> 3.43° TCH 40° 1500	PERBE SNS <u>3.9</u> 260°	VORTAC 2900	287° 3600	107° → 4500 ← 287° One Minute Holding Pattern	
3.6 NM		3.9 NM	5.2 NM	5.8 NM	
CATEGORY	A	B	C	D	
S-29	660-1 526 (600-1)		NA		
CIRCLING	680-1 546 (600-1)	720-1 586 (600-1)	NA		

VORTAC SNS 117.3 Chan 120	APP CRS 082°	Rwy Idg 3483 TDZE 134 Apt Elev 134
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VOR RWY 11
MARINA MUNI (OAR)

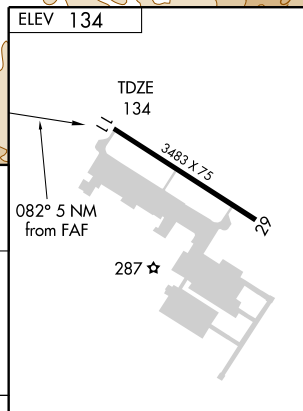
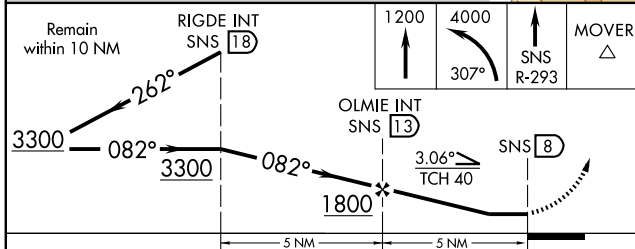
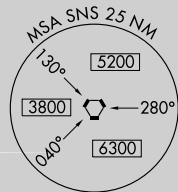
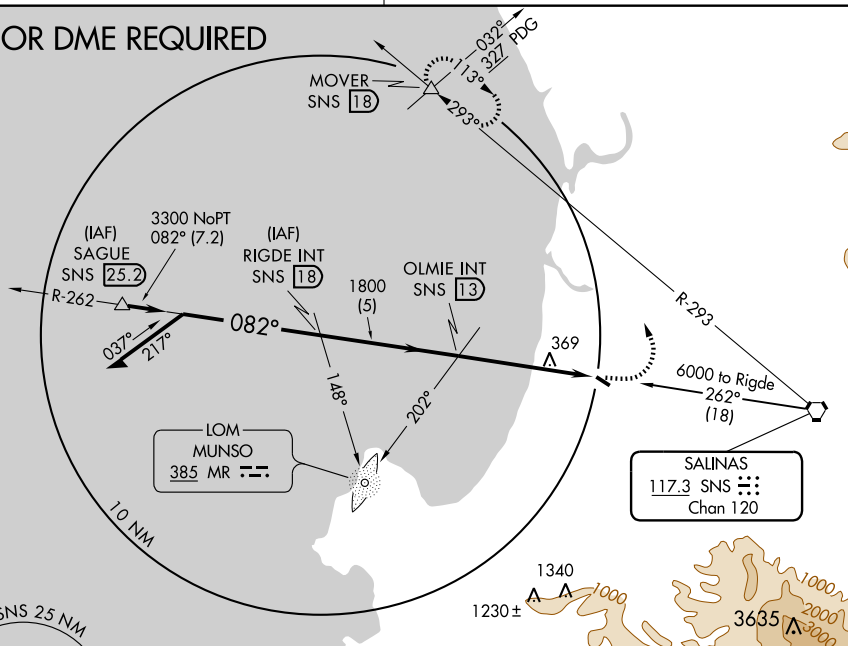
[illegible]

MISSED APPROACH: Climb to 1200, then climbing left turn to 4000 via heading 307° and SNS R-293 to MOVER Int/SNS 18 DME and hold.

NORCAL APP CON
133.0 251.15

UNICOM
122.7 (CTAF) **L**

ADF OR DME REQUIRED



CATEGORY	A	B	C	D
S-11	720-1	586 (600-1)	NA	
CIRCLING	720-1	586 (600-1)	NA	

MIRL Rwy 11-29 1					
FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

▼

NA

DME/DME RNP-0.3 NA.

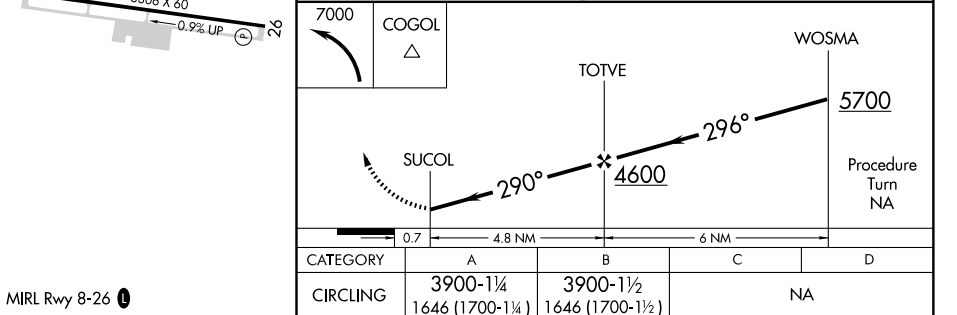
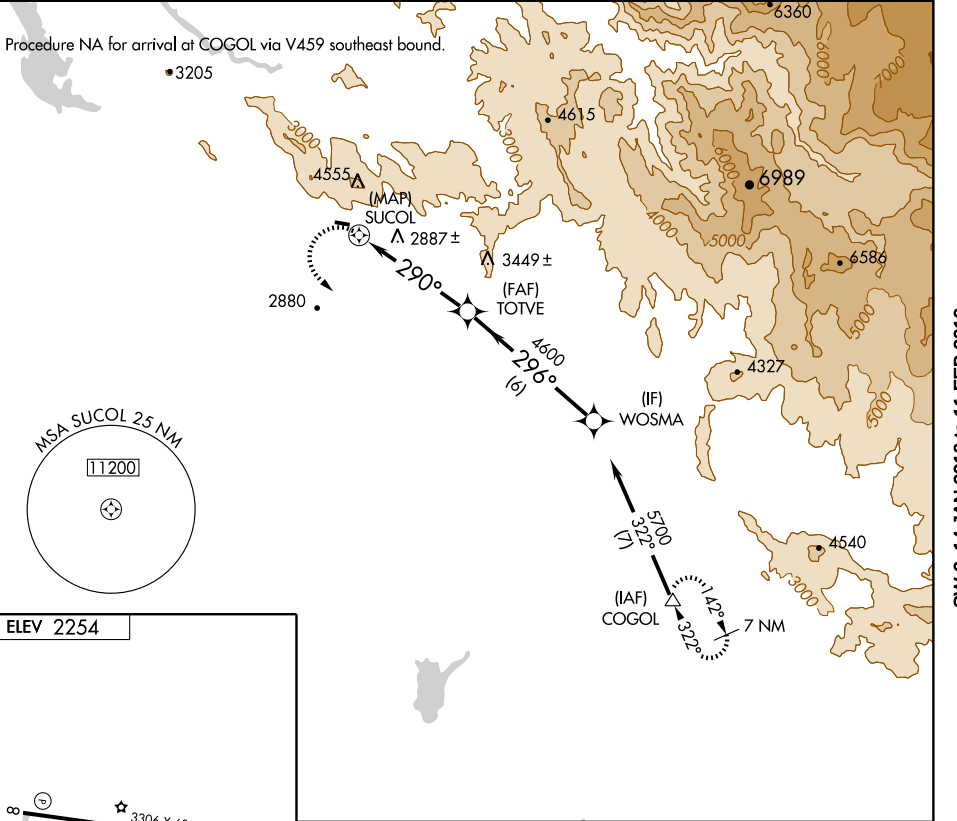
Circling not authorized north of Rwy 8-26.

Procedure not authorized at night.

If local altimeter setting not received, use Atwater altimeter setting and increase all MDAs 350 feet.

MISSED APPROACH: Climbing left turn to 7000 direct COGOL and hold.

AWOS-3 135.6	OAKLAND CENTER 121.25 327.0	UNICOM 122.7 (CTAF) 0
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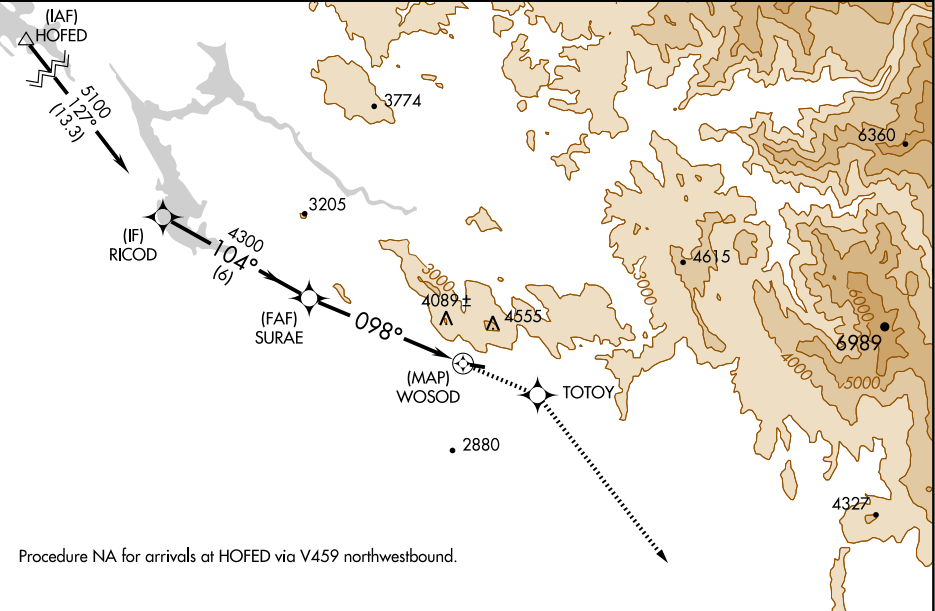
APP CRS	Rwy Idg	N/A
098°	TDZE	N/A
	Apt Elev	2254

RNAV (GPS)-B

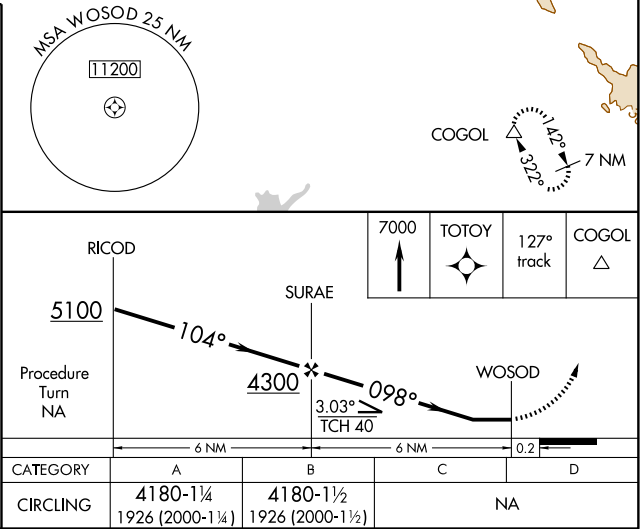
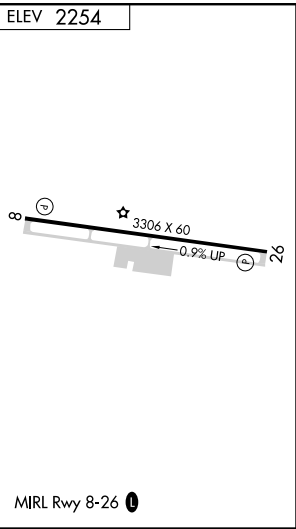
MARIPOSA-YOSEMITE (MPI)

▼ NA DME/DME RNP- 0.3 NA. Circling not authorized north of Rwy 8-26. Procedure not authorized at night. If local altimeter setting not received, use Atwater altimeter setting and increase all MDAs 350 feet. MISSED APPROACH: Climb to 7000 direct TOTOY and via 127° track to COGOL and hold.
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AWOS-3 135.6	OAKLAND CENTER 121.25 327.0	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals at HOFED via V459 northwestbound.



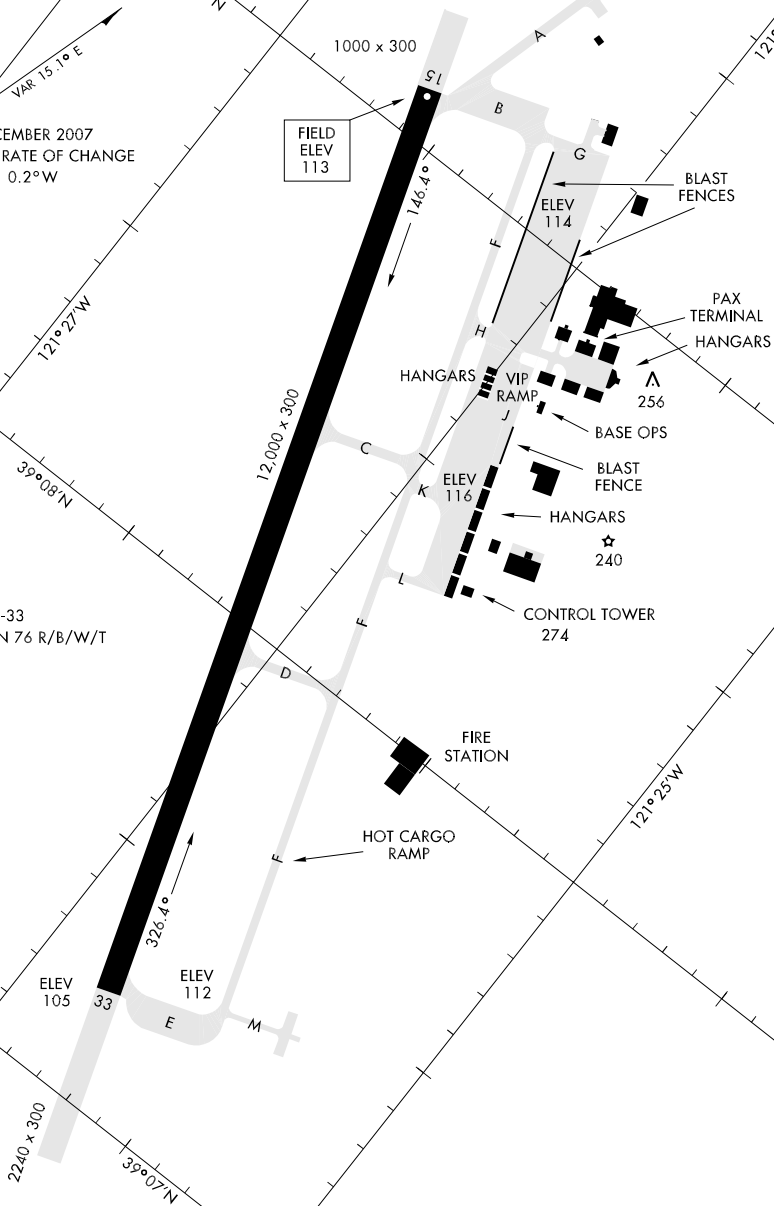
ATIS ★
273.5
BEALE TOWER ★
119.4 276.15
GND CON
121.6 257.75

DECEMBER 2007
ANNUAL RATE OF CHANGE
0.2°W



SW-2, 14 JAN 2010 to 11 FEB 2010

RWY 15-33
PCN 76 R/B/W/T



LOC I-BAB
109.5

APCH CR
145°

Rwy Idg	12,000
TDZE	113
Arpt Elev	113

JAL-771 [USAF]

BEALE AFB (KBAB)



* When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT CD vis $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

ALSF-1

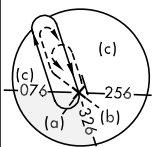
MISSED APPROACH: Climb to 3600 via BAB TACAN R-145, at FANDI, turn right, intercept BAB R-326 to HAPAK and hold.

ATIS ★
273.5

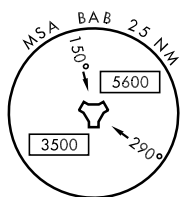
NORCAL APP CON
125.4 259.1

BEALE TOWER ★
119.4 276.15

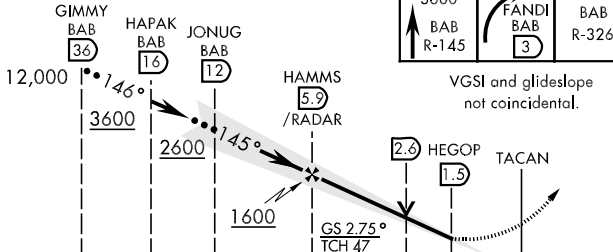
GND CON
121.6 257.75



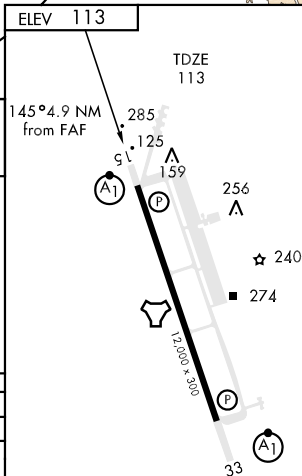
*** Circling not authorized
E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700



VGSI and glideslope
not coincidental.



CATEGORY	C	D	E
S-1LS 15 *	313/24	200	(200-½)
S-LOC 15 **	620/50	507 (600-1)	620/60 507 (600-1¼)
CIRCLING ***	620-1½ 507 (600-1½)	680-2	567 (600-2)

HIRL Rwy 15-33

LOC I-MIZ
109.5

APCH CRS
325 °

Rwy Idg	12,000
TDZE	105
Arpt Elev	113

JAL-771 [USAF]

BEALE AFB (KBAB)

- T** * When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile.
 ** When ALS inop, increase CAT CD RVR to 60
 and vis to 1¼ miles, CAT E vis to 1½ miles.



MISSED APPROACH: Climb to 3600 via
BAB TACAN R-326 to HAPAK and hold.

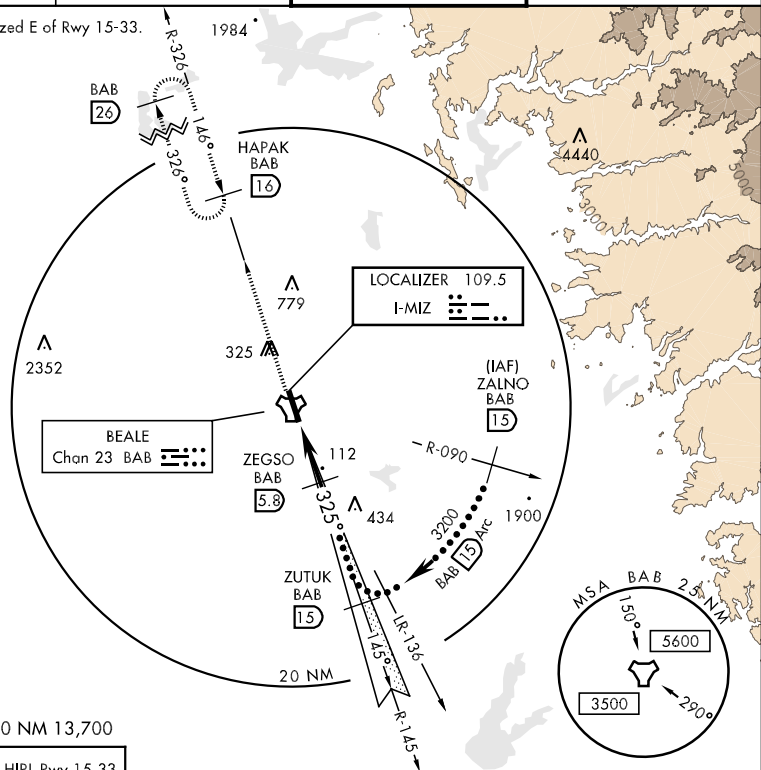
ATIS ★
273.5

NORCAL APP CON
125.4 259.1

BEALE TOWER ★
119.4 276.15

GND CON
121.6 257.75

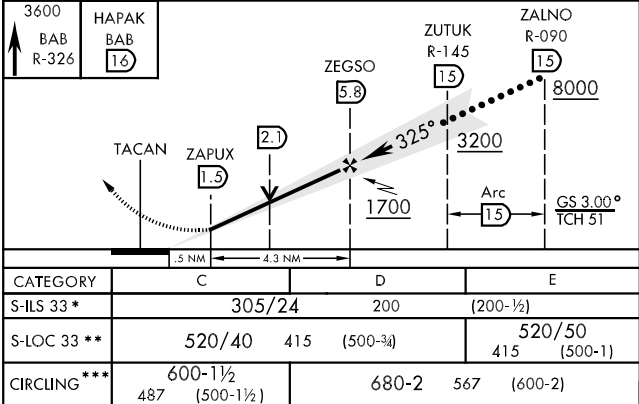
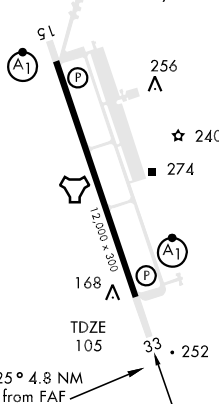
*** Circling not authorized E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700

ELEV 113

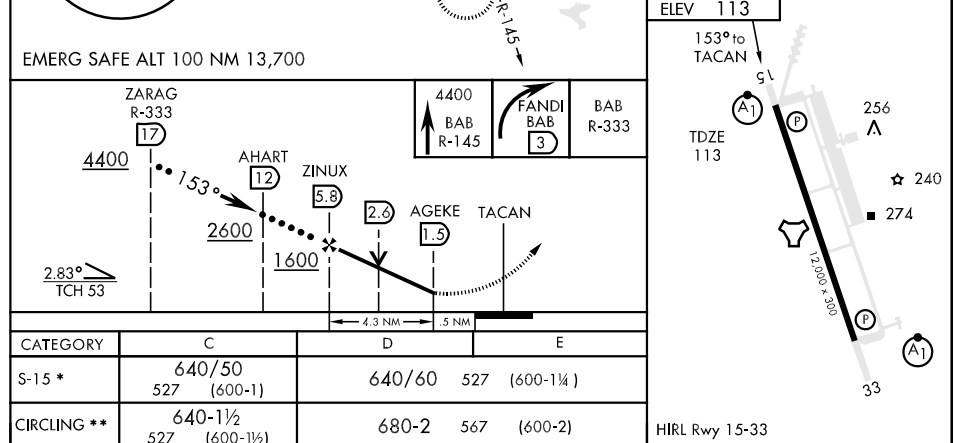
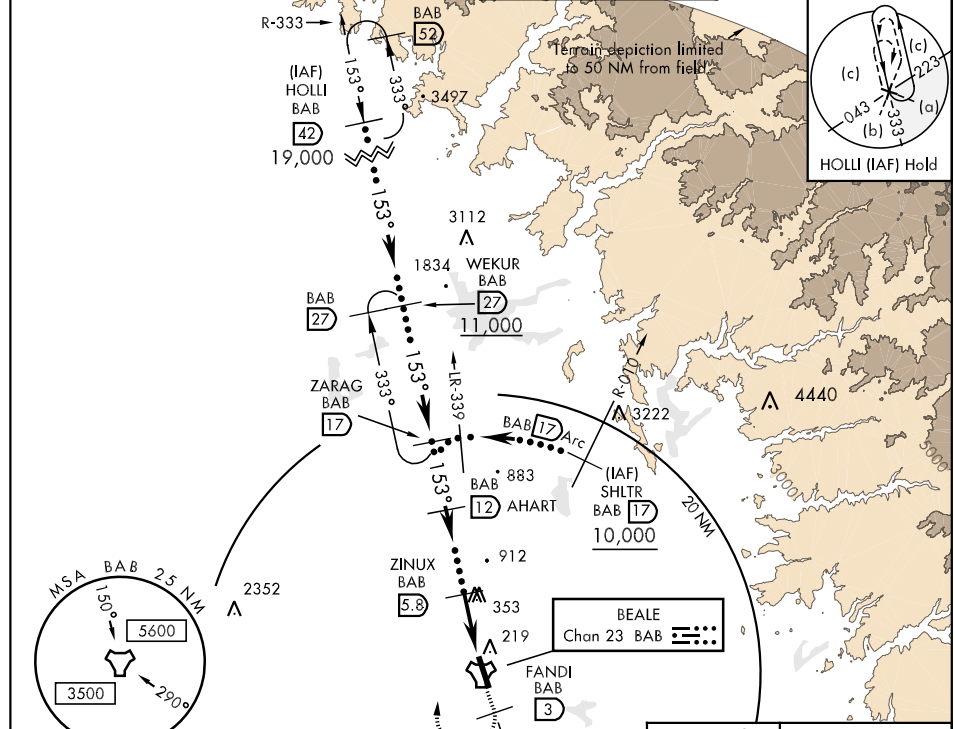
HIRL Rwy 15-33



TACAN BAB Chan 23	APCH CRS 153°	Rwy Idg 12,000 TDZE 113 Arpt Elev 113	JAL-771 [USAF]	BEALE AFB (KBAB)
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▼ * When ALS inop, increase CAT C vis to 1½ miles, CAT DE vis to 1¾ miles. ** Circling not authorized E of Rwy 15-33.	ALSF-1 	MISSED APPROACH: Climb to 4400 via BAB TACAN R-145, at FANDI, turn right, intercept BAB R-333 to ZARAG and hold, continue climb in hold to 4400.
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ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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SW-2, 14 JAN 2010 to 11 FEB 2010

TACAN BAB Chan 23	APCH CRS 317°	Rwy Idg 12,000 TDZE 105 Arpt Elev 113
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JAL-771 [USAF]

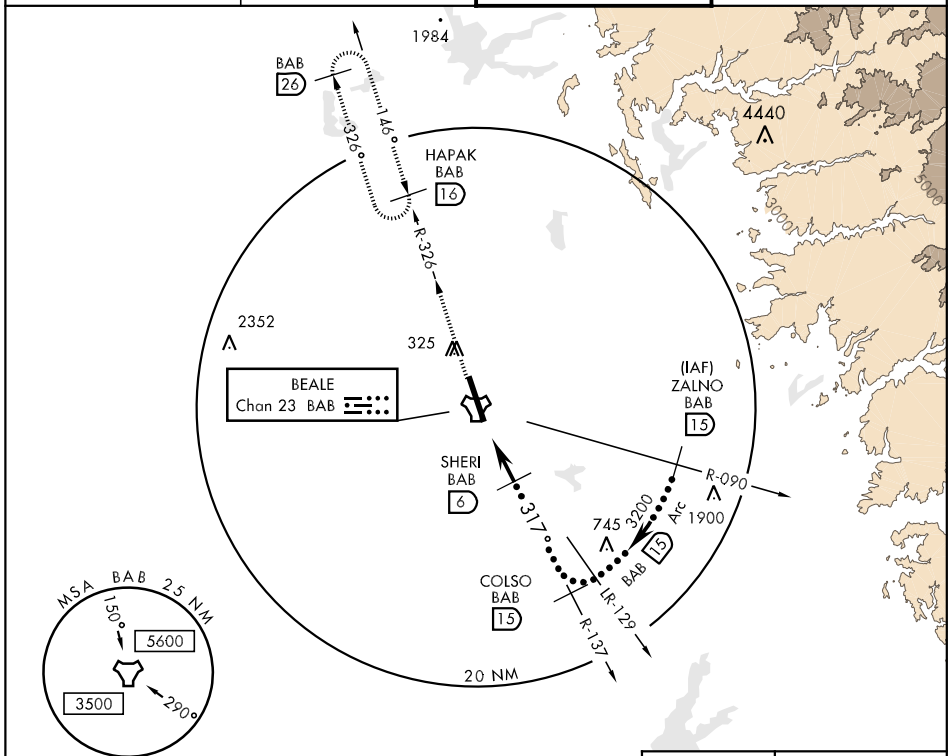
BEALE AFB (KBAB)

▼ * When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
 ** Circling not authorized E of Rwy 15-33.



MISSED APPROACH: Climb to 3600 via
 BAB TACAN R-326 to HAPAK and hold.

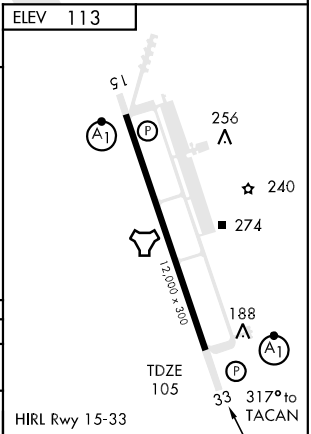
ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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SW-2, 14 JAN 2010 to 11 FEB 2010

EMERG SAFE ALT 100 NM 13,700

3600 BAB R-326	HAPAK BAB 16	COLSO R-137 15	ZALNO R-090 15
TACAN	EGUYO 1.5	SHERI 6	3200
1.5 NM	4.5 NM	317°	3200
1800	317°	3200	8000
3.09°	TCH 51		
CATEGORY	C	D	E
S-33 *	580/40 475 (500-¾)	580/50 475 (500-1)	580/60 475 (500-1¼)
CIRCLING **	600-1½ 487 (500-1½)	680-2 567 (600-2)	



LOC I-BAB
109.5

PCH CRS
145°

Rwy Idg	12,000
TDZE	113
Arpt Elev	113

AL-771 [USAF]

BEALE AFB (KBAB)

T * When ALS inop, increase all CAT RVR to 40 and vis to 3/4 mile.

▼ ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD vis to 1½ miles, CAT E vis to 1¾ miles.

ALSF-1

MISSED APPROACH: Climb to 3600 via BAB TACAN R-145, at FANDI turn right, intercept BAB R-326 to HAPAK and hold.

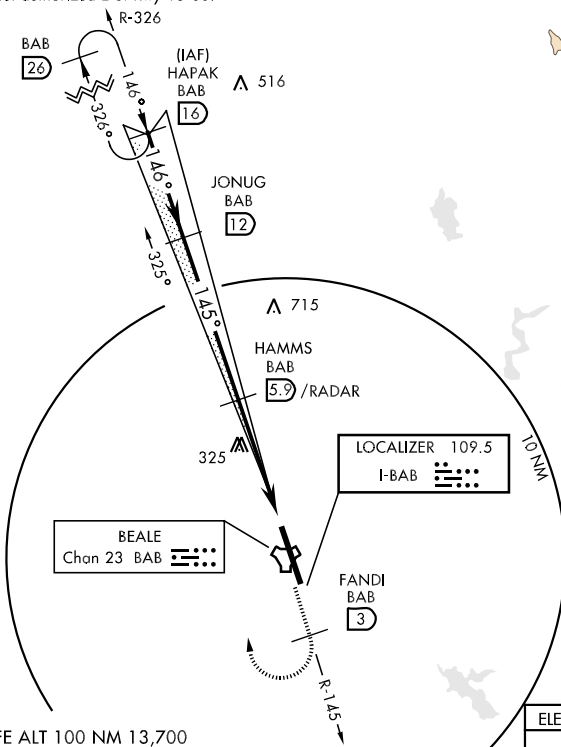
ATIS ★
273.5

NORCAL APP CON
125.4 259.1

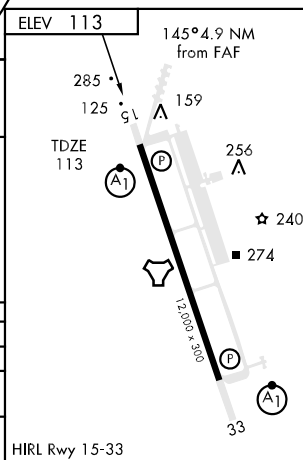
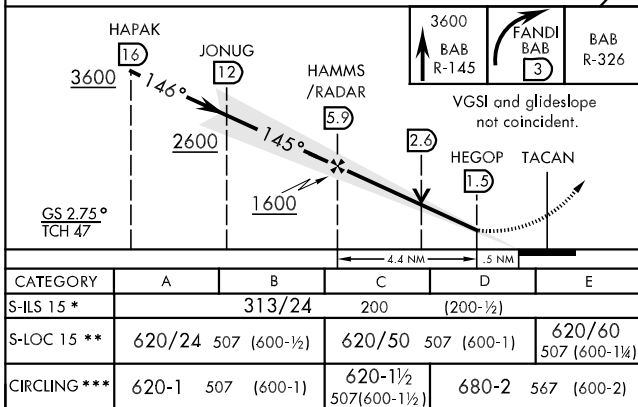
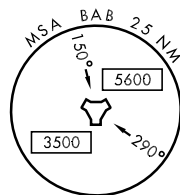
BEALE TOWER ★
119.4 276.15

	GND CON
121.6	257.75

*** Circling not authorized E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700



MARYSVILLE, CALIFORNIA

39°08'N-121° 26'W

BEALE AFB (KBAB)

Orig 09155

SW-2, 14 JAN 2010 to 11 FEB 2010

LOC I-MIZ
109.5

PCH CR
325°

Rwy Idg	12,000
TDZE	105
Arpt Elev	113

AL-771 [USAF]

BEALE AFB (KBAB)

T * When ALS inop, increase CAT ABCDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
 CAT CD RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT E vis to $1\frac{1}{2}$ miles.

ALSF-1

MISSED APPROACH: Climb to 3600 via
BAB TACAN R-326 to HAPAK and hold.

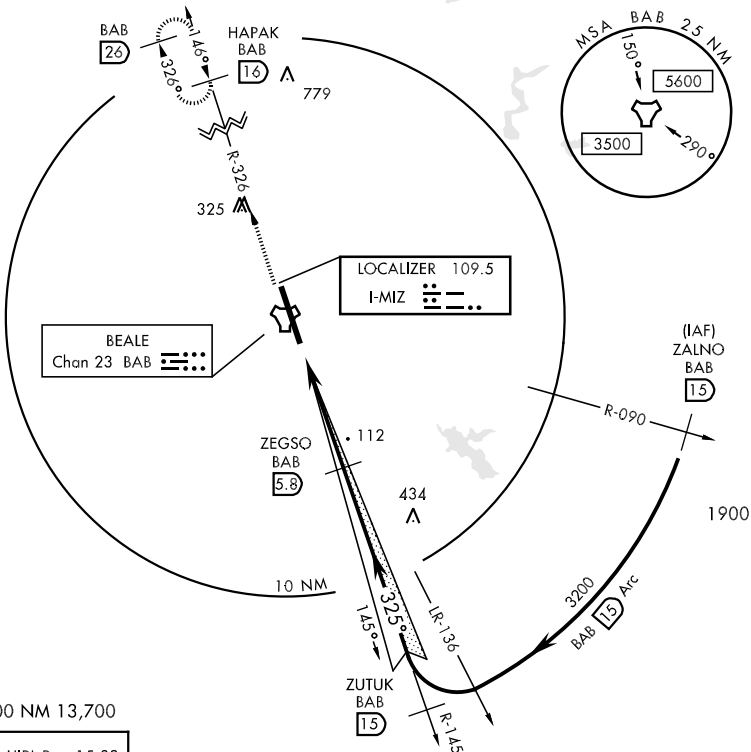
ATIS ★
273.5

NORCAL APP CON
125.4 259.1

BEALE TOWER ★
119.4 276.15

GND CON
121.6 257.75

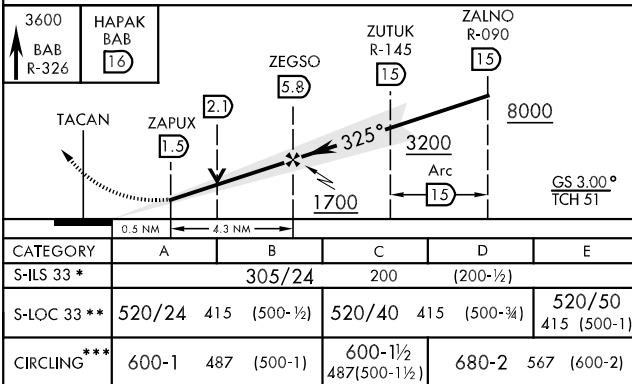
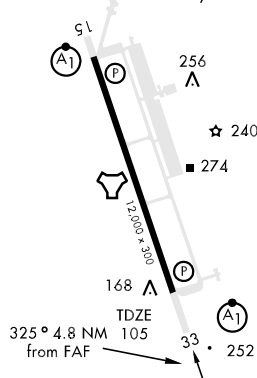
*** Circling not authorized E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700

ELEV 113

HIRL Rwy 15-33



MARYSVILLE, CALIFORNIA

39°08'N-121°26'W

BEALE AFB (KBAB)

Orig 09155

SW-2, 14 JAN 2010 to 11 FEB 2010

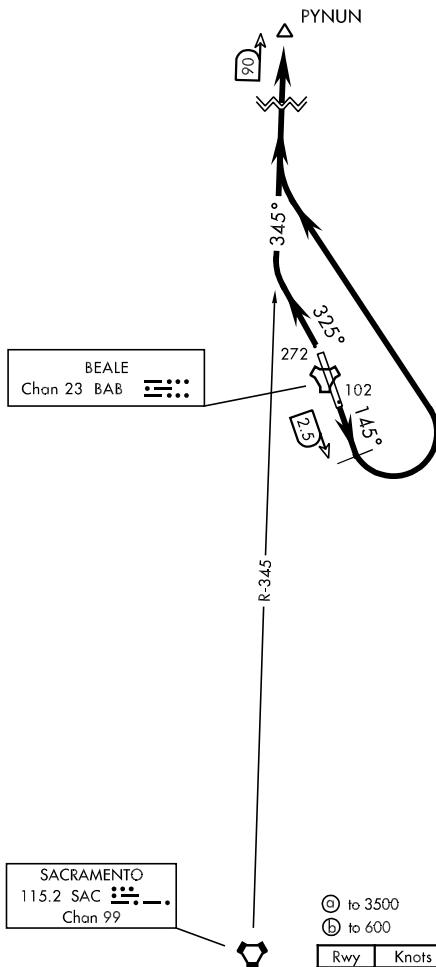
PYNUN-FOUR DEPARTURE (PYNUN4 • PYNUN)

BEALE AFB (KBAF)
MARYSVILLE, CALIFORNIA

ATIS ★ 273.5
GND CON
121.6 257.75
BEALE TOWER ★
119.4 276.15
NORCAL DEP CON
125.4 259.1

SHL-771 [USAF]

6768



Ⓐ to 3500

Ⓑ to 600

Minimum Climb Rate

Rwy	Knots	60	120	180	240	300	360
15 Ⓐ	V/V(fpm)	260	520	780	1040	1300	1560
33 Ⓑ	V/V(fpm)	260	520	780	1040	1300	1560

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 15: Fly heading 145° until BAB TACAN 2.5 DME, turn left intercept SAC VORTAC R-345 to PYNUN. Then via assigned route.

TAKE-OFF RWY 33: Fly heading 325° intercept SAC VORTAC R-345 to PYNUN. Then via assigned route.

TACAN BAB Chan 23	APCH CRS 153°	Rwy Idg 12,000 TDZE 113 Arpt Elev 113
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AL-771 [USAF]

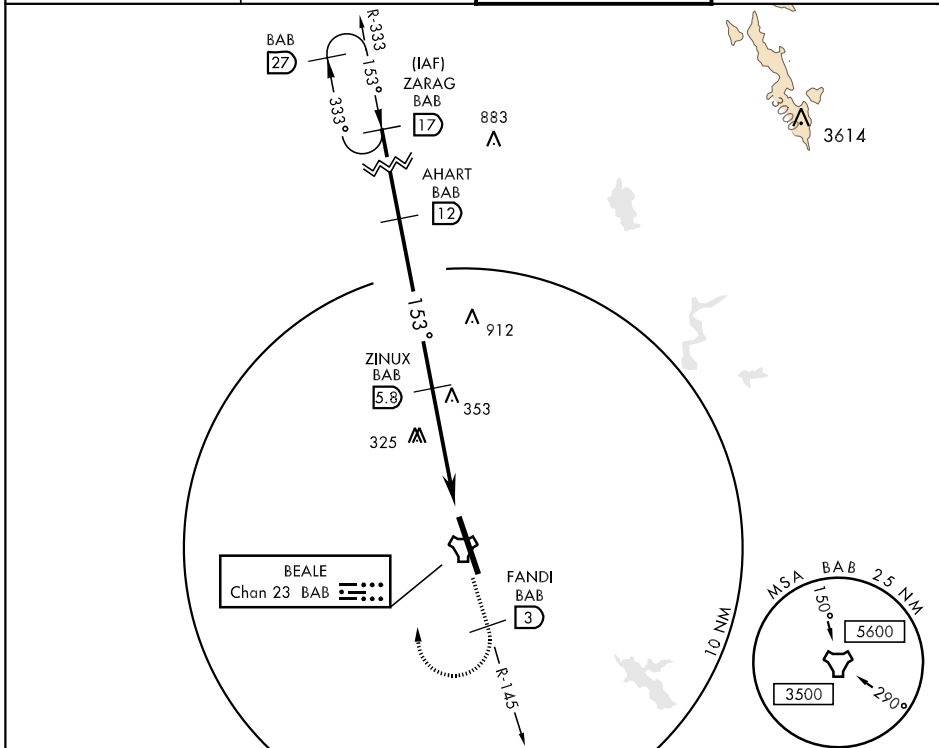
BEALE AFB (KBAB)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.
 ** Circling not authorized E of Rwy 15-33.

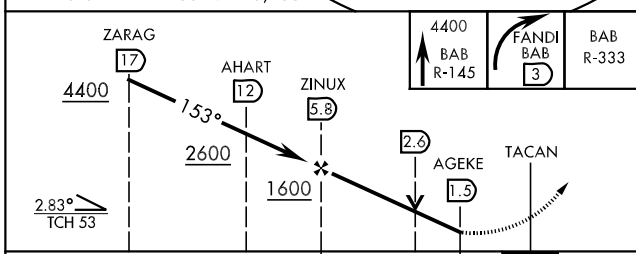


MISSED APPROACH: Climb to 4400 via BAB TACAN R-145, at FANDI, turn right, intercept BAB R-333 to ZARAG and hold, continue climb in hold to 4400.

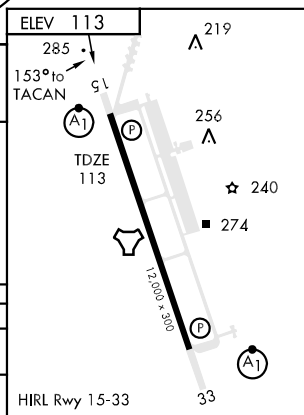
ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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EMERG SAFE ALT 100 NM 13,700



CATEGORY	A	B	C	D	E
S-15 *	640/24 527 (600-½)		640/50 527 (600-1)	640/60 527 (600-1½)	
CIRCLING **	640-1 527 (600-1)		640-1½ 527 (600-1½)	680-2 567 (600-2)	



TACAN BAB Chan 23	APCH CRS 317°	Rwy ldg 12,000 TDZE 105 Arpt Elev 113
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AL-771 [USAF]

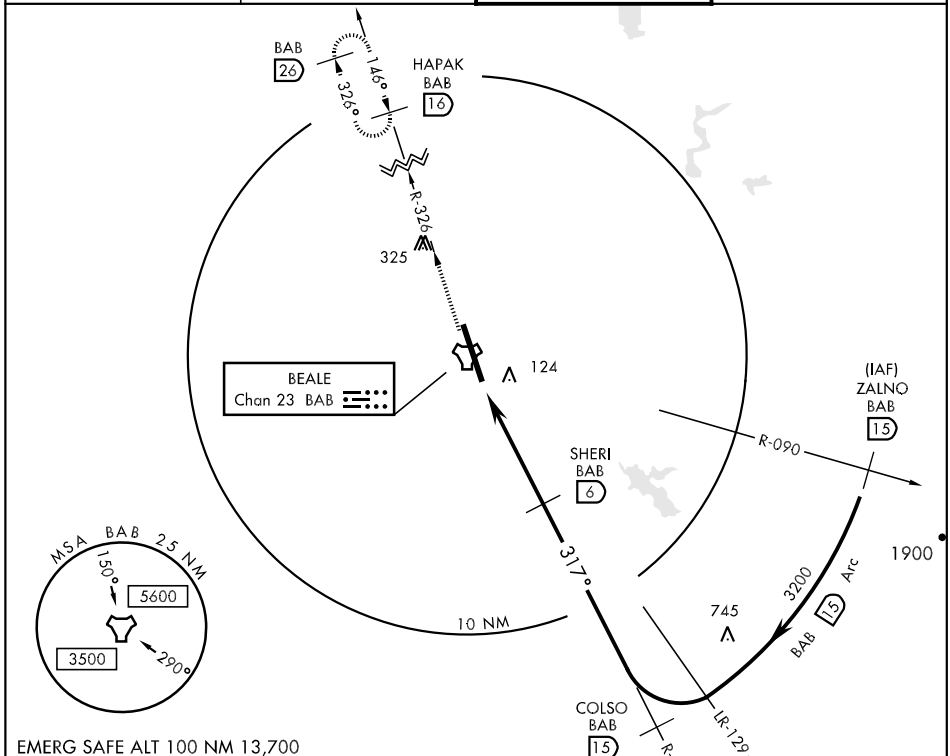
BEALE AFB (KBAB)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
 ** Circling not authorized E of Rwy 15-33.

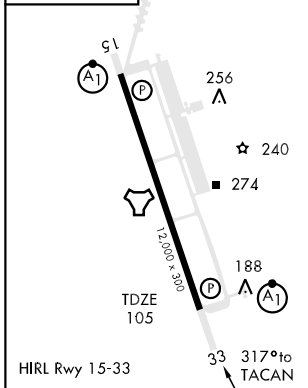


MISSED APPROACH: Climb to 3600 via BAB TACAN R-326 to HAPAK and hold.

ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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ELEV 113



3600 BAB R-326		HAPAK BAB 16		SHERI 6		COLSO R-137 15		ZALNO R-090 15		
TACAN		EGUYO 1.5 2.3		317° 1800		3200 Arc 15		8000 3.09° TCH 51		
0.5 NM		4.5 NM								
CATEGORY	A		B		C		D		E	
S-33 *	580/24 475 (500-½)				580/40 475 (500-¾)		580/50 475 (500-1)		580/60 475 (500-1¼)	
CIRCLING **	600-1 487 (500-1)				600-1½ 487 (500-1½)		680-2		567 (600-2)	

LOC I-MYV <u>110.5</u>	APP CRS 141°	Rwy Idg 6006 TDZE 61 Apt Elev 62
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ILS or LOC RWY 14

MARYSVILLE/ YUBA COUNTY (MYV)

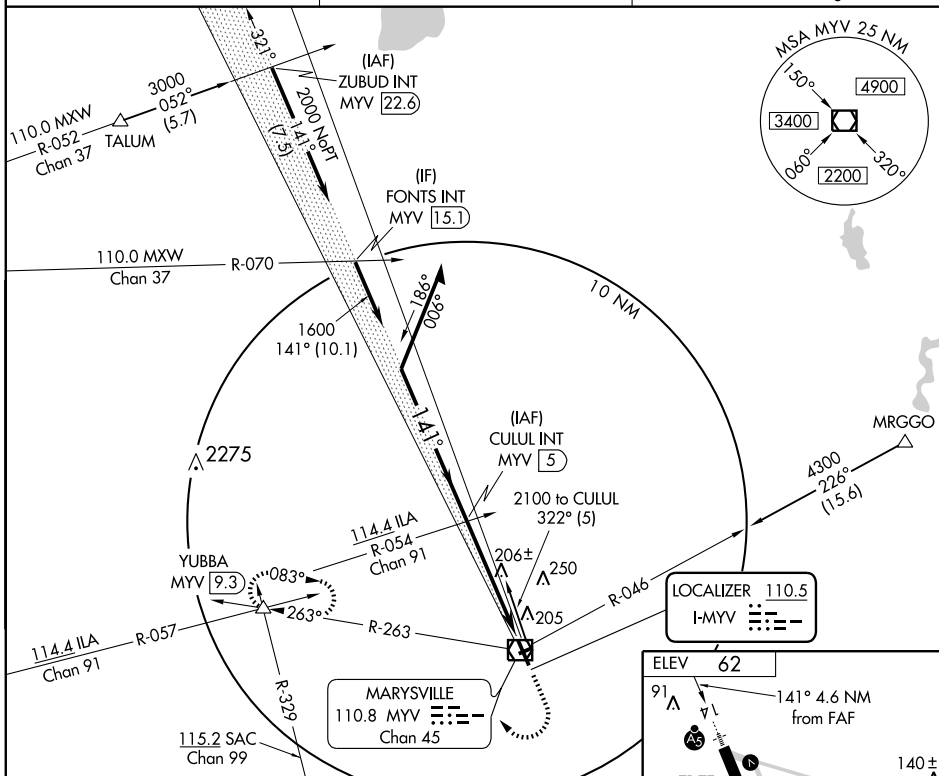
T If local altimeter setting not received, use
A **NA** Oroville Muni altimeter setting and increase
all DAs/MDAs 80 feet.
Autopilot coupled approach NA below 576.

MALSR

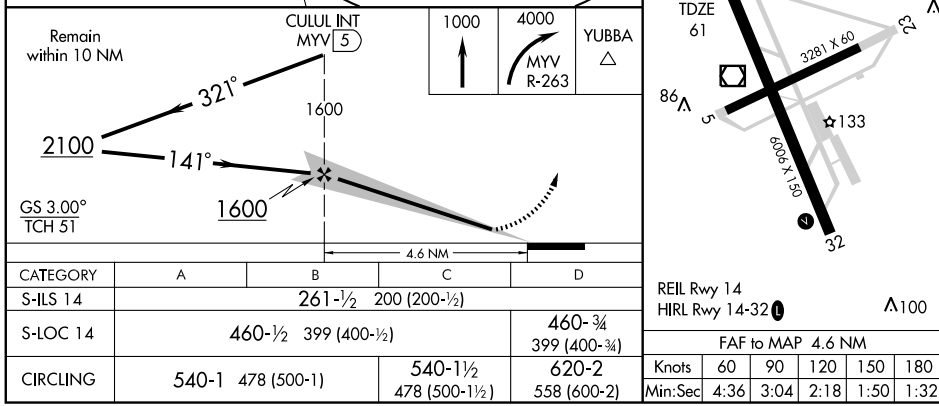


MISSED APPROACH: Climb to 1000, then climbing right turn to 4000 via MYV R-263 to YUBBA INT/MYV VOR/DME 9.3 DME and hold. Continue climb in hold to 4000.

ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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SW-2. 14 JAN 2010 to 11 FEB 2010



WAAS CH 42814 W14A	APP CRS 141°	Rwy Idg 6006 TDZE 64 Apt Elev 64
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RNAV (GPS) RWY 14

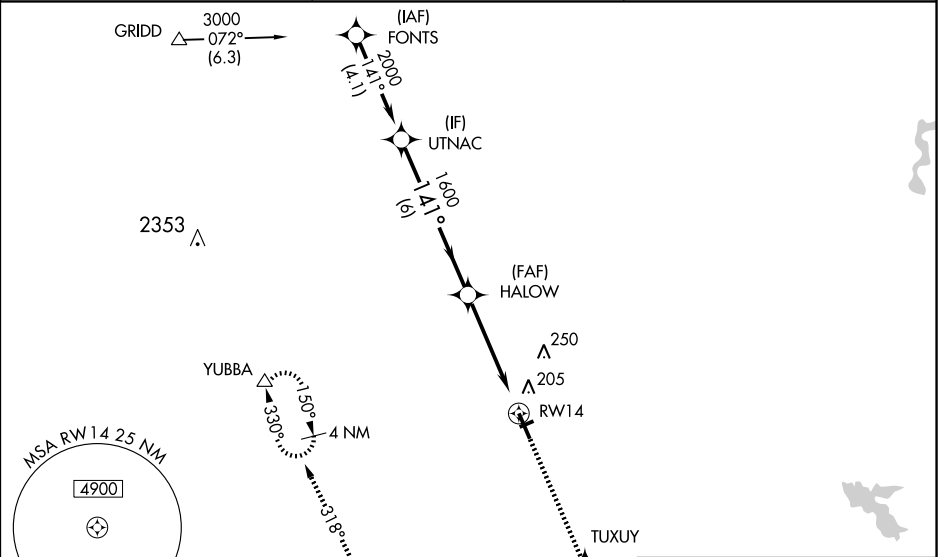
MARYSVILLE/YUBA COUNTY (MYV)

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV and VDP NA when using Lincoln altimeter setting. When local altimeter setting not received, use Lincoln altimeter setting and increase all DA 44 feet and all MDA 60 feet. Inoperative table does not apply to LPV all Cats. For inoperative MALSR increase LNAV all Cats visibility ¼ mile. For inoperative MALSR when using Lincoln altimeter setting, increase LNAV Cats A and B visibility ¼ mile.

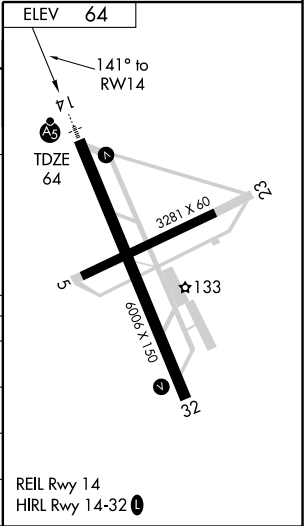


MISSED APPROACH: Climb to 4000 direct TUXUY and via track 251° to RADNE and via track 318° to YUBBA and hold.

ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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UTNAC		4000 ↑	TUXUY ✧	trk 251°	RADNE ✧	trk 318°	YUBBA △
2000 Procedure Turn NA GS 3.00° TCH 51		HALOW ✧					
		* LNAV only.					
		* 1.1 NM to RW14					
		RW14					
		6 NM					
		3.5 NM					
		1.1 NM					
CATEGORY	A	B	C	D			
LPV DA	264-¾ 200 (200-¾)						
LNAV/VNAV DA	470-1 406 (500-1)						
LNAV MDA	460-¾ 396 (400-¾)					460-1 396 (400-1)	
CIRCLING	540-1 476 (500-1)			540-1½ 476 (500-1½)		620-2 556 (600-2)	



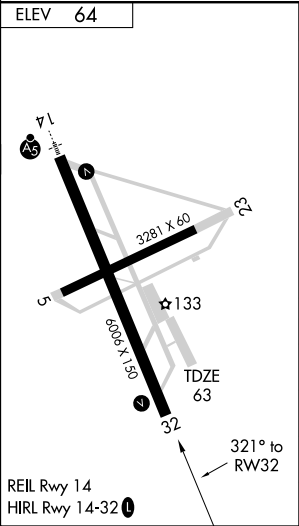
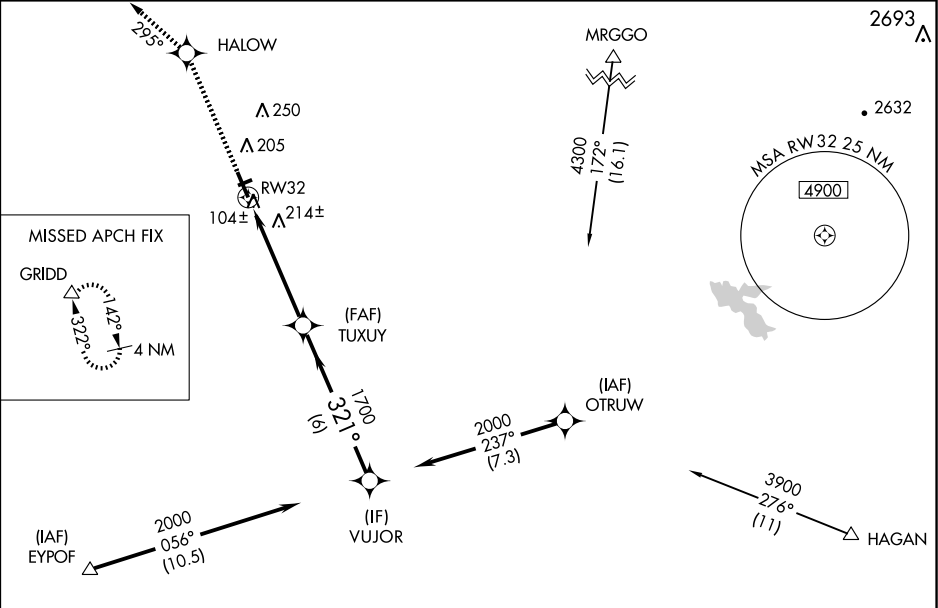
WAAS CH 87014 W32A	APP CRS 321°	Rwy Idg 6006 TDZE 63 Apt Elev 64
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RNAV (GPS) RWY 32
MARYSVILLE/ YUBA COUNTY (MYV)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lincoln altimeter setting and increase all DA 44 feet and all MDA 60 feet and increase LNAV Cat D visibility ¼ mile. Baro-VNAV and VDP NA when using Lincoln altimeter setting.

MISSED APPROACH: Climb to 4000 direct HALOW and via track 295° to GRIDD and hold.

ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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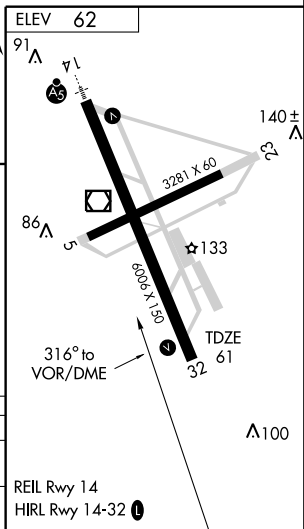
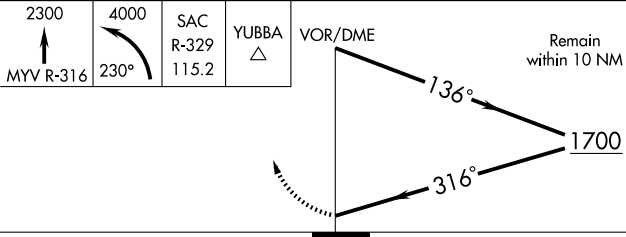
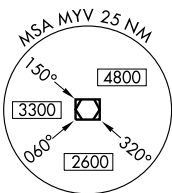
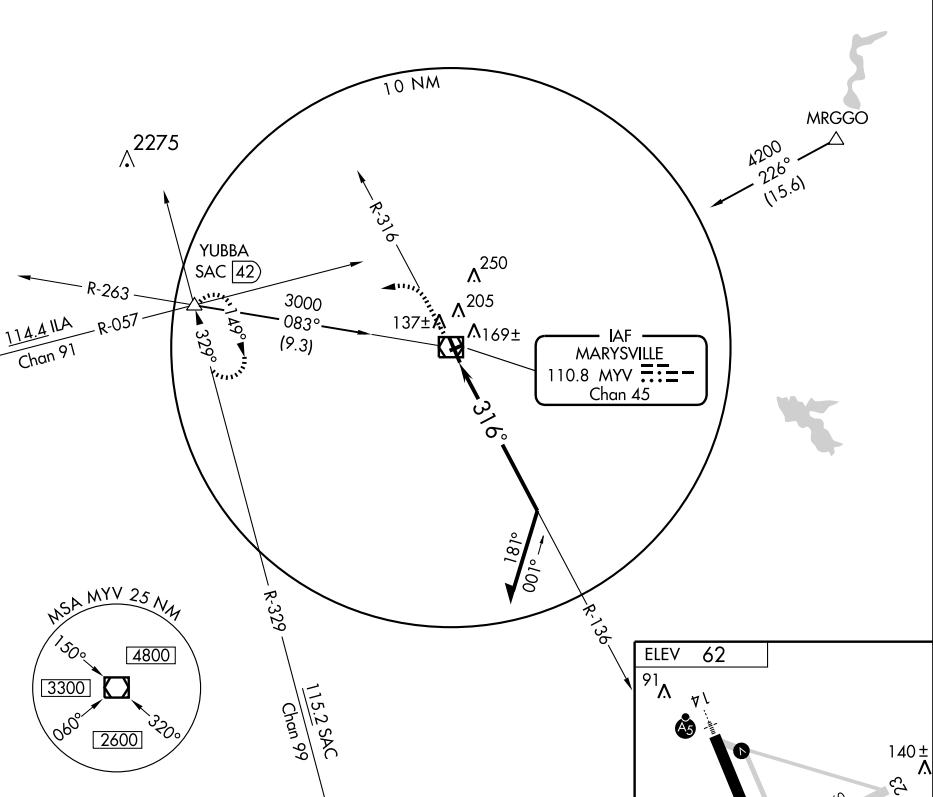


ELEV 64	4000	HALOW	trk 295°	GRIDD	*LNAV only	VUJOR	Procedure Turn NA
	↑	✧		△		2000	
			*1.2 NM to RW32	TUXUY		321°	GS 3.00° TCH 32
			1.2	3.8 NM	6 NM		
CATEGORY	A	B	C	D			
LPV DA	313-1 250 (300-1)						
LNAV/VNAV DA	374-1¼ 311 (400-1¼)						
LNAV MDA	480-1	417 (500-1)	480-1¼	417 (500-1¼)			
CIRCLING	540-1	476 (500-1)	540-1½	476 (500-1½)	620-2	556 (600-2)	

VOR/DME MYV	APP CRS	Rwy Idg	6006
110.8	316°	TDZE	61
Chan 45		Apt Elev	62

MISSED APPROACH: Climb to 2300 via MYV R-316, then climbing left turn to 4000 via heading 230° and SAC R-329 to YUBBA Int/SAC 42 DME and hold.

ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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CATEGORY	A	B	C	D
S-32	540-1	479 (500-1)	540-1¼ 479 (500-1¼)	540-1½ 479 (500-1½)
CIRCLING	540-1	478 (500-1)	540-1½ 478 (500-1½)	620-2 558 (600-2)

REIL Rwy 14
HIRL Rwy 14-32 0

GPS RWY 12

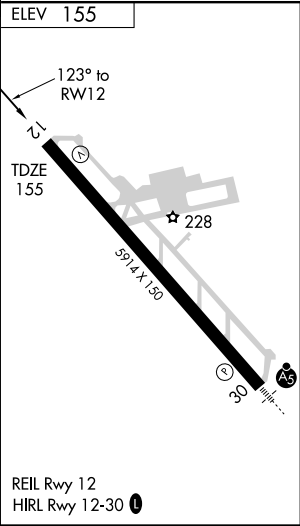
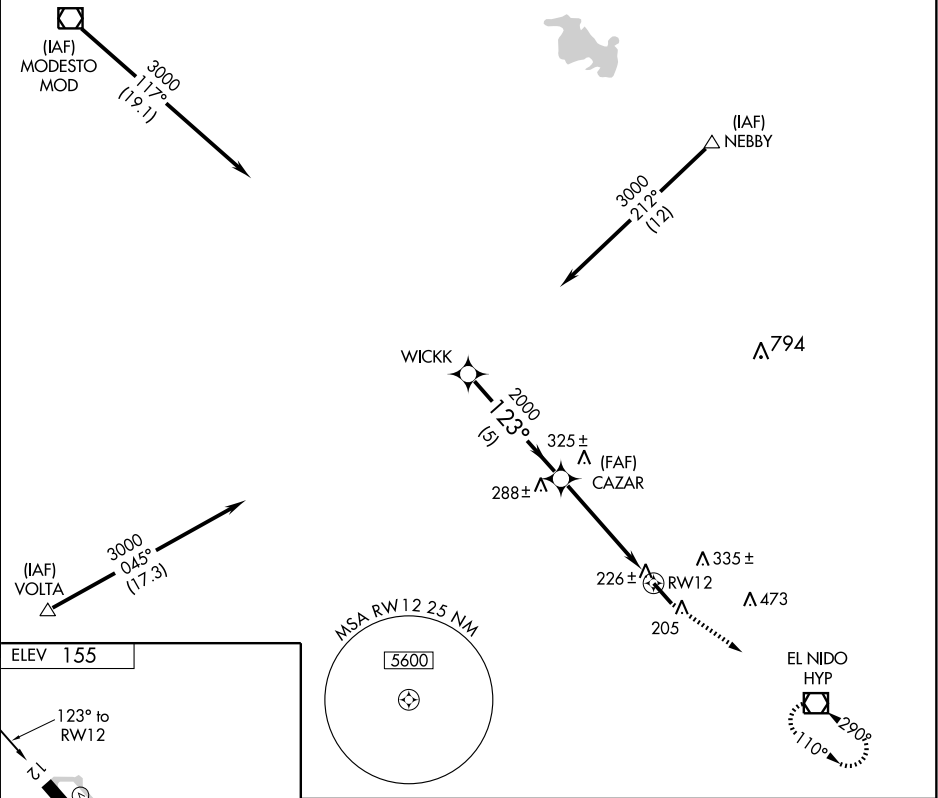
MERCED RGNL/MACREARY FIELD (MCE)

APP CRS	Rwy Idg	5914
123°	TDZE	155
	Apt Elev	155

When local altimeter setting not received, use Castle altimeter setting and increase all MDAs 20 feet. Circling NA NE of Rwy 12-30.

MISSED APPROACH: Climb to 2000 direct HYP VOR/DME and hold.

ASOS 132.175	NORCAL APP CON 120.95 269.4	UNICOM 122.7 (CTAF)
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WICKK VGS1 and descent angles not coincident				2000	HYP
CAZAR					
RW12					
Procedure Turn NA					
5 NM				5 NM	
CATEGORY	A	B	C	D	
S-12	520-1 365 (400-1)			520-1½ 365 (400-1½)	
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)	

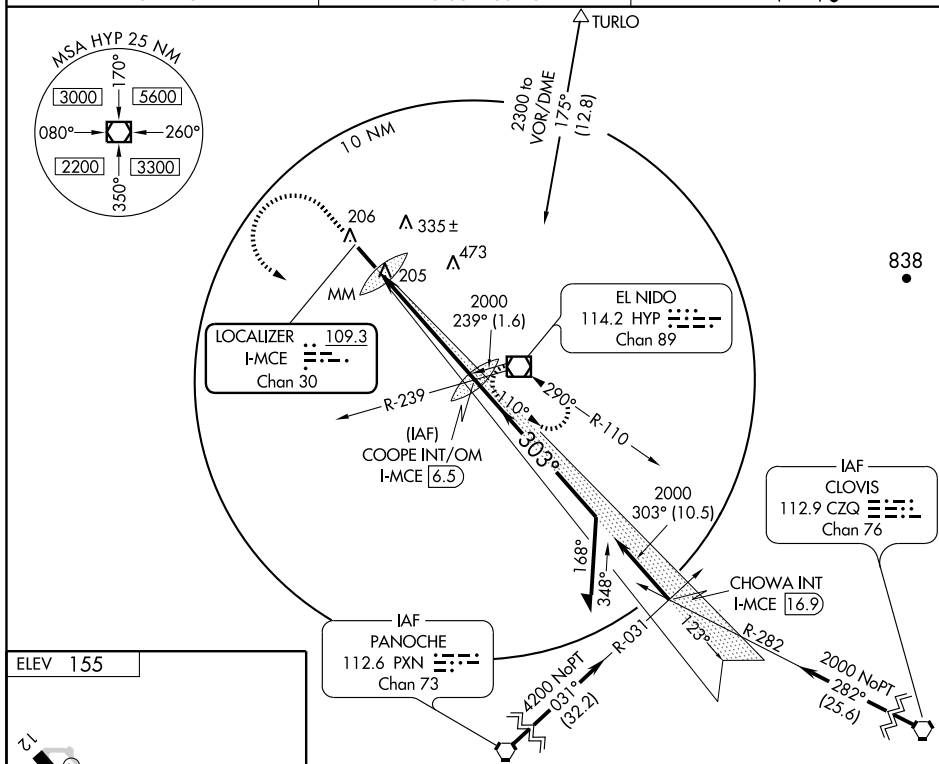
ILS or LOC RWY 30
MERCED RGNL/MACREADY FIELD (MCE)

MALSR

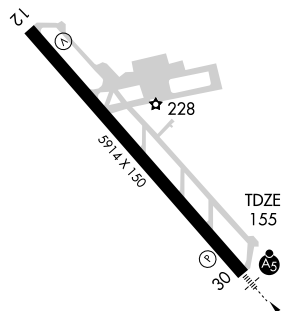


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct HYP VOR/DME and hold.

NORCAL APP CON
120.95 269.45

UNICOM
122.7 (CTAF) **L**

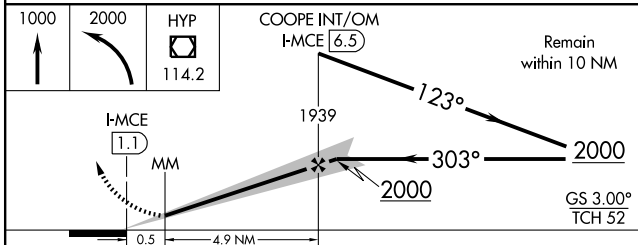
ELEV 155



HIRL Rwy 12-30 **L** 303° 5.4 NM
REIL Rwy 12 from FAF

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



CATEGORY	A	B	C	D
S-ILS 30	355-½ 200 (200-½)			
S-LOC 30	480-½ 325 (400-½)			480-¾ 325 (400-¾)
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)

LOC/DME I-MCE

109.3

Chan 30

APP CRS

123°

Rwy Idg

5914

TDZE

155

Apt Elev

155

When local altimeter setting not received, use Castle altimeter setting and increase all MDAs 20 feet.

Circling NA NE of Rwy 12-30.

MISSED APPROACH: Climb to 2000 via HYP R-292 to HYP VOR/DME and hold.

ASOS 132.175	NORCAL APP CON 120.95 269.45	UNICOM 122.7 (CTAF) 
-----------------	---------------------------------	--

2000 to CAZAR

114° (17.6) and LOC (6.5)

303°

IAF

MODESTO

114.6 MOD 

Chan 93

BACK COURSE

RADAR or DME REQUIRED

10 NM

MSA HYP 25 NM

3000

5600

080°

260°

2200

3300

170°

350°

1305± 

325±

288± 

CAZAR

I-MCE 4.9

RADAR

206

335±

205

473

LOCALIZER

I-MCE 109.3

Chan 30

EL NIDO

114.2 HYP 

Chan 89

290°

110°

R-292

R-110

ELEV 155

123° 5 NM from FAF

TDZE 155

5914 x 150

228

30

35

CAZAR

I-MCE 4.9

RADAR

VGSI and descent angles not coincident.

Disregard glide slope indications.

2000

HYP

114.2

HYP R-292

Procedure Turn NA

2000

123°

3.37°

TCH 47

4.4 NM

0.6

I-MCE 0.5

FAF to MAP 4.4 NM						
Knots	60	90	120	150	180	
Min:Sec	4:24	2:56	2:12	1:46	1:28	
CATEGORY	A	B	C	D		
S-12	520-1 365 (400-1)			520-1½ 365 (400-1½)		
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)		

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS

CH 93709

W30A

APP CRS

304°

Rwy Idg

5914

TDZE

155

Apt Elev

155

✈

Circling NA NE of Rwy 12-30. Baro-VNAV NA when using Merced/Castle altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP NA when using Castle altimeter setting. For inoperative MALS, increase LNAV visibilities Cat A, B, C to 1 mile and Cat D to 1½ mile. When local altimeter setting not received, use Castle altimeter setting and increase all DA/MDA 20 feet. Inoperative table does not apply.

MALS

A5

|||||

MISSED APPROACH:

Climb to 3000 direct ZEXIK and via track 247° to VOLTA and hold.

ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.4	122.7 (CTAF) 1

MISSED APCH FIX

CATEGORY	A	B	C	D
LPV DA	449-¾ 294 (300-¾)			
LNAV/VNAV DA	514-¾ 359 (400-¾)			
LNAV MDA	500-¾ 345 (400-¾)			500-1 345 (400-1)
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

VOR RWY 30

MERCED RGNL/MACREADY FIELD (MCE)

VOR/DME HYP	APP CRS	Rwy Idg	5914
114.2	289°	TDZE	155
Chan 89		Apt Elev	155

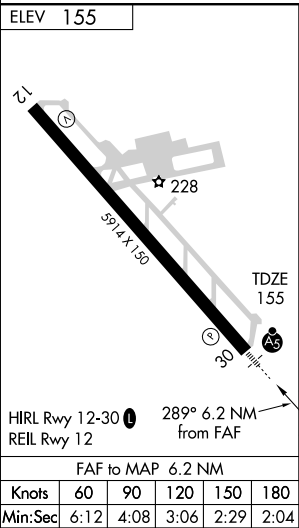
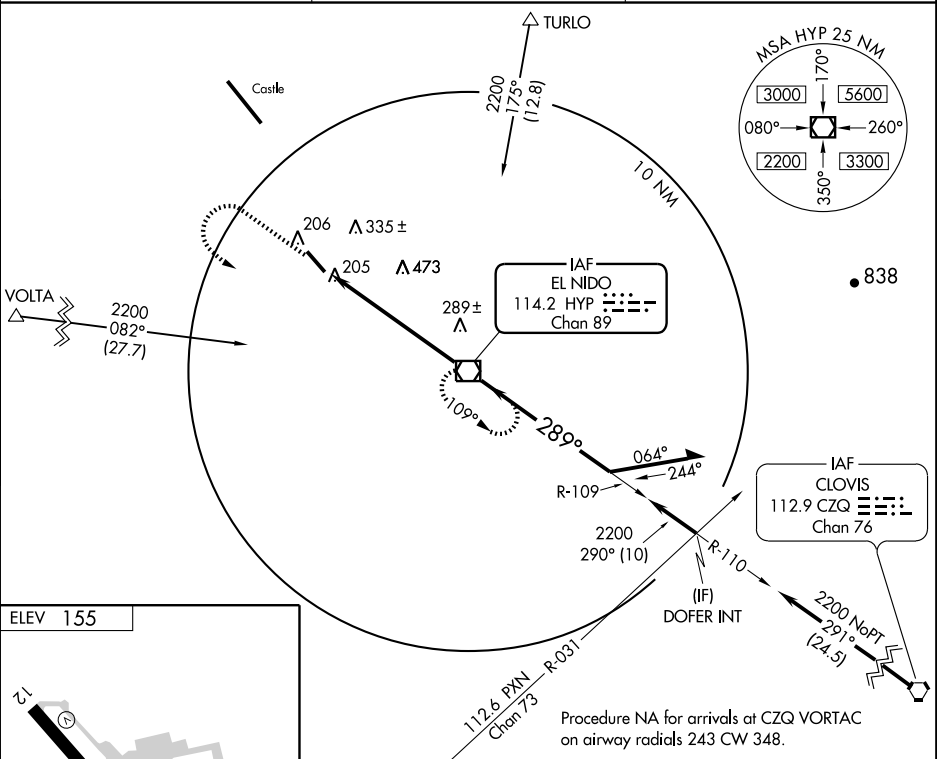
For inoperative MALSR, increase S-30 Cat A and B visibility to 1 mile, and Cat D to 1¼ mile. Circling NA NE of Rwy 12-30. Visibility reduction by helicopters NA. VDP NA when using Castle altimeter setting. When local altimeter setting not received, use Castle altimeter setting and increase all MDAs 20 feet.

MALSR



MISSED APPROACH: Climb to 1000 then climbing left turn to 2200 direct HYP VOR/DME and hold.

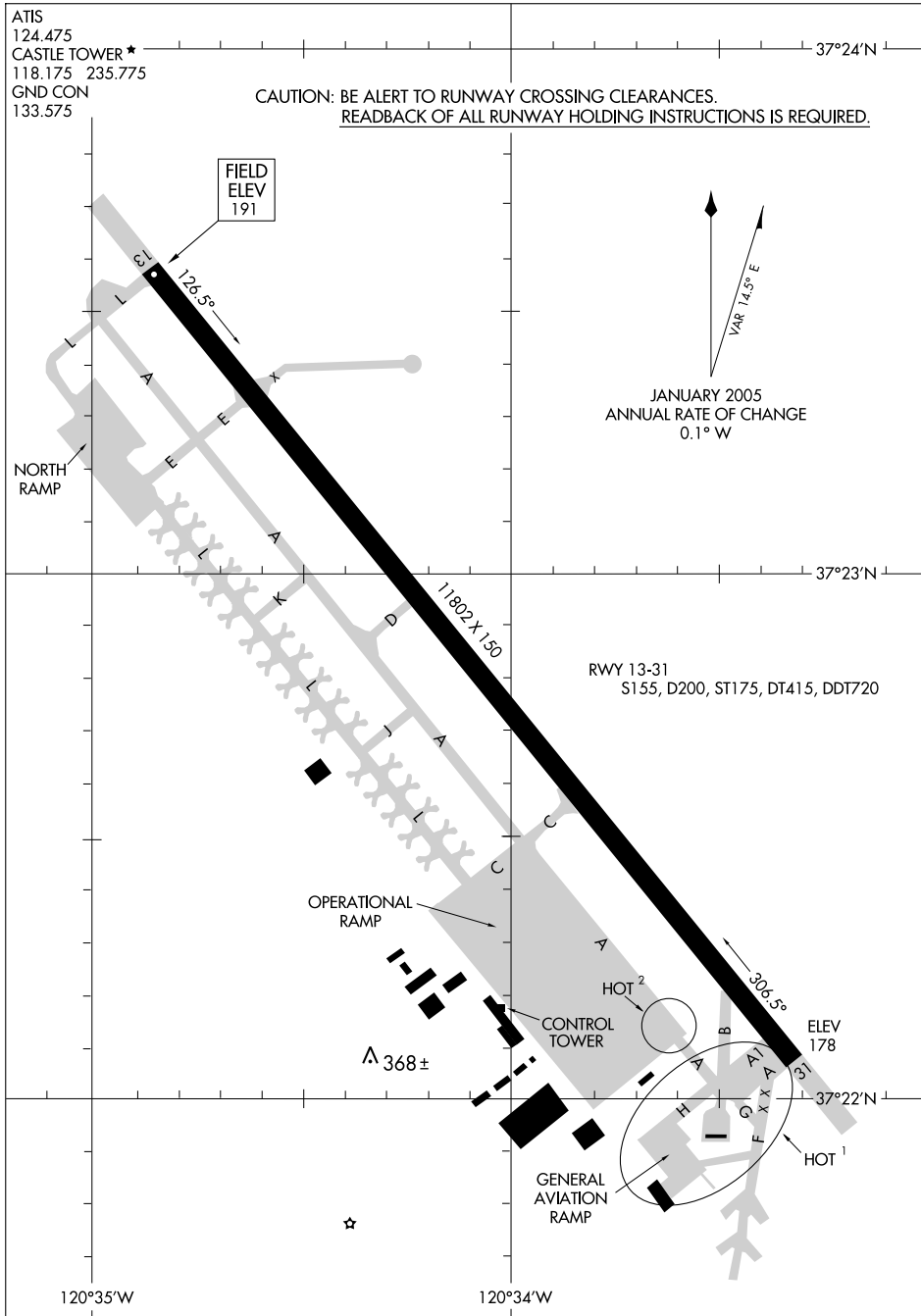
ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.45	122.7 (CTAF) 1



1000	2200	HYP	114.2	VOR/DME	Remain within 10 NM
		HYP	5.1		
		HYP	6.2		
		1.1 NM	5.1 NM		
CATEGORY	A	B	C	D	
S-30	560-¾	405 (500-¾)		560-1	405 (500-1)
CIRCLING	560-1	620-1	620-1½	720-2	565 (600-2)
	405 (500-1)	465 (500-1)	465 (500-1½)		

AIRPORT DIAGRAM

AL-568 (FAA)

MERCED/CASTLE (MER)
MERCED, CALIFORNIA

LOC I-MER	APP CRS	Rwy Idg	11802
109.5	306°	TDZE	181
		Apt Elev	191

ILS or LOC/DME RWY 31

MERCED/ CASTLE (MER)

⚠

Circling NA SW of Rwy 13-31.

⚠

When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase DA/MDA 20 feet.

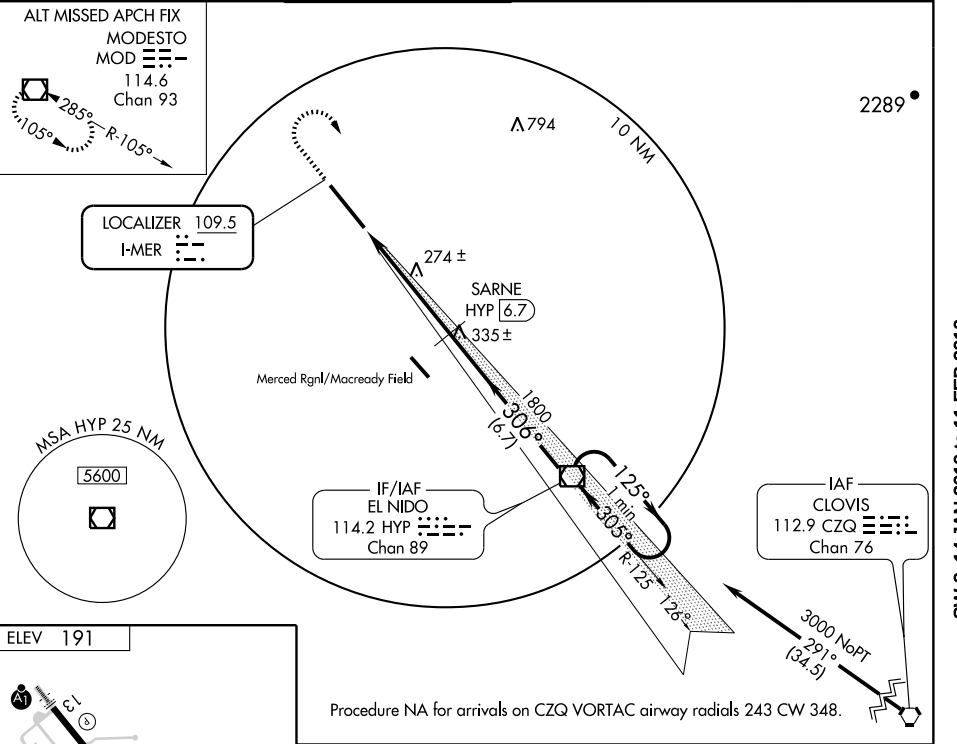
DME from HYP VOR/DME. Simultaneous reception of I-MER and HYP DME required.

ALSIF-1

MISSED APPROACH:

Climb to 800, then climbing right turn to 3000 direct HYP VOR/DME and hold.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.00



	800	3000	HYP 114.2	
			SARNE HYP 6.7	
			1800	
			HYP 11.6	
			4.9 NM	6.7 NM
				VOR/DME
				One Minute Holding Pattern
				125° → 3000
				← 305°
				GS 3.00° TCH 55
CATEGORY	A	B	C	D
S-ILS 31	381-½ 200 (200-½)			
S-LOC 31	540-½ 359 (400-½)			540-¾ 359 (400-¾)
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1½ 469 (500-1½)	760-2 569 (600-2)

WAAS CH 50211 W13A	APP CRS 126°	Rwy Idg TDZE Apt Elev 11802 191
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RNAV (GPS) RWY 13

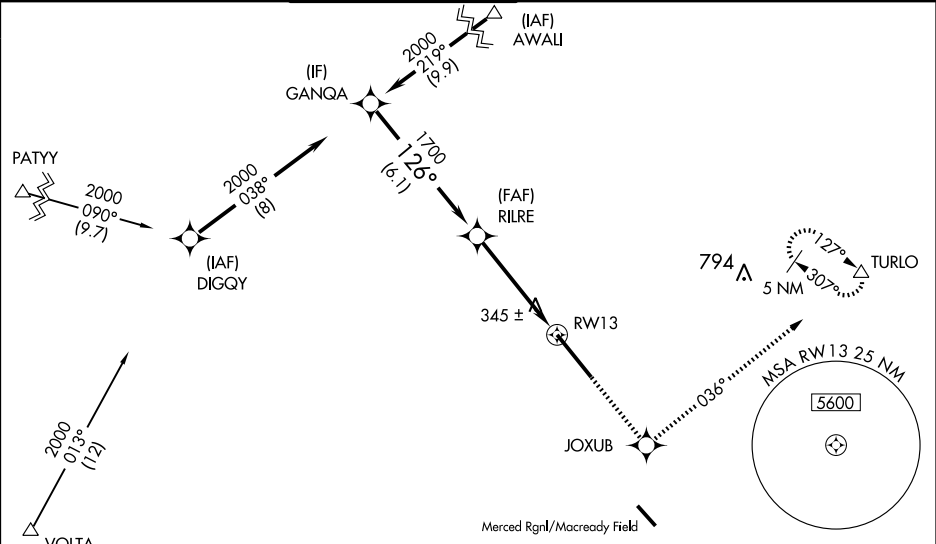
MERCED/ CASTLE (MER)

⚠ Circling NA SW of Rwy 13-31. Baro-VNAV NA when using Merced Rgnl/Macready Field altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. VDP NA when using Merced Rgnl/Macready Field altimeter setting. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all DA/MDA 20 feet and LNAV/VNAV visibility ¼ mile. For inoperative ALSF-1 increase visibility LPV all Cats and LNAV Cat D to 1¼, and LNAV Cats A and B to 1. For inoperative ALSF-1 when using Merced Rgnl/Macready Field altimeter setting, increase visibility LPV all Cats to 1¼, and LNAV Cats A and B to 1.

ALSF-1

MISSED APPROACH:
Climb to 4000 direct JOXUB and via track 036° to TURLO and hold, continue climb-in-hold to 4000.

ATIS 124.475	NORCAL APP CON 120.95 269.45	CASTLE TOWER ★ 118.175 (CTAF) 235.775	GND CON 133.575	UNICOM 122.95	123.00
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ELEV 191

VGSI and RNAV glidepath not coincident

4000	JOXUB	TRK 036°	TURLO
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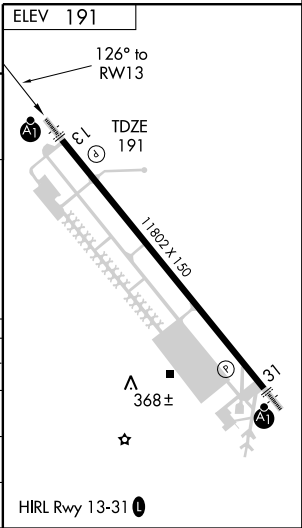
*LNAV only

Procedure
Turn NA
GS 3.00°
TCH 55

GANQA 2000 126°
RILRE 1700

6.1 NM 3.4 NM 1.1 NM

CATEGORY	A	B	C	D
LPV DA	555-¾ 364 (400-¾)			
LNAV/VNAV DA	655-1 464 (500-1)			
LNAV MDA	600-¾ 409 (500-¾)			600-1 409 (500-1)
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1½ 469 (500-1½)	760-2 569 (600-2)



WAAS CH 87110 W31A	APP CRS 306°	Rwy Idg TDZE Apt Elev	11802 181 191
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RNAV (GPS) RWY 31

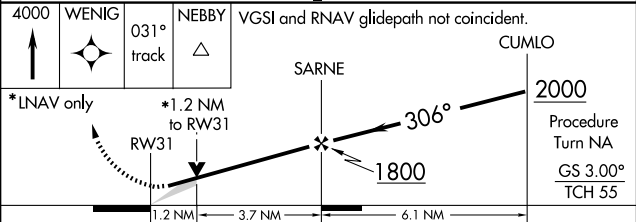
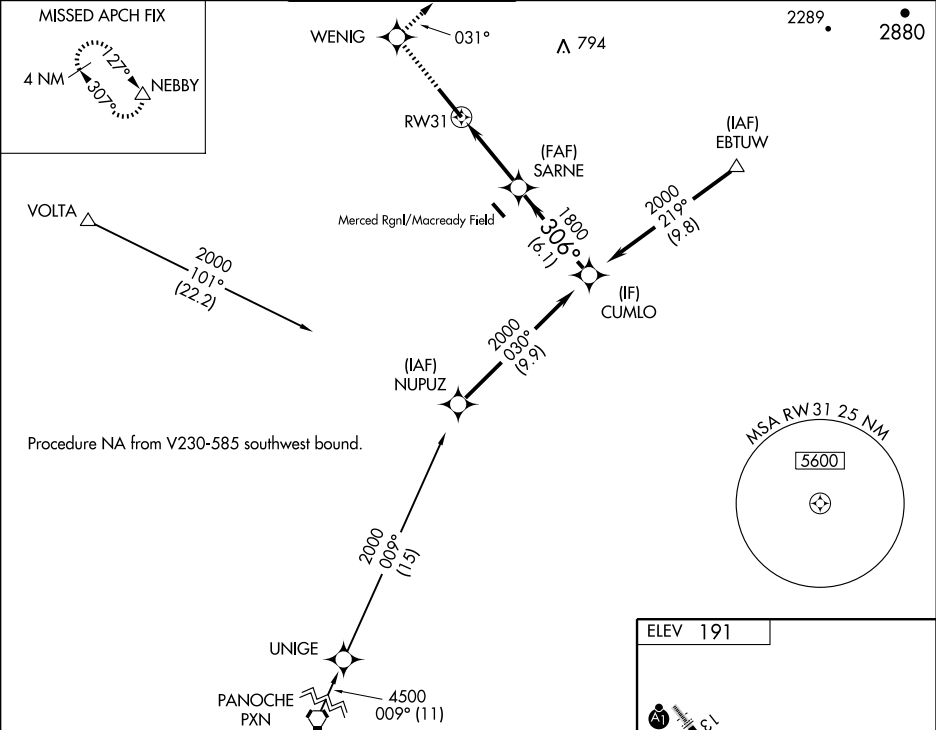
MERCED/ CASTLE (MER)

⚠ Circling NA SW of Rwy 13-31. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Merced Rgnl/Macready Field altimeter setting. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all DA/MDA 20 feet.

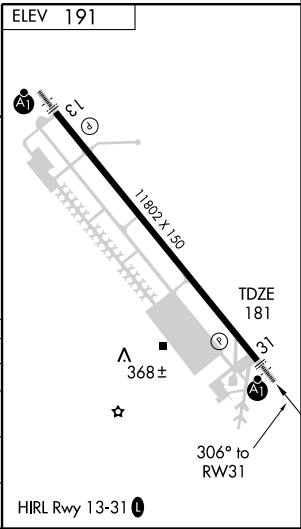
ALSF-1

MISSED APPROACH: Climb to 4000 direct WENIG and via 031° track to NEBBY and hold, continue climb-in-hold to 4000.

ATIS 124.475	NORCAL APP CON 120.95 269.45	CASTLE TOWER ★ 118.175 (CTAF) 235.775	GND CON 133.575	UNICOM 122.95	123.00
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CATEGORY	A	B	C	D
LPV DA		381-1/2	200 (200-1/2)	
LNAV/VNAV DA		540-3/4	359 (400-3/4)	
LNAV MDA	640-1/2 459 (500-1/2)		640-3/4 459 (500-3/4)	640-1 459 (500-1)
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1 1/2 469 (500-1 1/2)	760-2 569 (600-2)



VOR/DME HYP	APP CRS	Rwy Idg	11802
114.2	305°	TDZE	181
Chan 89		Apt Elev	191

VOR/DME RWY 31

MERCED / CASTLE (MER)

⚠

For inoperative ALSF-1, increase Cat D visibility to 1 ¼ mile. Circling not authorized SW of Rwy 13 and 31. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all MDA 20 feet. VDP NA when using Merced Rgnl/Macready Field altimeter setting.

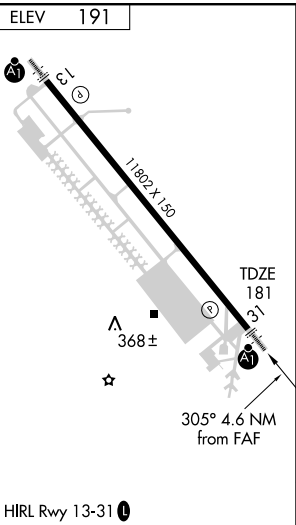
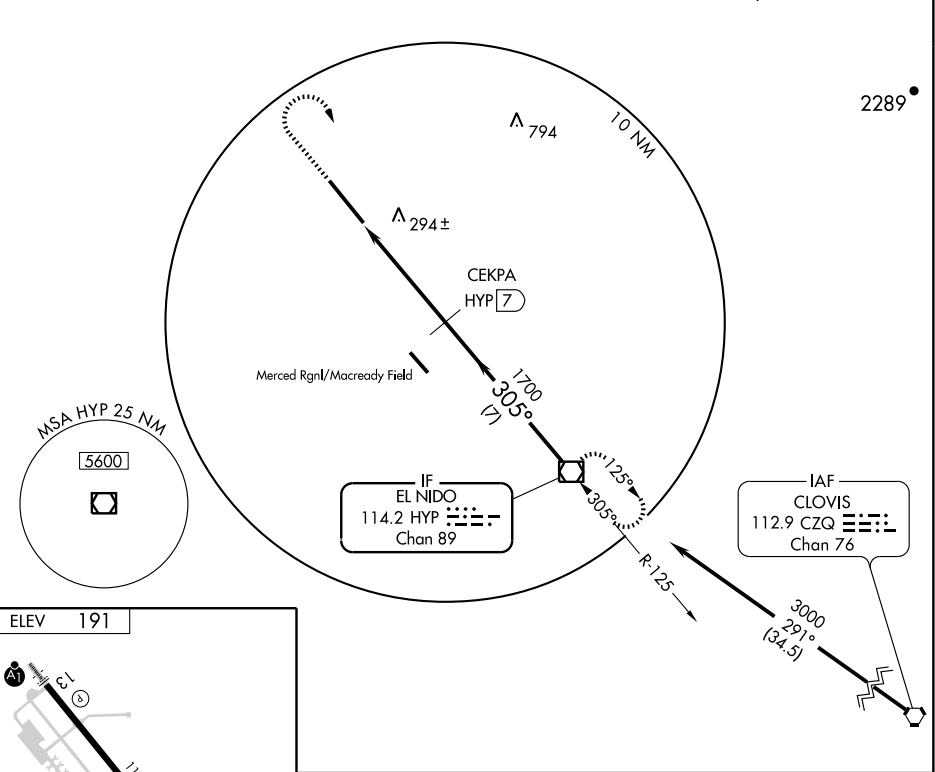
ALSF-1

ⓐ1

MISSED APPROACH: Climb to 800, then climbing right turn to 3000 direct HYP VOR/DME and hold.

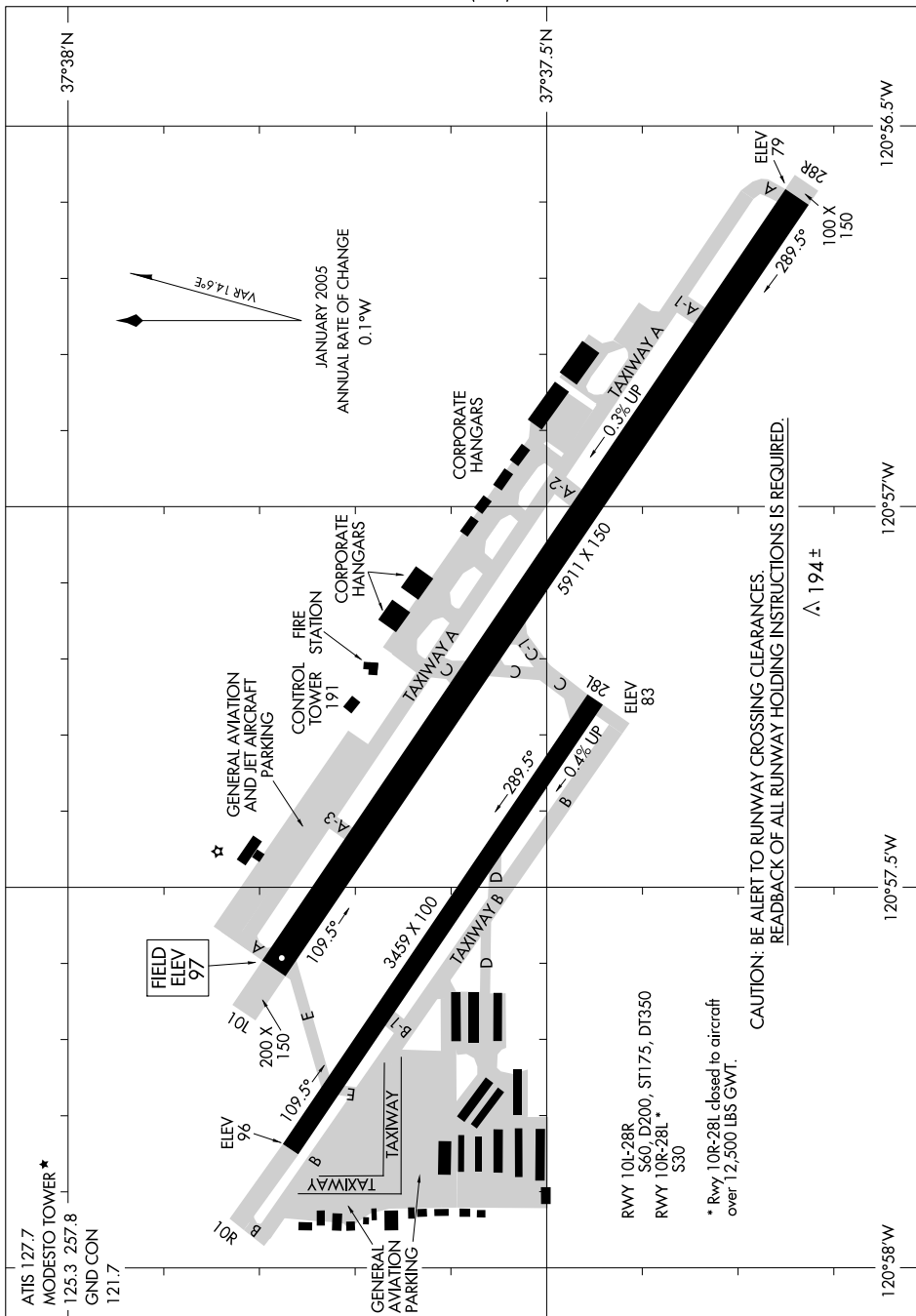
ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	123.00 0
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	

Procedure NA for arrivals on CZQ VORTAC airway radials 243 CW 348.



800 3000 HYP 114.2				VOR/DME 3000 Procedure Turn NA			
HYP 10.6 HYP 11.6 CEKPA HYP 7 1700 ≤ 2.98° TCH 71 1 NM 3.6 NM 7 NM							
CATEGORY	A	B	C	D			
S-31	560-½ 379 (400-½)			560-1 379 (400-1)			
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1½ 469 (500-1½)	760-2 569 (600-2)			

SW-2, 14 JAN 2010 to 11 FEB 2010



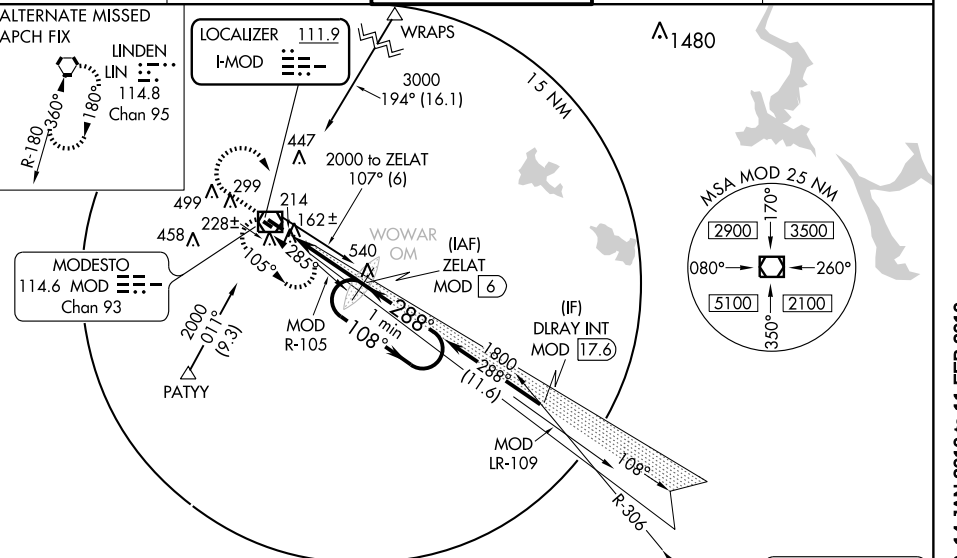
LOC I-MOD	APP CRS	Rwy Idg	5911
111.9	288°	TDZE	88
		Apt Elev	97

Autopilot coupled approach NA below 660. For inoperative MALS/R, increase S-LOC Cat D visibility to 1 mile. When local altimeter setting not received, use Atwater altimeter setting and increase DA 68 feet and all MDAs 80 feet. Increase S-LOC Cat C visibility to ¾. For inoperative MALS/R, when using Atwater altimeter setting; increase S-ILS 28R all visibilities ½ mile. DME from MOD VOR/DME. Simultaneous reception of I-MOD and MOD DME required.

MALS/R

MISSED APPROACH: Climb to 1500 then climbing right turn to 2000 direct MOD VOR/DME and hold.

ATIS	NORCAL APP CON	MODESTO TOWER *	GND CON	UNICOM
127.7	120.95 269.45	125.3 (CTAF) 257.8	121.7	122.95



DME or RADAR REQUIRED

ELEV 97

IAF EL NIDO 114.2 HYP Chan 89

PANOCHÉ 112.6 PXN Chan 73

CLOVIS 112.9 CZQ Chan 76

REIL Rwy 10L ①
MIRL Rwy 10R-28L
HIRL Rwy 10L-28R ①

1500	2000	MOD	ZELAT MOD ⑥		One Minute Holding Pattern
↑	↻	□	114.6		
MOD 0.8			1800	108° →	1800
			1800	← 288°	1800
					GS 3.00° TCH 53
5.2 NM					
CATEGORY	A	B	C	D	
S-ILS 28R	288-½ 200 (200-½)				
S-LOC 28R	420-½ 332 (400-½)				420-¾ 332 (400-¾)
CIRCLING	540-1 443 (500-1)	560-1 463 (500-1)	560-1½ 463 (500-1½)	660-2 563 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 70609 W28A	APP CRS 288°	Rwy ldg TDZE Apt Elev	5911 88 97
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RNAV (GPS) RWY 28R

MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)

⚠ For inoperative MALSR, increase LPV visibility to 1 mile all Cats and LNAV Cat D to 1½ mile.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Atwater/Castle altimeter setting and increase all DA/MDA 80 feet; increase LPV, LNAV/VNAV visibilities ¼ mile all Cats and LNAV Cat C visibility ½ mile.

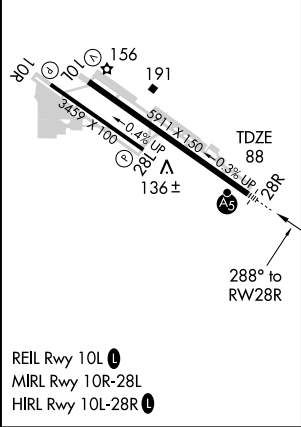
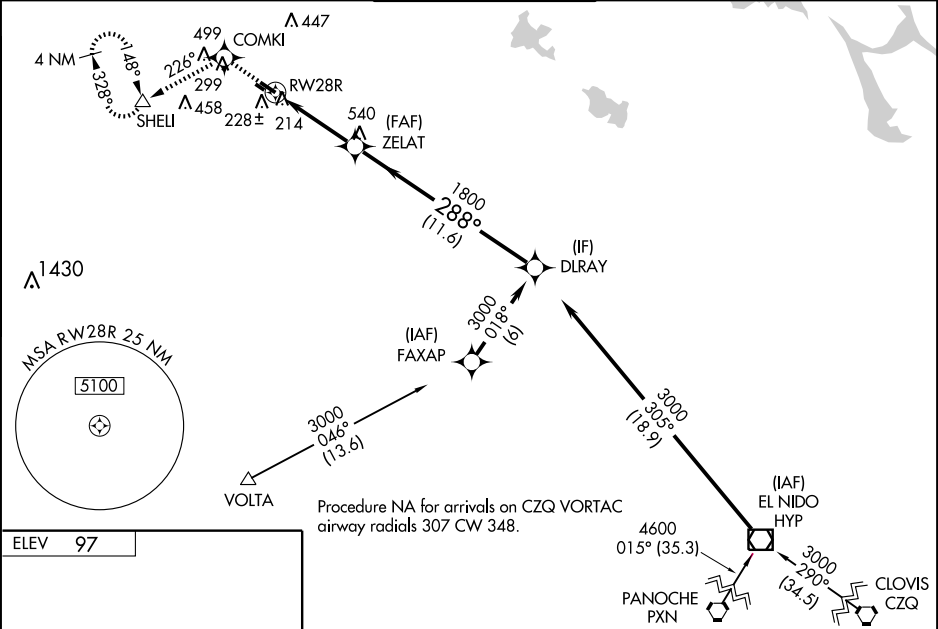
Baro-VNAV and VDP NA when using Atwater/Castle altimeter setting.

For inoperative MALSR, when using Atwater/Castle altimeter setting, increase LPV visibility to 1½ mile all Cats.

MALSR

MISSED APPROACH: Climb to 3000 direct COMKI and left turn via 226° track to SHELI and hold, continue climb-in-hold to 3000.

ATIS 127.7	NORCAL APP CON 120.95 269.45	MODESTO TOWER ★ 125.3 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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	3000	COMKI	226°	SHELI		DRLAY	3000
				ZELAT			
	*LNAV only	*1.1 NM to RWY 28R					Procedure Turn NA
							GS 3.00° TCH 53
		1.1 NM	4.1 NM	11.6 NM			
CATEGORY	A	B	C	D			
LPV DA	385-½	297 (300-½)					
LNAV/VNAV DA	495-1	407 (400-1)					
LNAV MDA	480-½	392 (400-½)				480-1	392 (400-1)
CIRCLING	540-1 443 (500-1)	560-1 463 (500-1)	560-1½ 463 (500-1½)	660-2 563 (600-2)			

VOR/DME MOD 114.6 Chan 93	APP CRS 287°	Rwy Idg 5911 TDZE 88 Apt Elev 97
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VOR/DME RWY 28R

MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)

T For inoperative MALSR increase S-28R Cat. D visibility to 1 ¼.



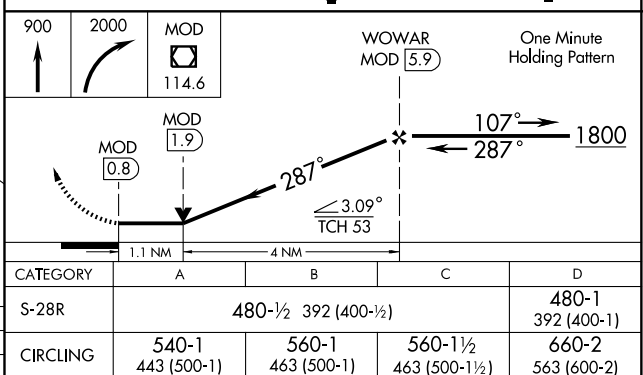
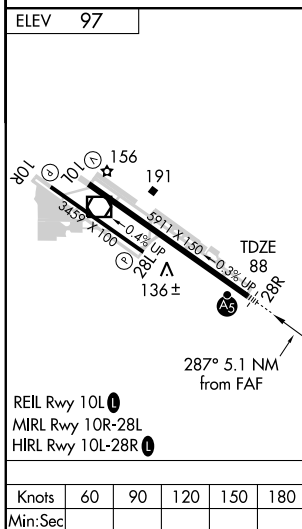
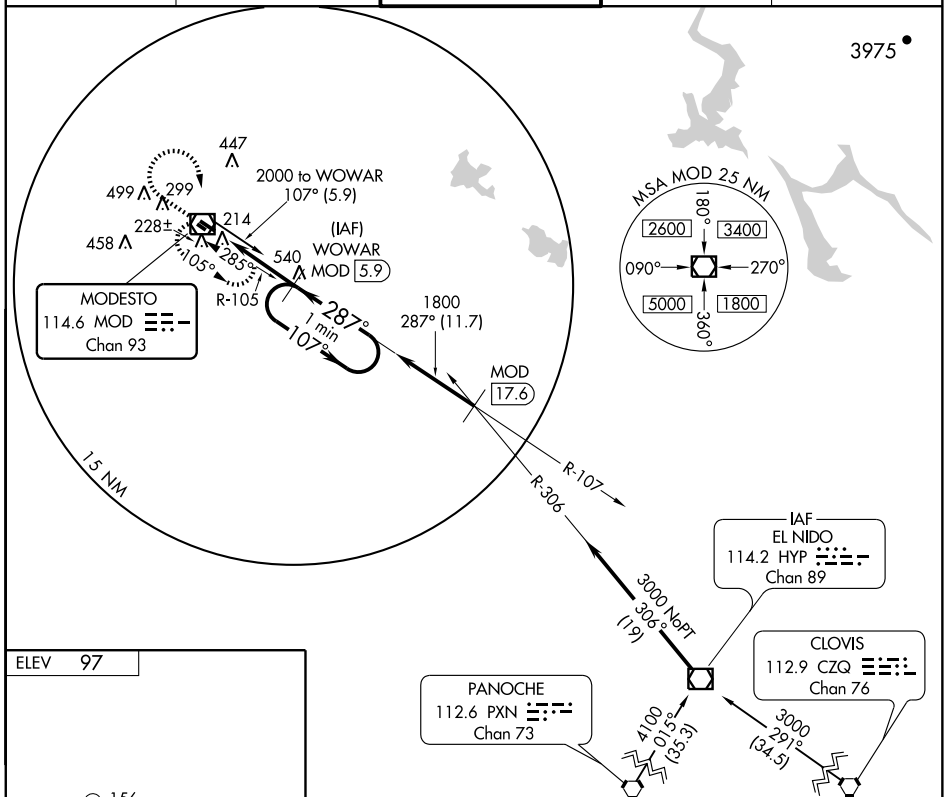
MISSED APPROACH: Climb to 900 then climbing right turn to 2000 direct MOD VOR/DME and hold.

ATIS
127.7

NORCAL APP CON
120.95 269.45

MODESTO TOWER ★
125.3 (CTAF) **L** 257.8

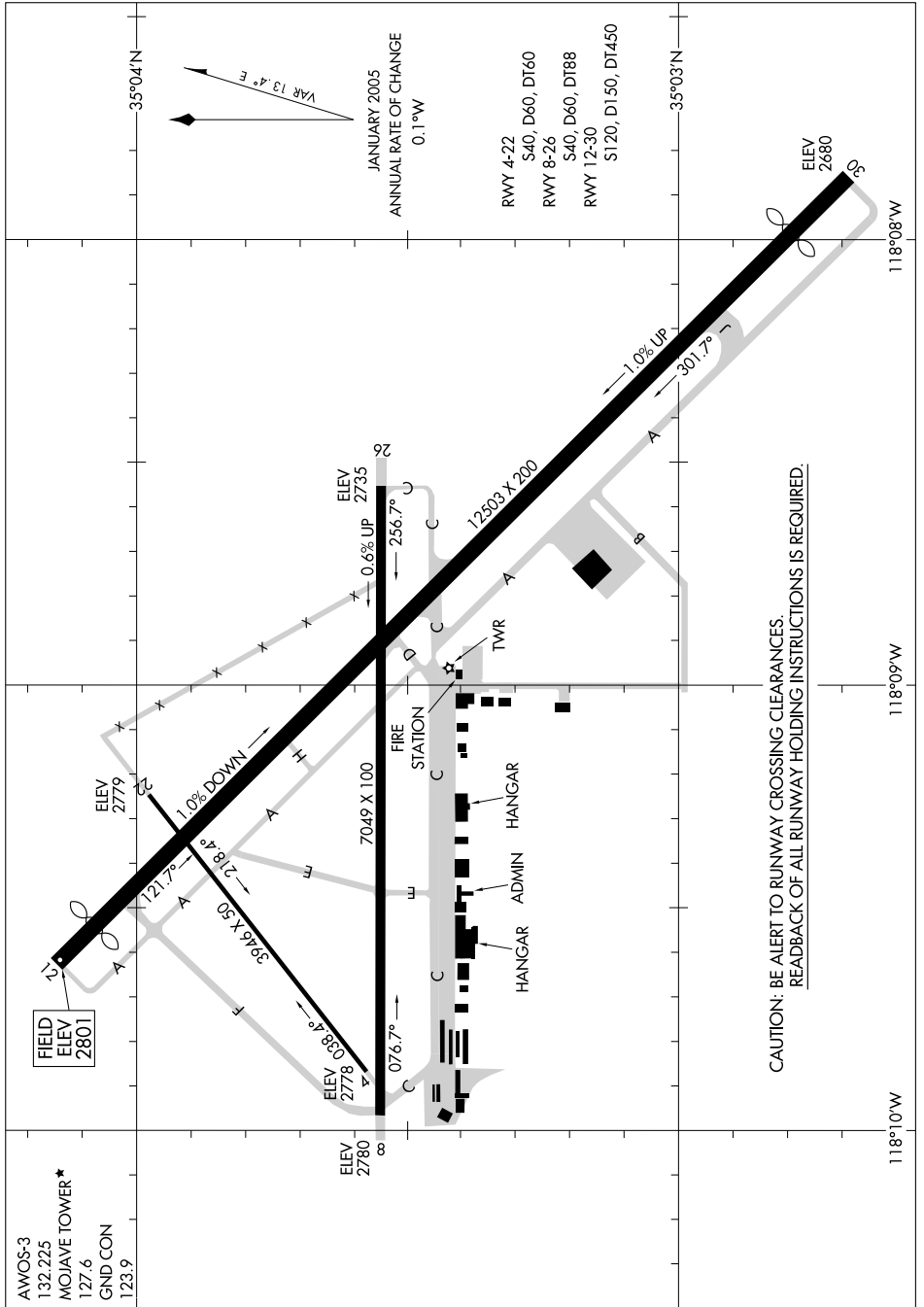
GND CON
121.7

UNICOM
122.95

AIRPORT DIAGRAM

AL-9353 (FAA)

MOJAVE (MHV)
MOJAVE, CALIFORNIA



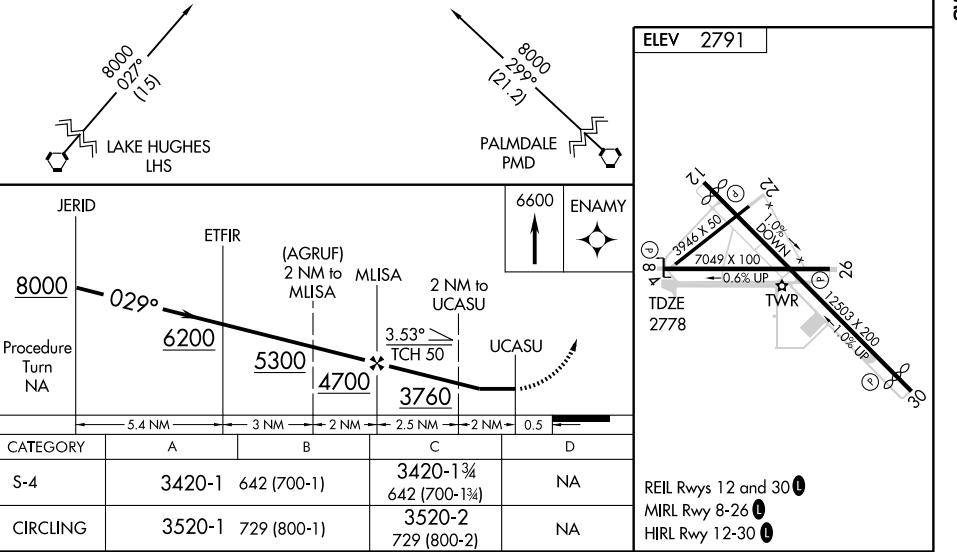
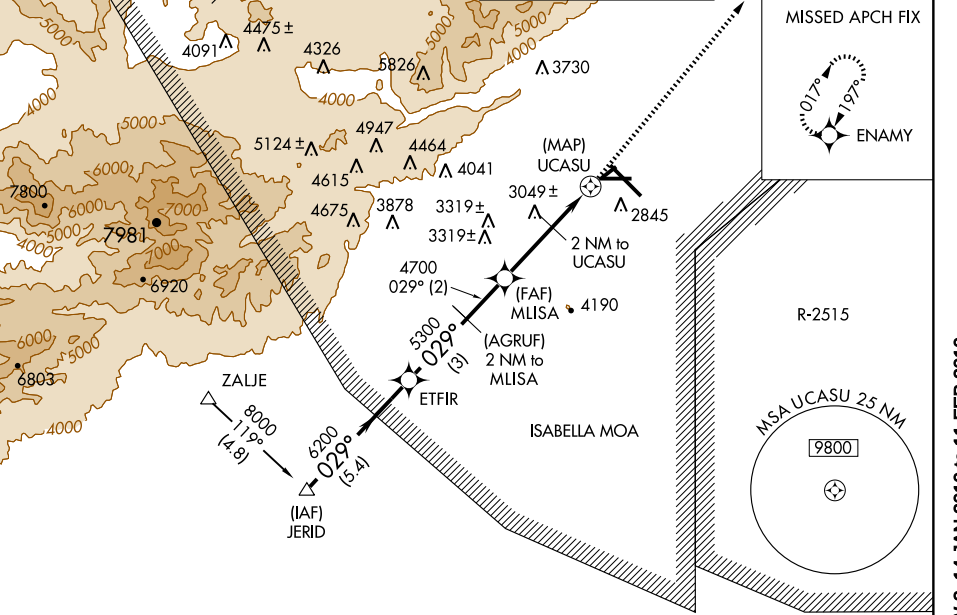
▼

▲NA

Use Edwards AFB altimeter setting.
Circling SE of runway 4-22 not authorized.
Procedure NA at night.

MISSED APPROACH: Climb to 6600
direct ENEMY WP and hold.

AWOS-3 132.225	JOSHUA APP CON 133.65 348.7	MOJAVE TOWER★ 127.6 (CTAF) 0	GND CON 123.9
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SW-3. 14 JAN 2010 to 11 FEB 2010

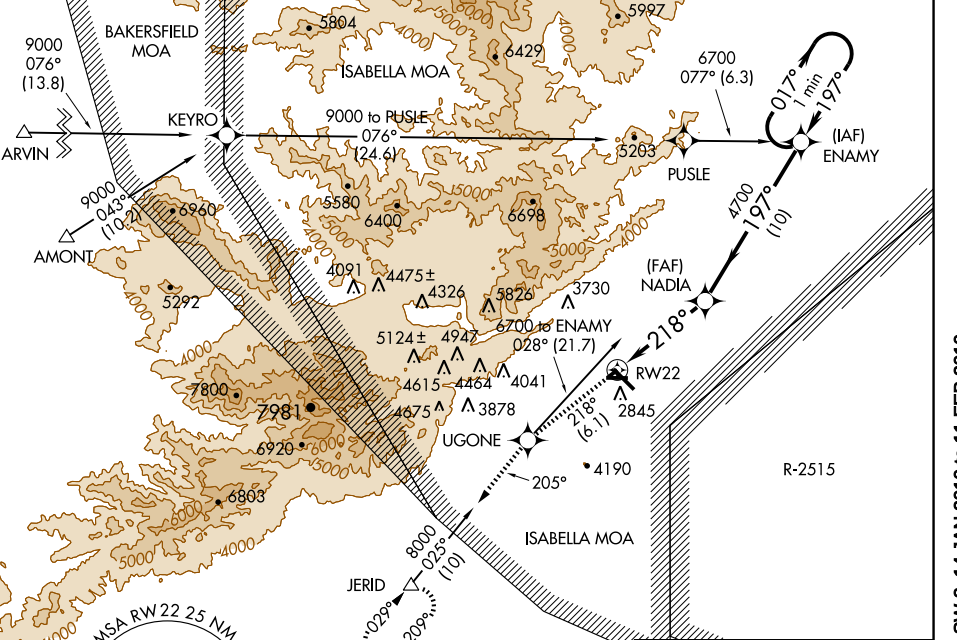
▼

▲NA

Use Edwards AFB altimeter setting.
Circling SE of runway 4-22 not authorized.
Procedure NA at night.

MISSED APPROACH: Climb to 8600 via course 218° to
UGONE WP then via course 205° to JERID WP and hold.

AWOS-3 132.225	JOSHUA APP CON 133.65 348.7	MOJAVE TOWER ★ 127.6 (CTAF) ①	GND CON 123.9
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ELEV 2791

8600
↑
218°

UGONE
★
205°

JERID
△

One Minute Holding Pattern

NADIA

RW22
↖ 218° ↗
TCH 50
≤ 2.94°

4700

197°

6700

017°

197°

6 NM

10 NM

CATEGORY	A	B	C	D
S-22	3820-1¼ 1041 (1100-1¼)	3820-1½ 1041 (1100-1½)	3820-3 1041 (1100-3)	NA
CIRCLING	3820-1¼ 1029 (1100-1¼)	3820-1½ 1029 (1100-1½)	3820-3 1029 (1100-3)	NA

REIL Rwy 12 and 30 ①

MIRL Rwy 8-26 ①

HIRL Rwy 12-30 ①

TDZE 2779

218° to RW22

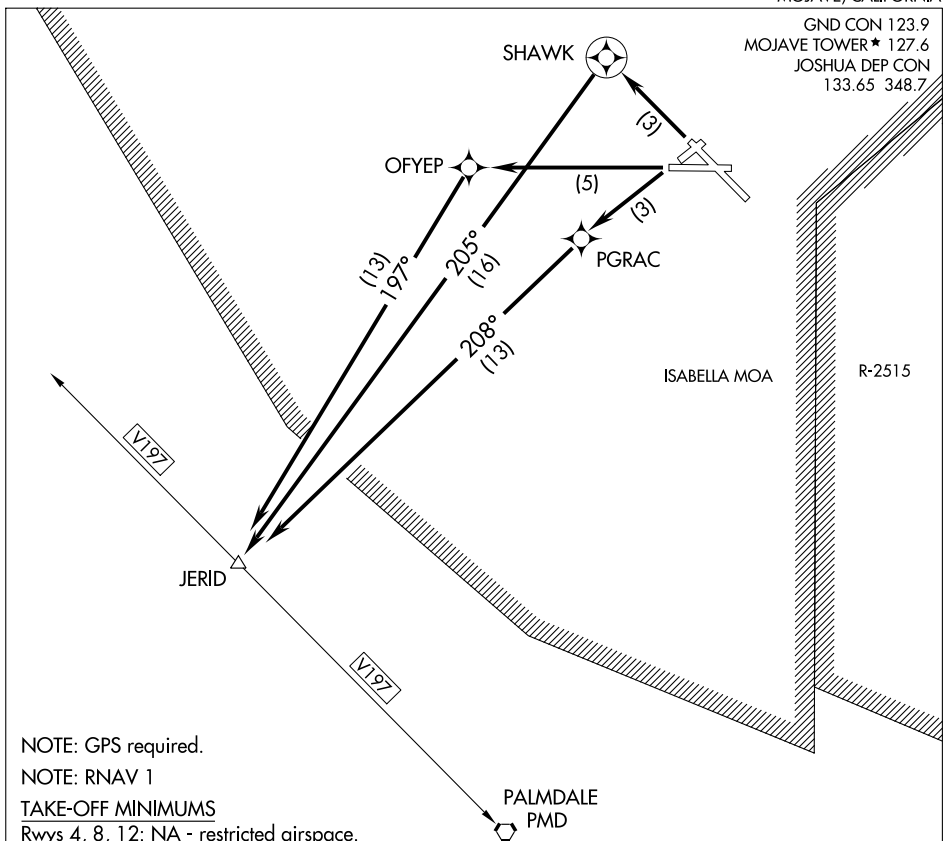
7049 X 100
-0.6% UP

3946 X 50
-1.0% DOWN

12303 X 200
-1.0% UP

TWR

JERID THREE DEPARTURE (RNAV)



NOTE: GPS required.

NOTE: RNAV 1

TAKE-OFF MINIMUMS

Rwys 4, 8, 12: NA - restricted airspace.

Rwys 22, 26: Standard.

Rwy 30: Standard with a minimum climb of 480' per NM to 5300.

NOTE: Aircraft departing Rwys 22, 26, 30 northwest bound on V197:

Standard with a minimum climb of 480' per NM to 7600.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Vehicle on road 3181' from DER, 22' right of centerline 17' AGL/2896' MSL.

Train 1441' from DER, 351' right of centerline, 23' AGL/2882' MSL.

Rwy 22: Tower 1519' from DER, 150' left of centerline, 80' AGL/2849' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 22: Climb direct PGRAC, then via 208° track to JERID, thence....TAKE-OFF RUNWAY 26: Climb direct OFYEP, then via 197° track to JERID, thence....TAKE-OFF RUNWAY 30: Climb direct SHAWK, then climbing left turn via 205° track to JERID, thence....

....maintain 10000, expect filed altitude 10 minutes after departure.

NDB MOG	APP CRS	Rwy Idg	N/A
<u>404</u>	352°	TDZE	N/A
		Apt Elev	2648

NDB or GPS-A

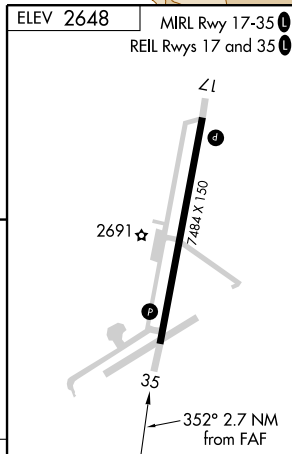
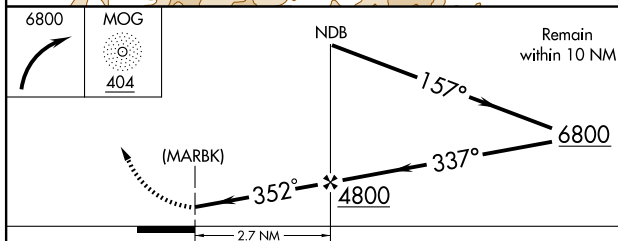
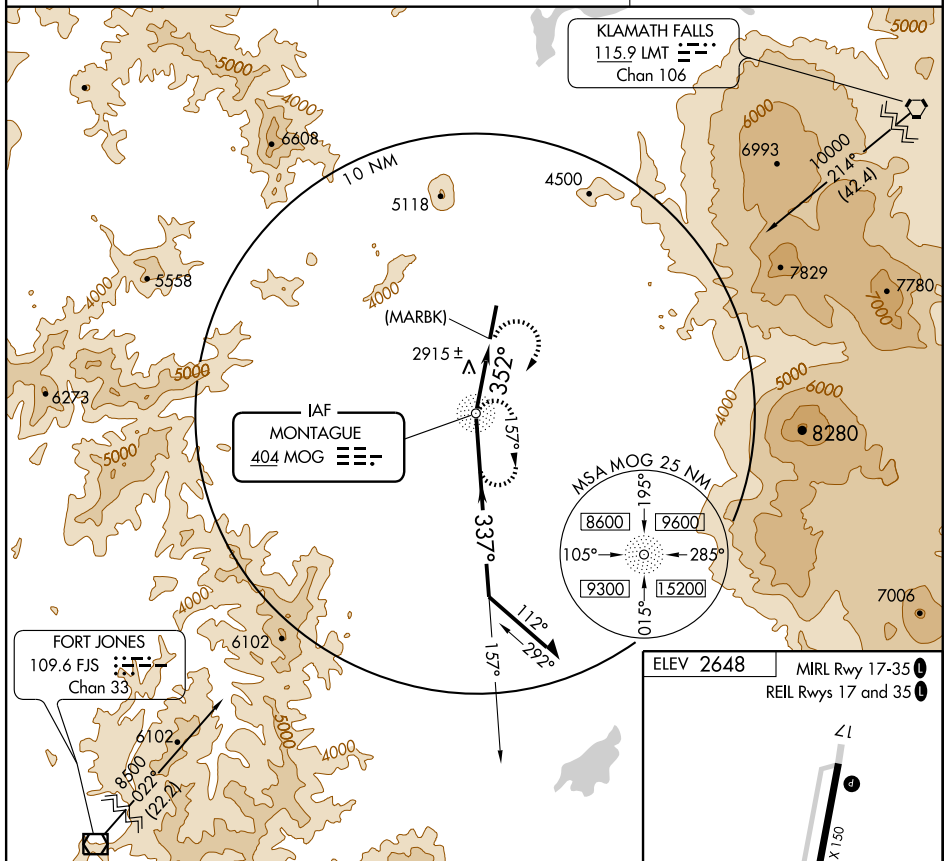
MONTAGUE/ SISKIYOU COUNTY (SIY)

T	Use Siskiyou County altimeter setting; when not available,
A NA	use Montague-Yreka Rohrer Field altimeter setting; when neither received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 6800 direct MOG NDB and hold.

ASOS
121,125

SEATTLE CENTER
124.85 306.3

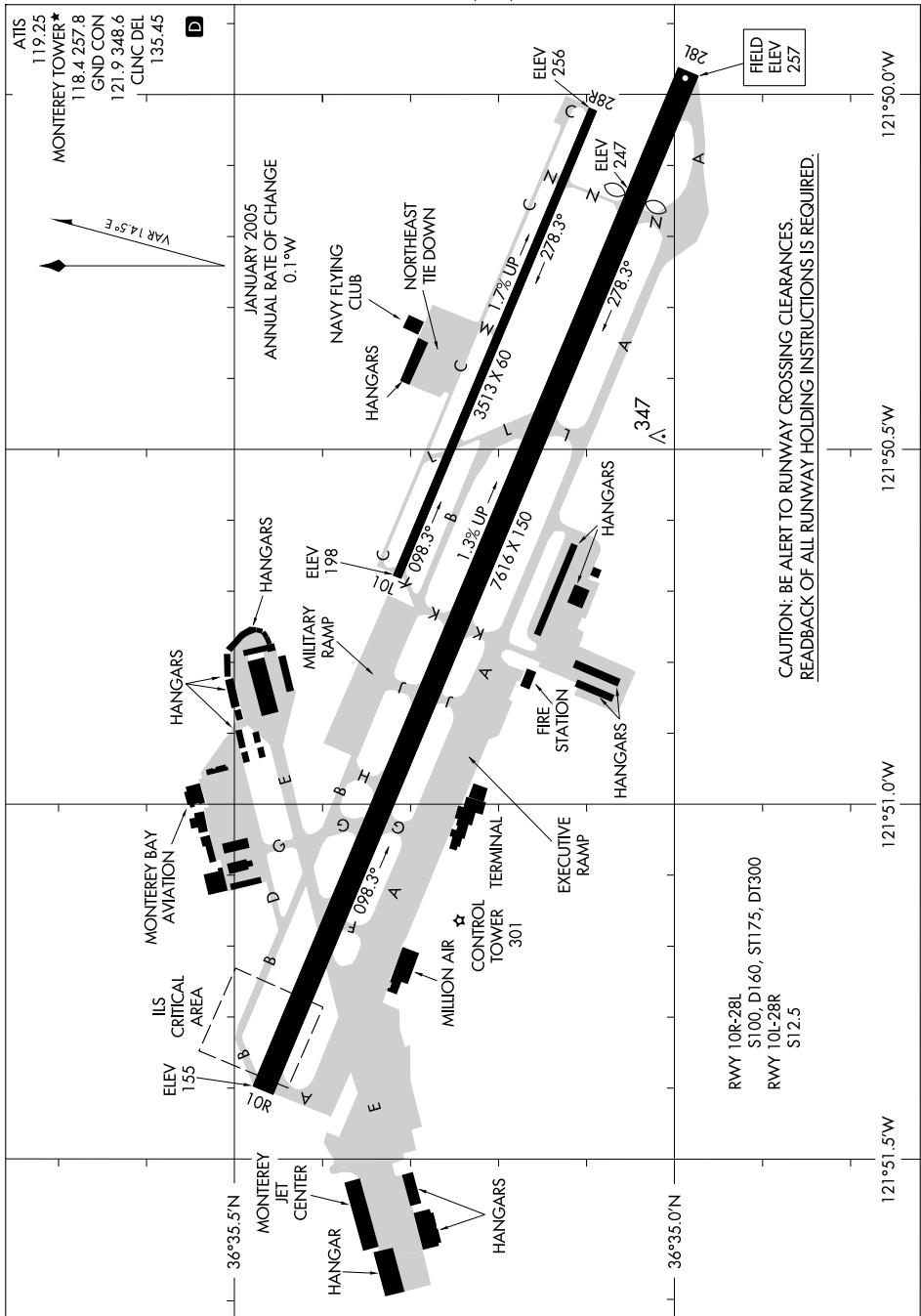
UNICOM
123.0 (CTAF) 

CATEGORY	A	B	C	D	FAF to MAP 2.7 NM					
CIRCLING	3760-1¼ 1112 (1200-1¼)	3760-1½ 1112 (1200-1½)	3760-3	1112 (1200-3)	Knots	60	90	120	150	180
	Min:Sec	2:42			1:48	1:21	1:05	0:54		

AIRPORT DIAGRAM

AL-271 (FAA)

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA



SW-2 14 JAN 2010 to 11 FEB 2010

CARMEL VISUAL RWY 28L

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA

ATIS 119.25
NORCAL APP CON
133.0 251.15 (360°-150°)
127.15 307.125 (151°-359°)
MONTEREY TOWER ★
118.4 (CTAF) 257.8
GND CON
121.9 348.6
CLNC DEL
135.45
UNICOM
122.95

MONTEREY BAY

ROUTE 1

POINT PINOS



LIGHTHOUSE

LOM

MUNSO

385 MR

At or Above 3000

10R

10L

28R

28L

At or Above 3000
until abeam airport on
left downwind Runway 28L

CARMEL VALLEY ROAD

CARMEL
BAY

ROUTE 1

2249



PINYON PEAK

PALO

CORONA 3181



RADAR REQUIRED

Weather Minimums: 3500 feet
ceiling and 5 miles visibility.

Vertical Guidance Navaid
and Angle: VASI (V4L)-3.5°

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
------	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

CARMEL VISUAL APPROACH RWY 28L
PROCEDURE NOT AUTHORIZED AT NIGHT

APP CRS 264°	Rwy Idg TDZE Apt Elev	3513 253 254
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GPS RWY 28R
MONTEREY PENINSULA (MRY)

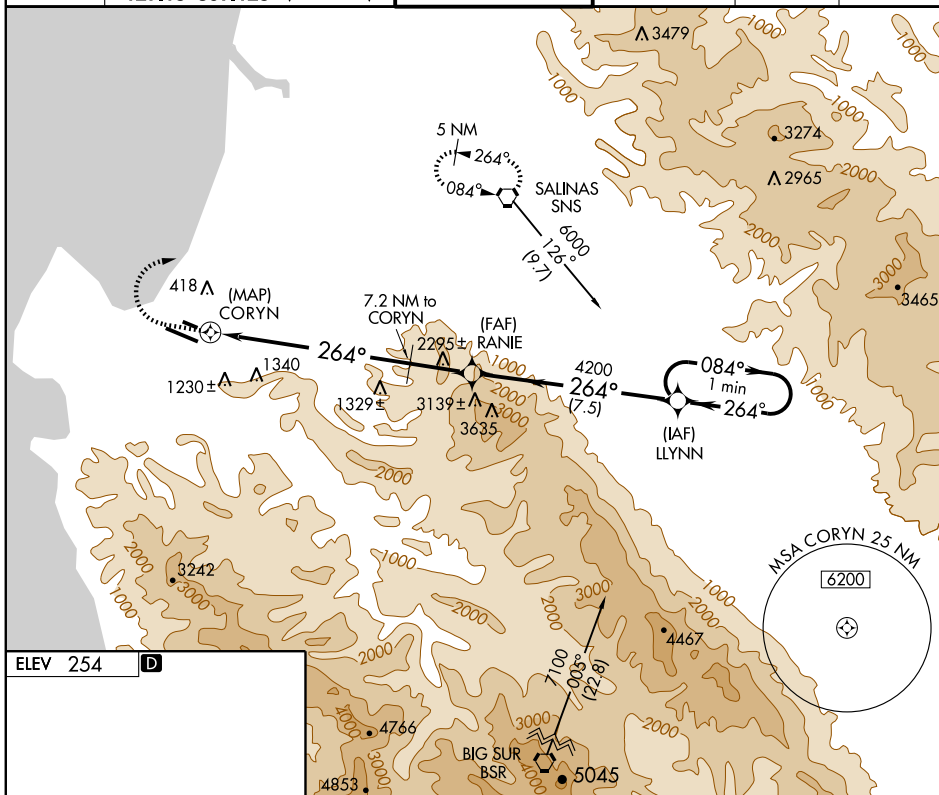
T	Circling not authorized south of Rwy 10R-28L.
A NA	When tower closed, straight-in minimums not authorized.

MISSED APPROACH: Climb to 1900, then climbing right turn to 6000 direct SNS VORTAC and hold.

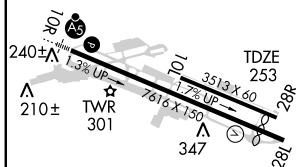
ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)
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MONTEREY TOWER ★
118.4 (CTAF) **L** 257.8

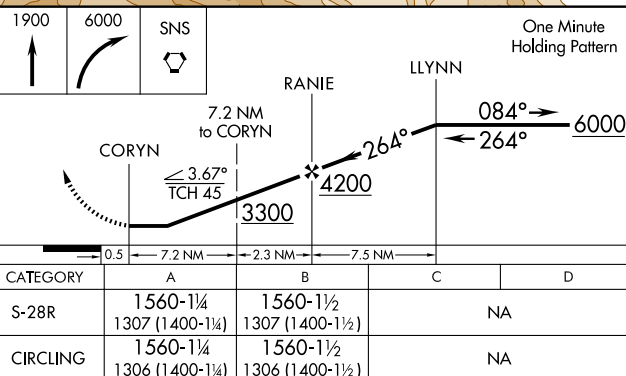
GND CON
121.9 348.6

CLNC DEL
135.45UNICOM
122.95

ELEV	254	D
------	-----	---



MIRL Rwy 10L-28R

HIRL Rwy 10R-28L **L**REIL Rwy 28L **L**

LOC/DME I-MRY	APP CRS	Rwy Idg	7616
110.7	098°	TDZE	193
Chan 44		Apt Elev	257

ILS or LOC RWY 10R
MONTEREY PENINSULA (MRY)

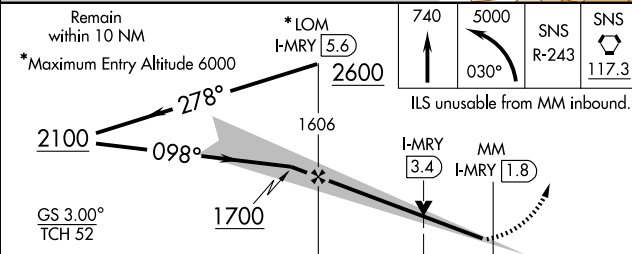
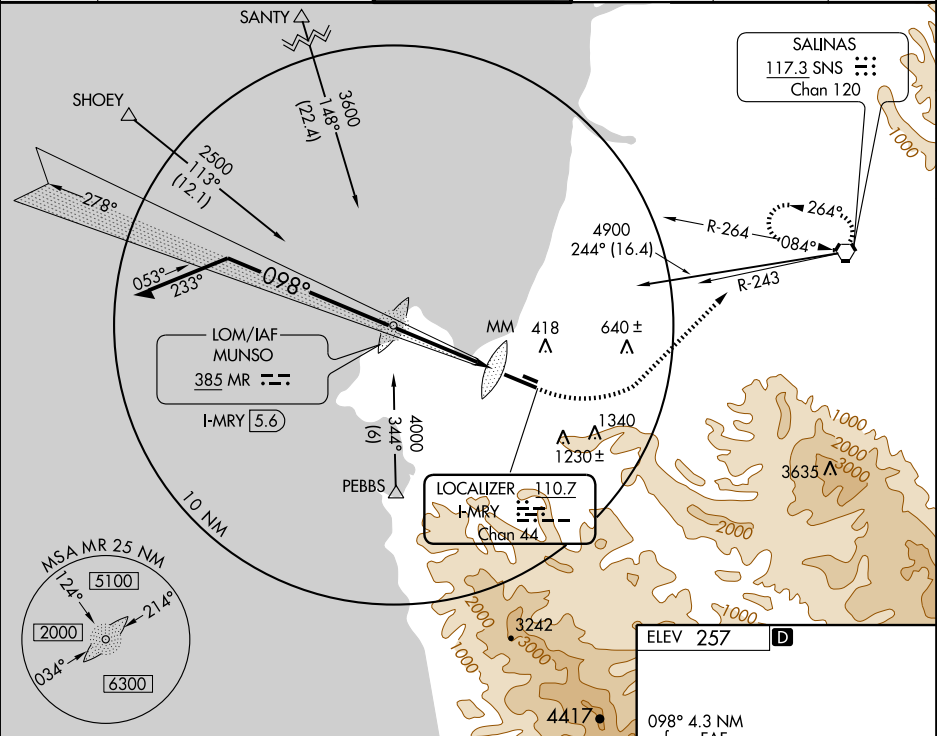
⚠ Circling not authorized south of Runway 10R-28L.
⚠ ILS unusable from MM inbound.
Auto pilot coupled approach not authorized.
For inoperative MALSR, increase S-ILS 10R to RVR 5000.

MALSR



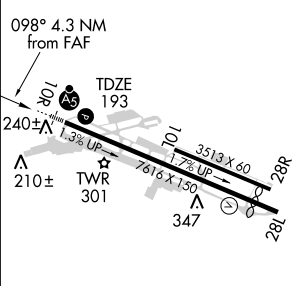
MISSED APPROACH: Climb to 740, then climbing left turn to 5000 via heading 030° and SNS R-243 to SNS VORTAC and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER ★ 118.4 (CTAF) 0 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 10R		480/24	287 (300-½)	
S-LOC 10R	900/24	707 (700-½)	900-1½ 707 (700-½)	900-1¾ 707 (700-1¾)
CIRCLING	900-1	643 (700-1)	900-2 643 (700-2)	1080-2¾ 823 (900-2¾)

ELEV 257 **D**



MIRL Rwy 10L-28R
HIRL Rwy 10R-28L **1**
REIL Rwy 28L **1**

FAF to MAP 3.8 NM

Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

LOBOS VISUAL RWY 10R

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA

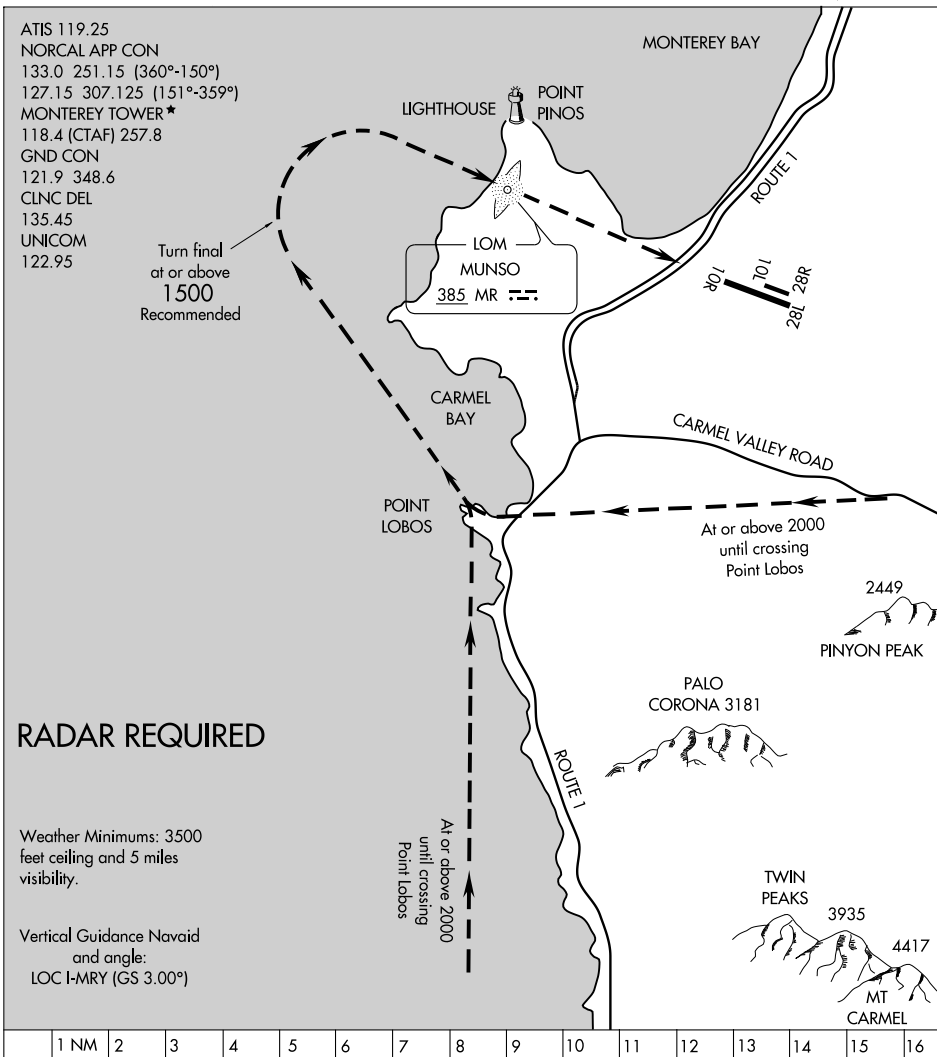
ATIS 119.25
NORCAL APP CON
133.0 251.15 (360°-150°)
127.15 307.125 (151°-359°)
MONTEREY TOWER ★
118.4 (CTAF) 257.8
GND CON
121.9 348.6
CLNC DEL
135.45
UNICOM
122.95

Turn final
at or above
1500
Recommended

RADAR REQUIRED

Weather Minimums: 3500
feet ceiling and 5 miles
visibility.

Vertical Guidance Navaid
and angle:
LOC I-MRY (GS 3.00°)



LOBOS VISUAL APPROACH RWY 10R
PROCEDURE NOT AUTHORIZED AT NIGHT

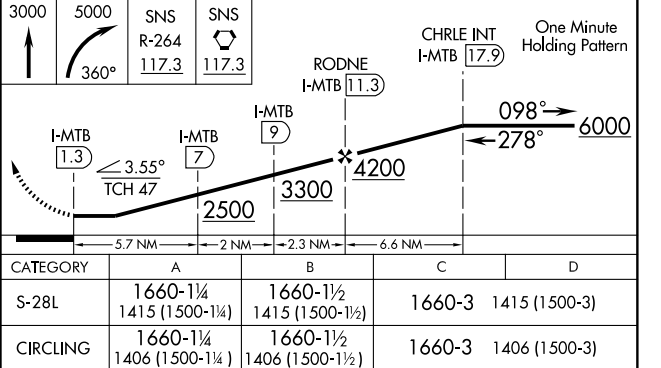
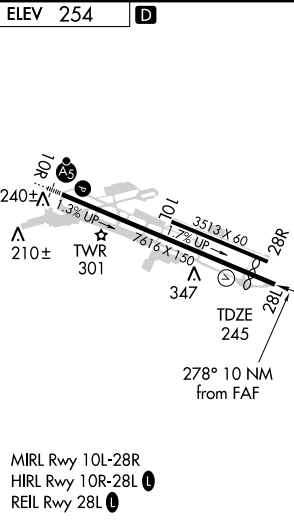
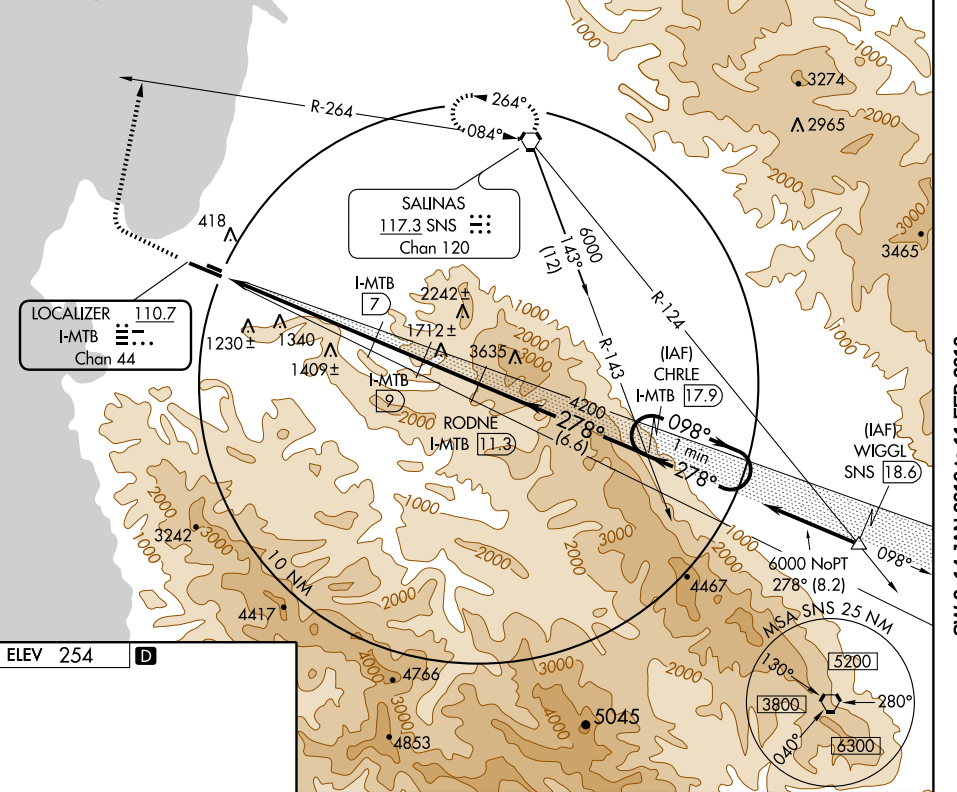
▼

▲

Circling not authorized south of Rwy 28L.
Procedure NA when control tower closed.

MISSED APPROACH: Climb straight ahead to 3000 then climbing right turn to 5000 via heading 360° and SNS R-264 to SNS VORTAC and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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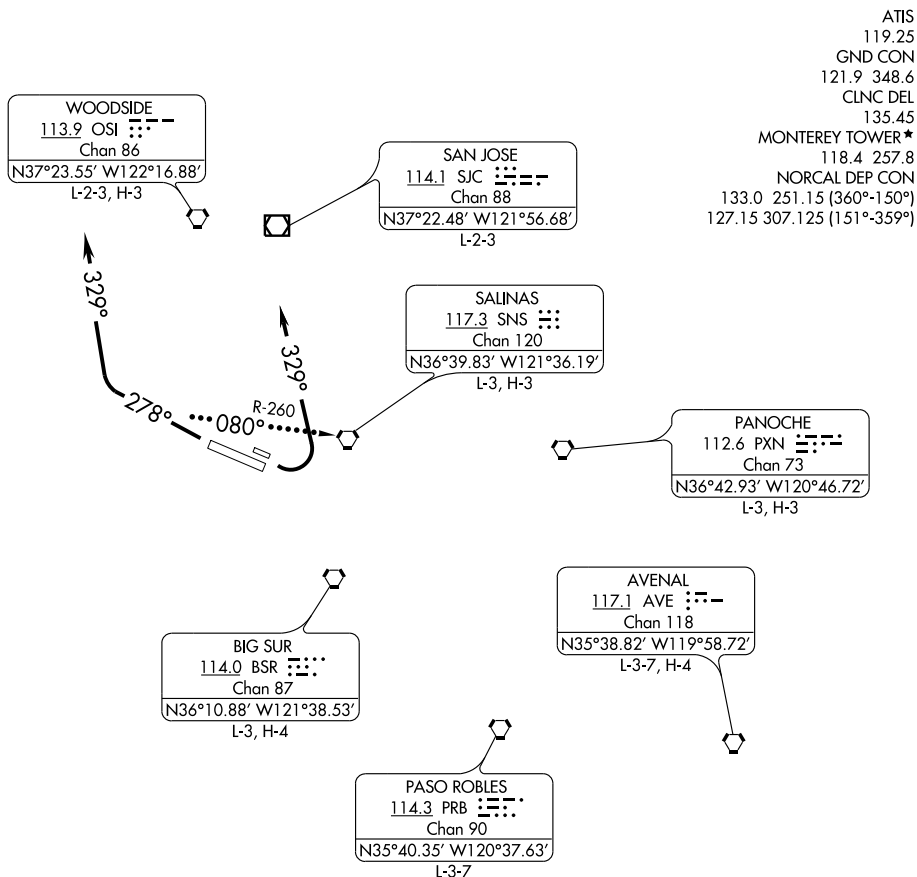
SW-2, 14 JAN 2010 to 11 FEB 2010

MONTEREY NINE DEPARTURE

SL-271 (FAA)

MONTEREY PENINSULA (MRY)

MONTEREY, CALIFORNIA

TAKE-OFF MINIMUMS

Rwy 10R: Standard with a minimum climb of 451' per NM to 1900.

Rwy 10L: Standard with a minimum climb of 428' per NM to 1900.

Rwy 28L: Standard with a minimum climb of 310' per NM to 1100.

Rwy 28R: Standard with a minimum climb of 240' per NM to 1100.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climbing left turn heading 329°. Thence. . .

TAKE-OFF RUNWAY 28L/R: Climb heading 278° until leaving 1100' or as directed by Monterey Tower. Then climbing right turn heading 329°. Thence. . .

. . . all aircraft expect vectors to assigned route/fix. Altitude will be assigned by ATC. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for one minute after departure, proceed via SNS R-260 to SNS VORTAC, then via assigned fix/route. Climb to 6000' or assigned altitude, whichever is higher.

TAKE-OFF OBSTACLE NOTES

Rwy 10R: OL on DME 64' from DER, 284' left of centerline, 12' AGL/272' MSL.

Tree 1.7 NM from DER, 2318' right of centerline, up to 100' AGL/859' MSL.

Rwy 10L: OL on DME 555' from DER, 217' right of centerline, 12' AGL/272' MSL.

Tree 1.8 NM from DER, 2817' right of centerline, up to 100' AGL/859' MSL.

Rwy 28R: Airplane 6' from DER, 179' left of centerline, 64' AGL/263' MSL.

Rwy 28L: Tree 743' from DER, 619' left of centerline, up to 100' AGL/240' MSL.

Tree 2.9 NM from DER, 2298' left of centerline, up to 100' AGL/640' MSL.

Tree 2.9 NM from DER, 4578' left of centerline, 114' AGL/853' MSL.

MOSS LANDING VISUAL RWY 28L

AL-271 (FAA)

MONTEREY PENINSULA (MIRY)

MONTEREY, CALIFORNIA

ATIS 119.25
NORCAL APP CON
133.0 251.15 (360°-150°)
127.15 307.125 (151°-359°)
MONTEREY TOWER ★
118.4 (CTAF) 257.8
GND CON
121.9 348.6
CLNC DEL
135.45

✈ WATSONVILLE
(WVI)

MOSS LANDING
SMOKE STACKS

SALINAS RIVER
MOUTH

5000' Recommended Altitude
to Salinas Airport

RADAR REQUIRED

Weather minima: 3500 feet ceiling and 5 miles visibility.
Vertical Guidance Navaid and Angle: VASI (V4L)-GA 3.50° TCH 47'

MONTEREY BAY

MARINA MUNI
(OAR)

PARACHUTE
JUMPING AREAS

Recommended
At or above
2500

SANTA RITA
Recommended
At or above
5000

SALINAS
117.3 SNS
Chan 120

SALINAS MUNI
(SNS)

SPRECKLES
PLANT

3500

LAGUNA SECA
RACE TRACK

IFR Enroute Low Altitude: US L-2

VFR Sectional Aeronautical Chart (San Francisco)

NM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
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MOSS VISUAL APPROACH RWY 28L
PROCEDURE NOT AUTHORIZED AT NIGHT
PROCEDURE NOT AUTHORIZED
WHEN CONTROL TOWER CLOSED

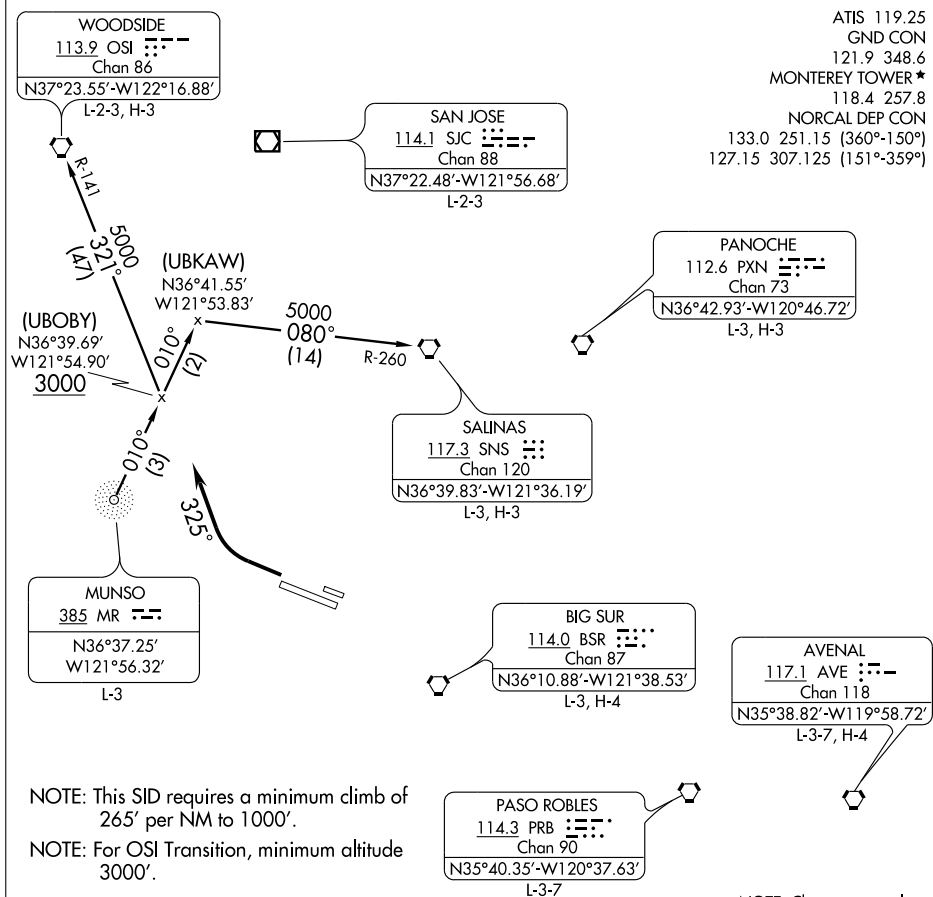
NOTES: Due to practice approaches to RWY 10R, RWY 28L LOC not always activated during VFR conditions.

MUNSO TWO DEPARTURE

SL-271 (FAA)

MONTEREY PENINSULA (MR.Y)

MONTEREY, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 28L/R: After leaving 1000', or as directed by tower, turn right heading 325° and join the 010° bearing from MUNSO NDB, thence via assigned route or transition. Maintain 6000'. Expect clearance to filed altitude five minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for one minute after departure, proceed direct SNS VORTAC, then via assigned fix/route. Climb to 6000' or assigned altitude, whichever is higher.

SALINAS TRANSITION (MR2.SNS): From over MUNSO NDB via MR 010° bearing and SNS R-260 to SNS VORTAC.

WOODSIDE TRANSITION (MR2.OSI): From over MUNSO NDB via MR 010° bearing and OSI R-141 to OSI VORTAC.

PEBBS ONE ARRIVAL

ST-271 (FAA)

MONTEREY PENINSULA
MONTEREY, CALIFORNIA

ATIS

119.25

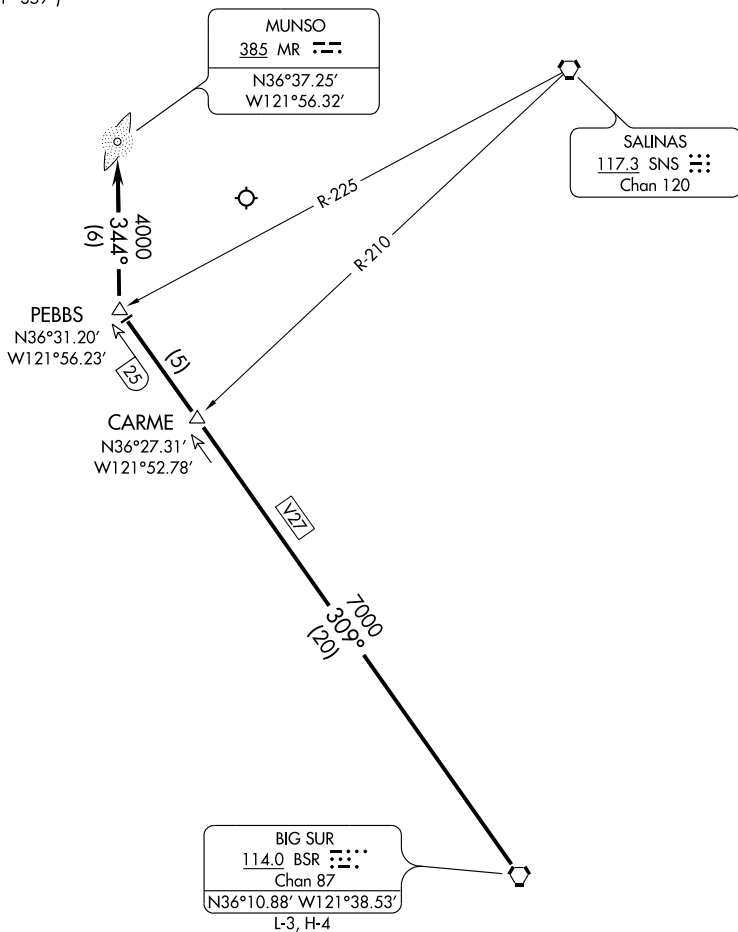
NORCAL APP CON

133.0 251.15 (360°-150°)

127.15 307.125 (151°-359°)

OAKLAND CENTER

128.7 307.0



NOTE: ADF required

From over BSR VORTAC via BSR R-309 to PEBBS Int/DME Fix, thence via 344° course to MUNSO LOM. Expect ILS Runway 10R Approach.

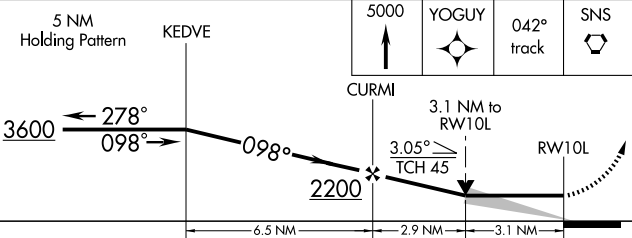
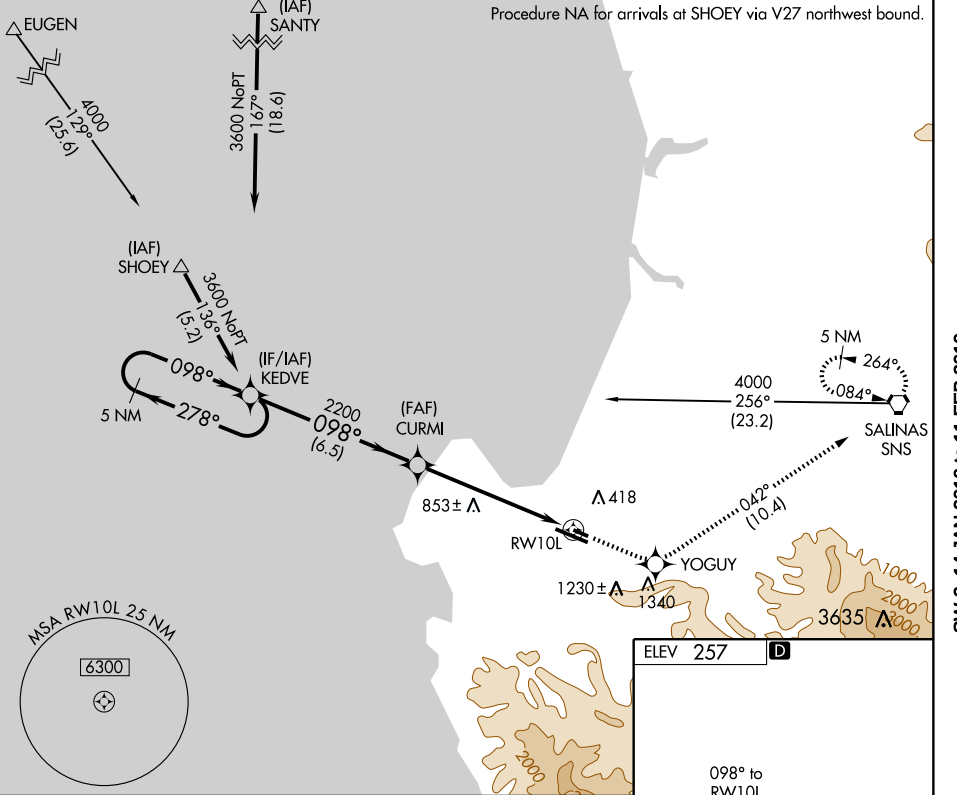
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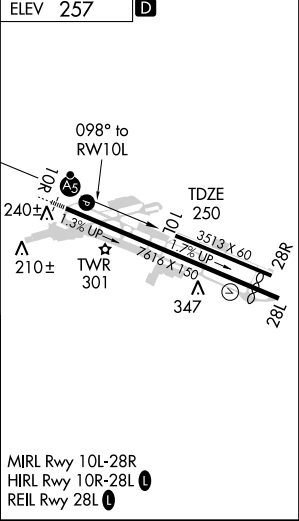
Circling NA south of Rwy 10R-28L.
DME/DME RNP- 0.3 NA.
When control tower closed, straight-in minimums NA.

MISSED APPROACH: Climb to 5000 direct YOGUY and via 042° track to SNS VORTAC and hold, continue climb-in-hold to 5000.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
RNAV MDA	1260-1¼ 1010 (1100-1¼)	1260-1½ 1010 (1100-1½)		NA
CIRCLING	1260-1¼ 1003 (1100-1¼)	1260-1½ 1003 (1100-1½)		NA



APP CRS	Rwy Idg	7616
098°	TDZE	193
	Apt Elev	257

⚠

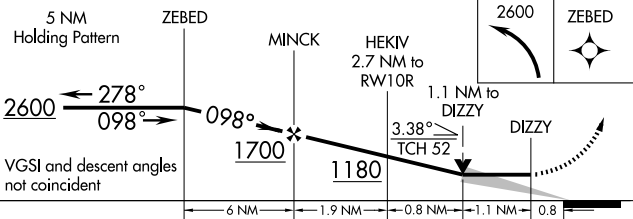
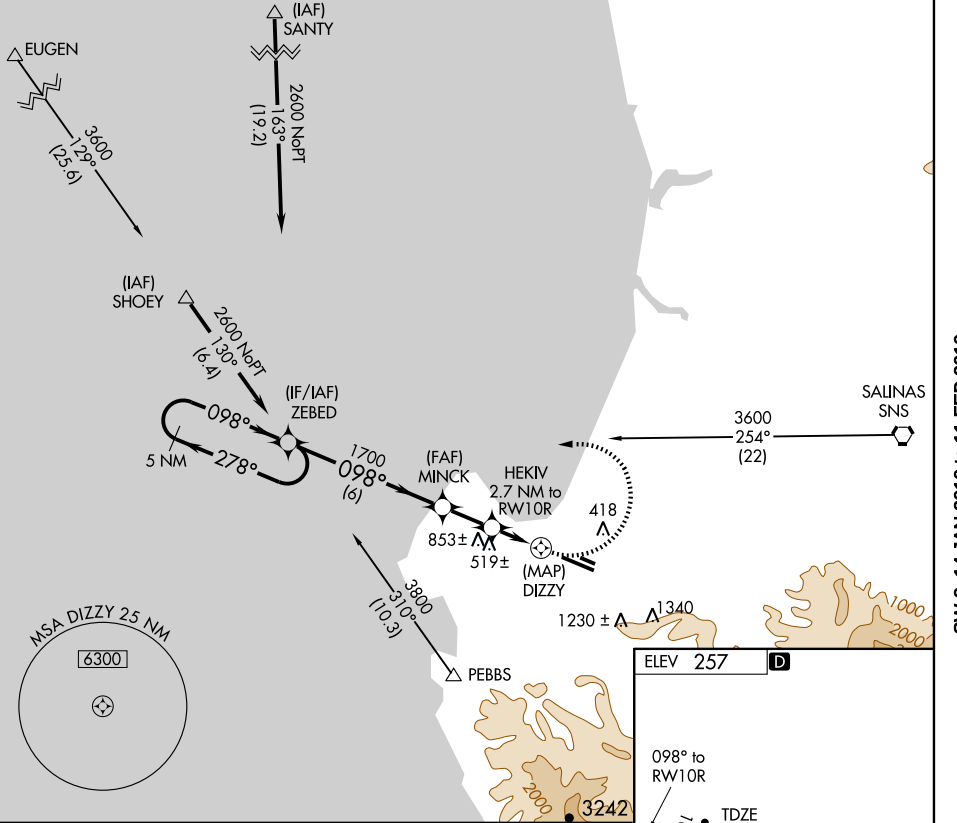
⚠

Circling NA south of Rwy 10R-28L.
DME/DME RNP -0.3 NA.

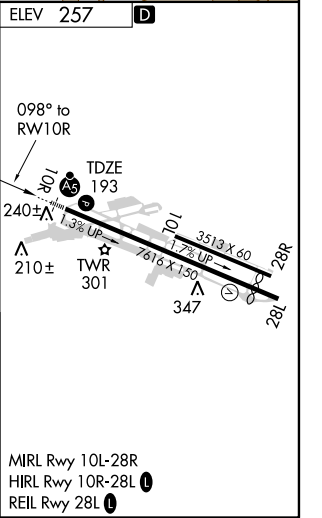
MALSR

MISSED APPROACH: Climbing left turn to 2600 direct ZEBED and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 0 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	800/24	607 (600-1/2)	800/60 607 (600-1/4)	800-1 1/2 607 (600-1/2)
CIRCLING	800-1	543 (600-1)	840-1 3/4 583 (600-1/4)	1080-2 3/4 823 (900-2/4)



MIRL Rwy 10L-28R
HIRL Rwy 10R-28L
REIL Rwy 28L

▼

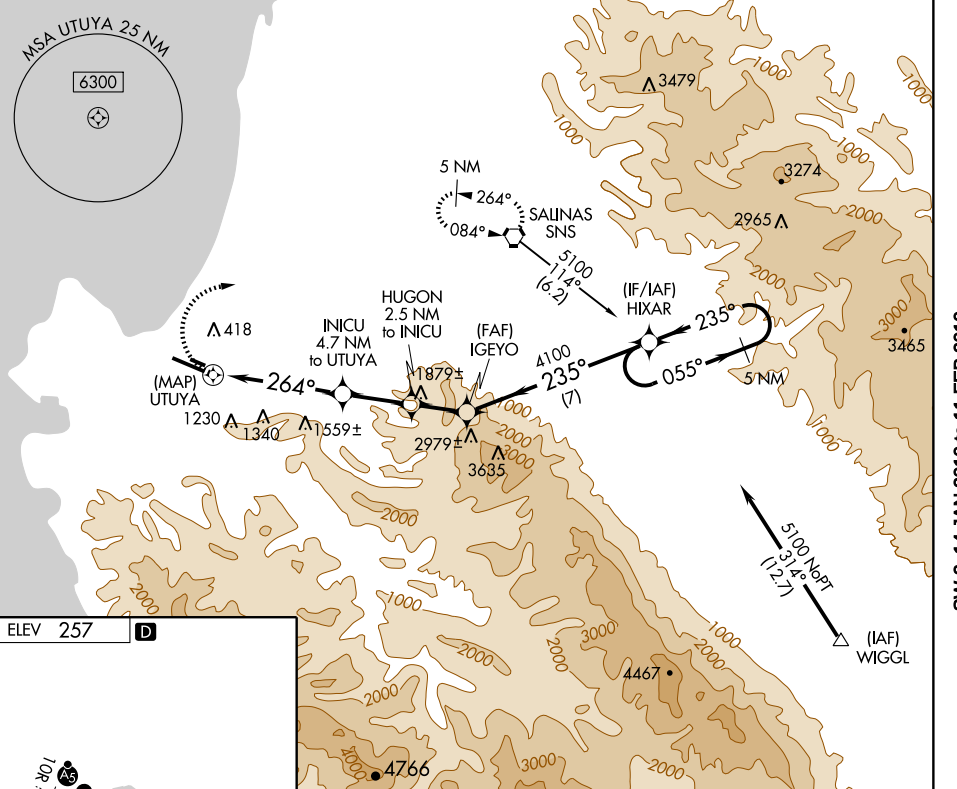
▲

Circling NA south of Rwy 10R-28L.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 6000 direct to SNS VORTAC and hold, continue climb-in-hold to 6000.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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Procedure NA for arrivals on SNS VORTAC airway radials 068 CW 167.



ELEV 257

10R

240±

210±

3513X 60

1.75% UP

7616X 150

347

TDZE 247

28L

AS

TWR 301

MIRL Rwy 10L-28R
HIRL Rwy 10R-28L
REIL Rwy 28L

6000	SNS	VGSI and descent angles not coincident		HIXAR	5 NM Holding Pattern
UTUYA		INICU 4.7 NM to UTUYA	HUGON 2.5 NM to INICU	IGEOY	
2300		264°	3300	235°	055°
0.5		4.7 NM	2.5 NM	2 NM	7 NM
CATEGORY	A	B	C	D	
LNAV MDA	1600-60 1353 (1400-1½)	1600-1½ 1353 (1400-1½)	1600-3 1353 (1400-3)	NA	
CIRCLING	1600-1¼ 1343 (1400-1¼)	1600-1½ 1343 (1400-1½)	1600-3 1343 (1400-3)	NA	

WAAS CH 70699 W10A	APP CRS 098°	Rwy Idg TDZE Apt Elev	7616 193 257
--	------------------------	-----------------------------	---

RNAV (GPS) Z RWY 10R

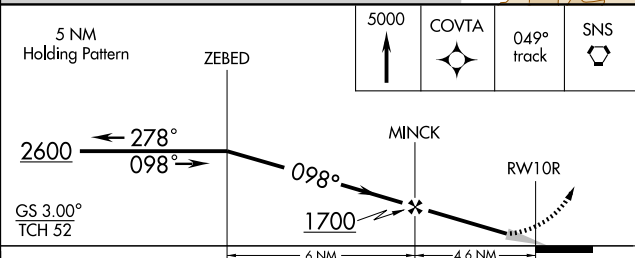
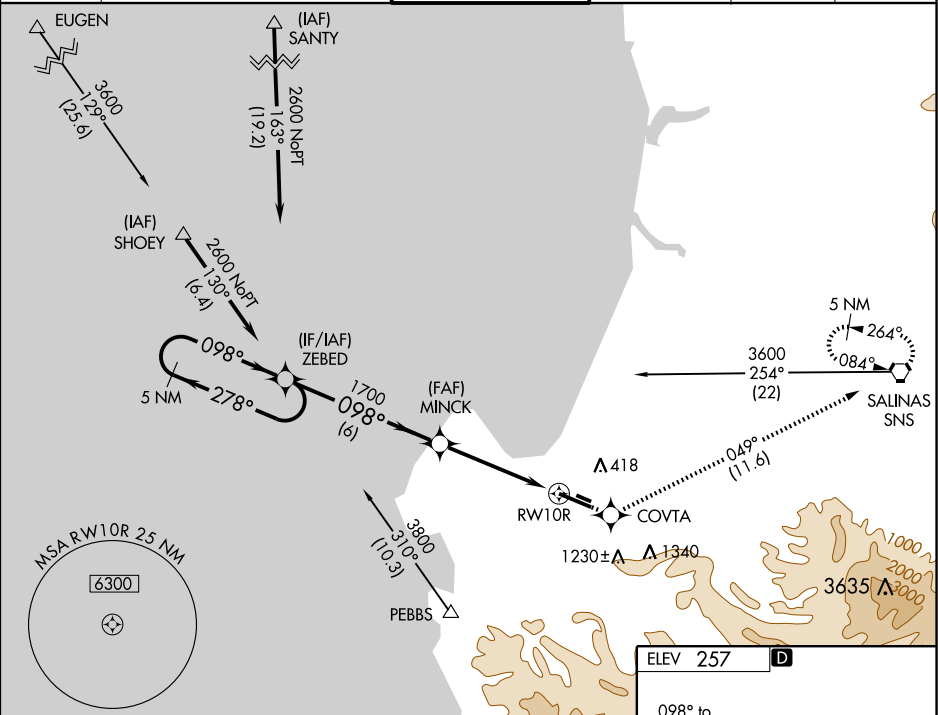
MONTEREY PENINSULA (MRY)

DME/DME RNP-0.3 NA.
For inoperative MALS, increase LPV all Cats
visibility to 1½ mile.

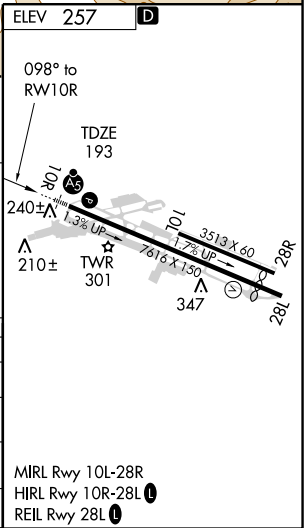


MISSED APPROACH: Climb to 5000 direct COVTA and via 049° track to SNS VORTAC and hold, continue climb-in-hold to 5000.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER ★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	679/60		486 (500-1¼)	
LNAV/ VNAV DA			NA	
LNAV MDA			NA	
CIRCLING			NA	



APP CRS 279°	Rwy Idg TDZE Apt Elev	6616 247 257
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RNAV (RNP) Z RWY 28L

MONTEREY PENINSULA (MRY)

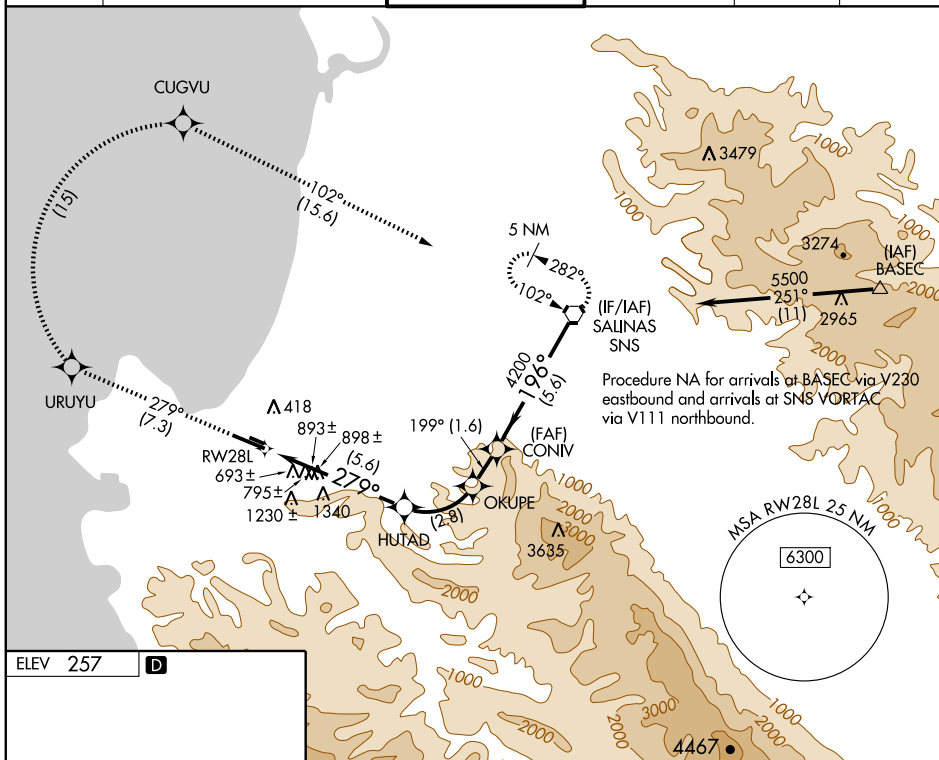
NA RF and GPS required. When VGSI inoperative, RNP 0.30 DA NA at night. For uncompensated Baro-VNAV systems, procedure NA below 0°C (32°F) or above 39°C (102°F). Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5500 via 279° track to URUYU and via right turn to CUGVU and via 102° track to SNS VORTAC and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 [15]°-359°
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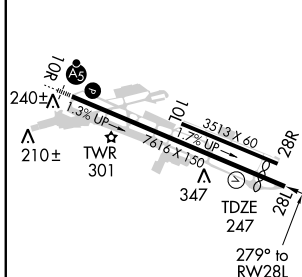
MONTEREY TOWER★
118.4(CTAF) 257.8

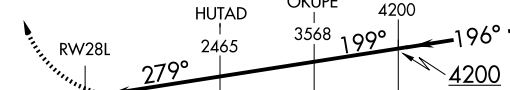
GND CON
121.9 348.6

CLNC DEL
135.45UNICOM
122.95

ELEV	257
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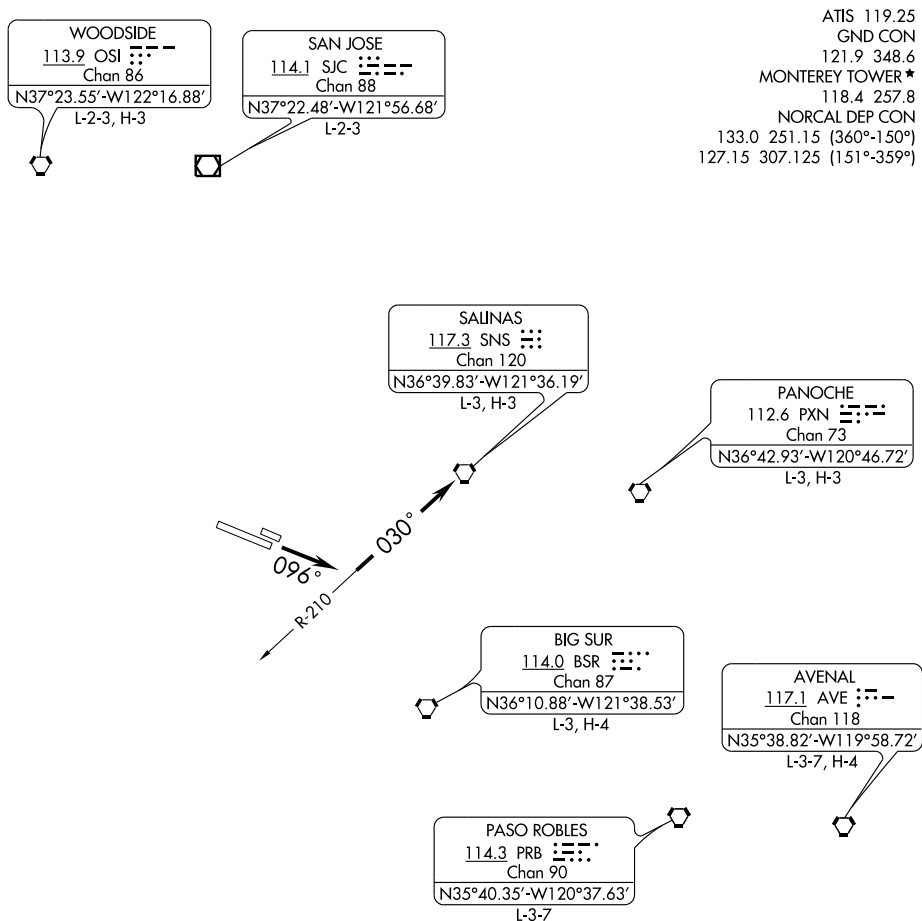
D



5500 ↑ 279°	URUYU 	CUGVU 	102° track	SNS 	CONIV	VORTAC
						Procedure Turn NA <u>5500</u> GP 3.60° TCH 50
CATEGORY	A	B	C	D		
RNP 0.10 DA	497/40	250 (300-¾)			NA	
RNP 0.20 DA	1196-2¾	949 (1000-2¾)			NA	
RNP 0.30 DA	1257-3	1010 (1000-3)			NA	

MIRL Rwy 10L-28R
HIRL Rwy 10R-28L (L)
REIL Rwy 28L (L)

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



NOTE: This SID requires a minimum climb of 405' per NM to 4000'.

NOTE: Minimum assignable altitude 6000'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb via heading 096° and intercept the SNS R-210 to SNS VORTAC, thence via assigned route, maintain 6000'. Expect clearance to filed altitude 5 minutes after departure.

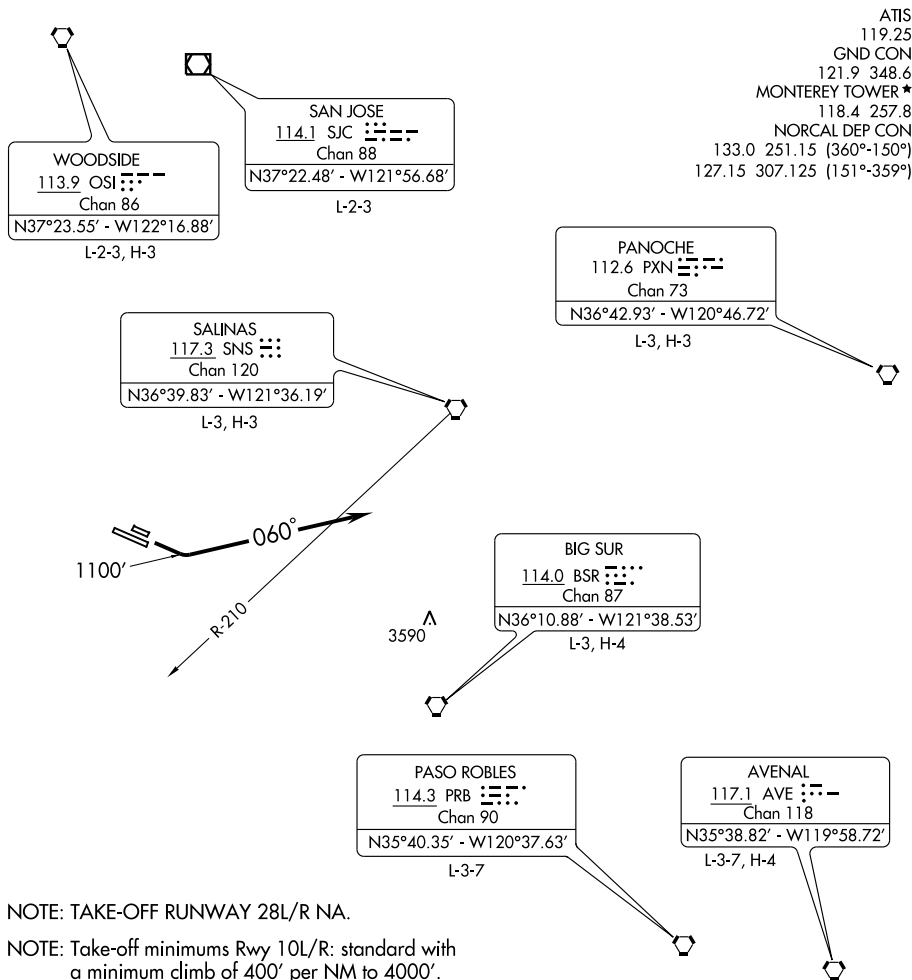
LOST COMMUNICATIONS: If no transmissions received for one minute after departure, proceed to the SNS VORTAC, then via assigned fix/route. Climb to 6000' or assigned altitude, whichever is higher.

TORO FIVE DEPARTURE

09351

SL-271 (FAA)

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb runway heading to 1100', then climbing left turn heading 060°. Expect vectors to filed route after passing SNS R-210. Maintain 6000' or assigned higher altitude. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure climb direct SNS VORTAC, then via assigned fix/route. Maintain 6,000' or assigned higher altitude.

SW-2, 14 JAN 2010 to 11 FEB 2010

ATIS
 124.175 283.0
 MOFFETT TOWER ★
 119.55 346.25
 GND CON —
 121.85 336.4
 CLNC DEL
 380.8

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

37°26'N

VAR 14.7° E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

RWY 14L-32R
S64, D110, ST144, SBTT410, TDT528, TRT390
RWY 14R-32L
S82, D142, ST175, DT300, DDT609, TDT814

37°25'N

SW-2. 14 JAN 2010 to 11 FEB 2010

122°03'W

FIELD
ELEV
32

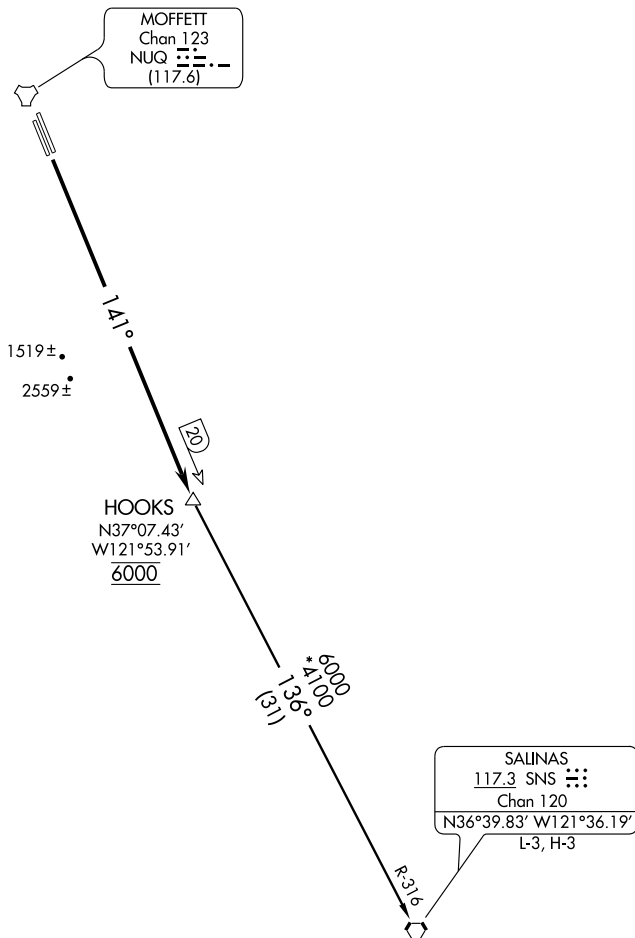
122°02'W

HOOKS ONE DEPARTURE

MOUNTAIN VIEW/ MOFFETT FEDERAL AFLD (NUQ)
SL-410 (FAA)

MOUNTAIN VIEW, CALIFORNIA

ATIS
124.175 283.0
CLNIC DEL
380.8
GND CON
121.85 336.4
MOFFETT TOWER ★
119.55 (CTAF) 346.25
NORCAL DEP CON
120.1 290.25



NOTE: TACAN required.

TAKE-OFF MINIMUMS

Rwy 14R/14L: Standard with the following minimum climb gradients:

Rwy 14R: Obstacle climb of 314' per NM to 4900, ATC climb of 332' per NM to 6000.

Rwy 14L: Obstacle climb of 314' per NM to 4900, ATC climb of 328' per NM to 6000.

Rwy 32R/32L: NA, ATC.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb via NUQ R-141 to cross HOOKS/NUQ 20 DME at 6000, thence

. . . . via (transition).

VALLEY TRANSITION (HOOKS1.SNS): From over HOOKS DME via SNS R-316 to SNS VORTAC.

ILS OR LOC/DME RWY 32R
MOUNTAIN VIEW/MOFFETT FEDERAL AFLD (NUQ)

ALSF-1

MISSED APPROACH: Climb to 3200
via NUQ TACAN and NUQ R-321 to
PEYIC/NUQ 16 DME and hold.

3200 ↑	NUQ R-321 Chan 123	PEYIC NUQ [16]	VGSI and ILS glidepath not coincident. TACAN EBIM NUQ [8] 2100 JULUD NUQ [10.8] RIROC NUQ [14.3] AGAPE NUQ [16.5] HOOKS NUQ [20] 322° 5500 3000 4100 4800 GS 3.00° TCH 57								
0.4		5.8 NM		2.8 NM		3.5 NM		2.2 NM		3.5 NM	
CATEGORY	A		B		C		D		E		
S-ILS 32R	227/40 200 (200-¾)										
S-LOC 32R	580/40 553 (600-¾)				580/50 553 (600-1)		580/60 553 (600-1¼)		580-1½ 553 (600-1½)		
CIRCLING	580-1 548 (600-1)				580-1½ 548 (600-1½)		600-2 568 (600-2)		840-2¾ 808 (900-2¾)		

LOC I-MNQ <u>110.35</u>	APP CRS 142°	Rwy Idg 9202 TDZE 2 Apt Elev 32
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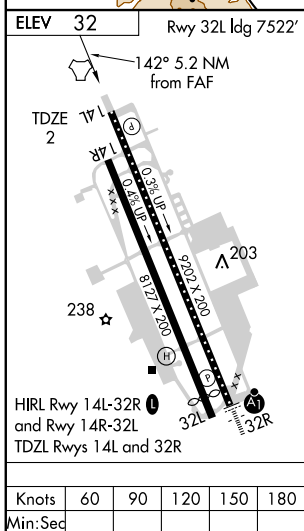
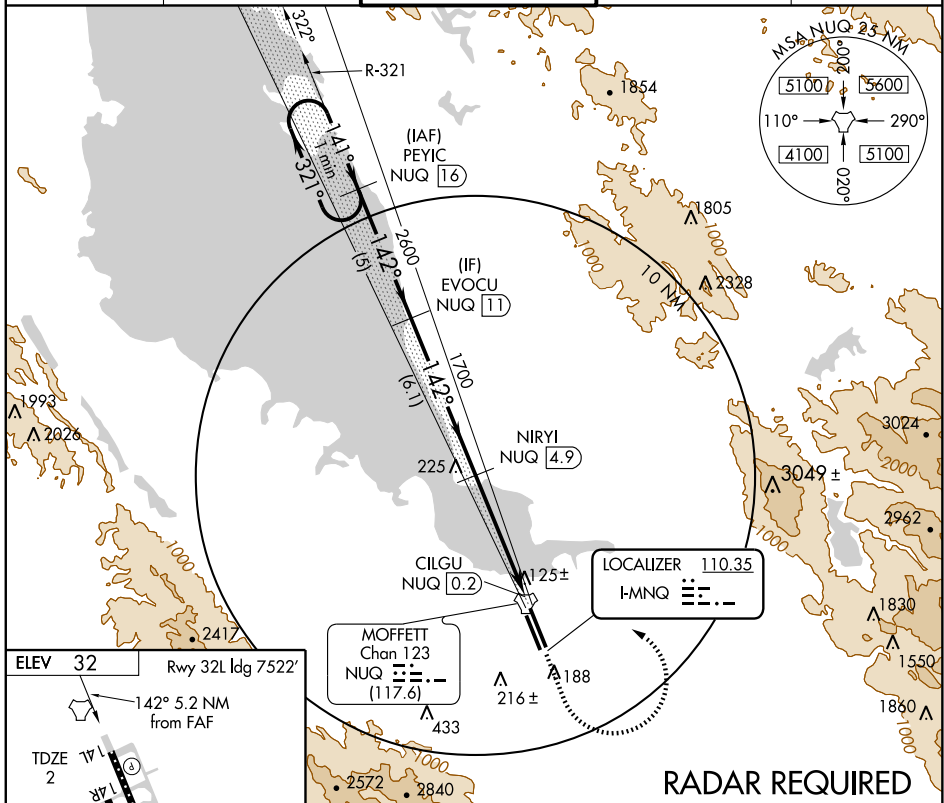
LOC/DME RWY 14L

MOUNTAIN VIEW/MOFFETT FEDERAL AFLD (NUQ)

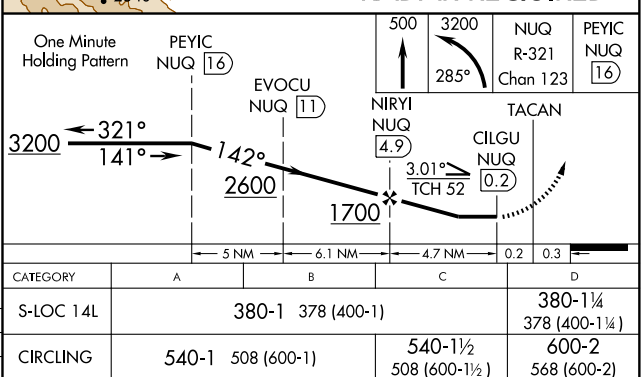
T	DME from NUQ TACAN. Simultaneous reception of I-MNQ and NUQ DME required.
A NA	TACAN required.

MISSED APPROACH: Climb to 500 then climbing left turn to 3200 via heading 285° and NUQ R-321 to PEYIC NUQ 16 DME and hold.

ATIS 124.175 283.0	NORCAL APP CON 120.1 290.25	MOFFETT TOWER ★ 119.55 (CTAF) 346.25	GND CON 121.85 336.4	CLNC DEL 380.8
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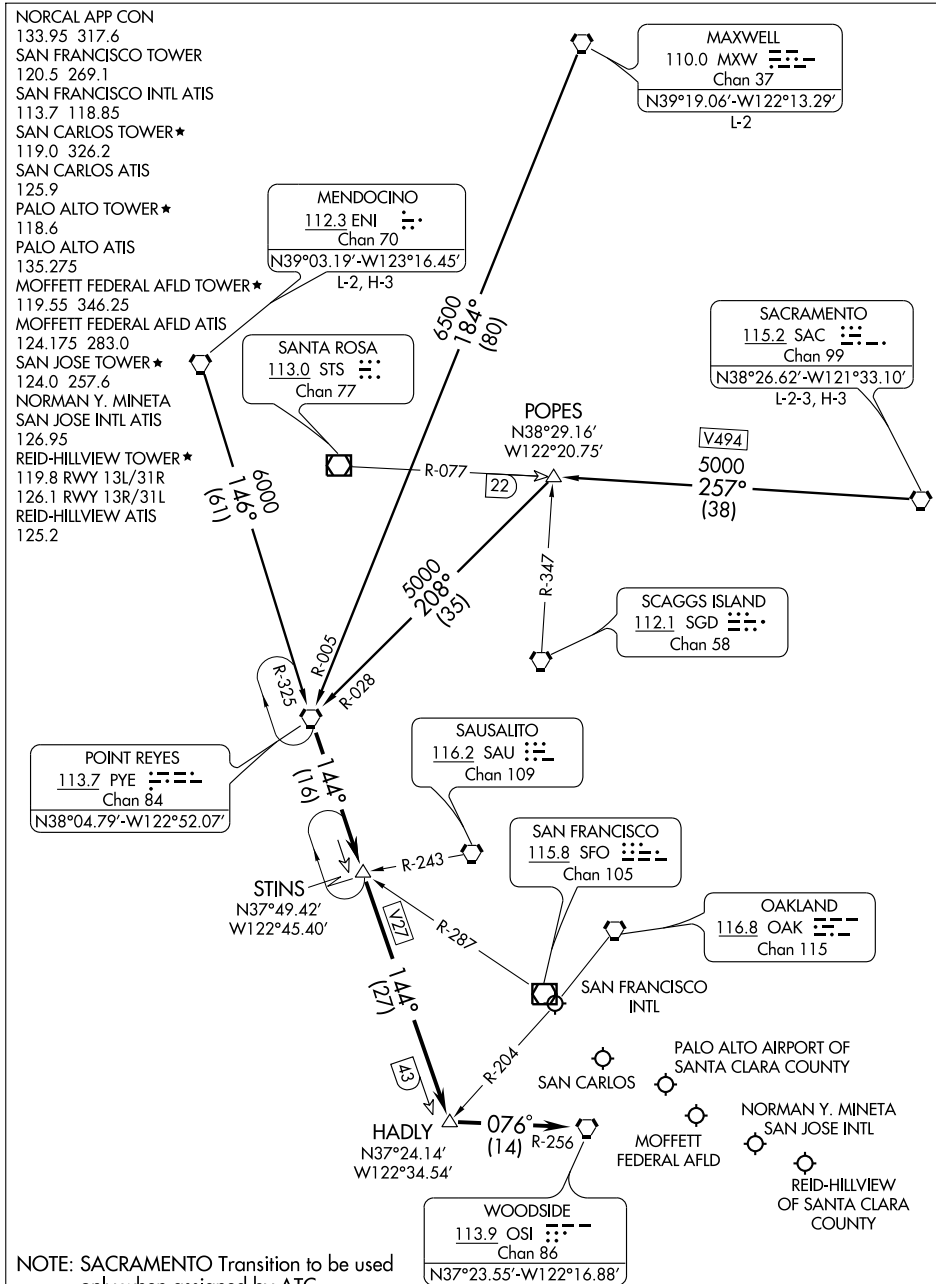
RADAR REQUIRED



POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

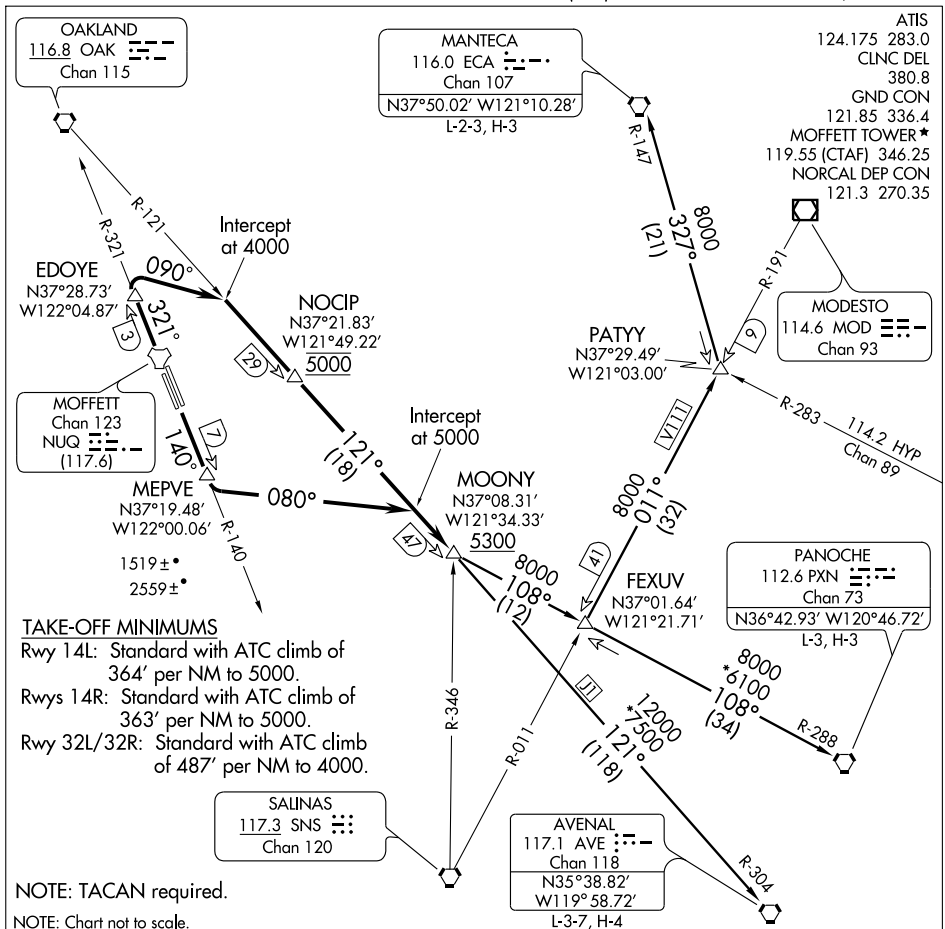
MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

SOUTHLAND ONE DEPARTURE

SL-410 (FAA) MOUNTAIN VIEW, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb via NUQ R-140 to MEPVE/NUQ 7 DME, then climbing left turn via heading 080° to intercept OAK R-121 at 5000, then via OAK R-121 to MOONY INT, thence . . .

TAKE-OFF RUNWAYS 32L/32R: Climb via NUQ R-321 to EDOYE/NUQ 3 DME, then climbing right turn via heading 090° to intercept OAK R-121 at 4000, then via OAK R-121 to cross NOCIP/OAK 29 DME at 5000, then via OAK R-121 to MOONY INT, thence . . .

. . . cross MOONY INT at or above 5300, then via (Transition).

AVENAL TRANSITION (SOLN1.AVE): From over MOONY INT via OAK R-121 and AVE R-304 to AVE VORTAC.

MANTECA TRANSITION (SOLN1.ECA): From over MOONY INT via PXN R-288, MOD R-191, and ECA R-147 to ECA VORTAC.

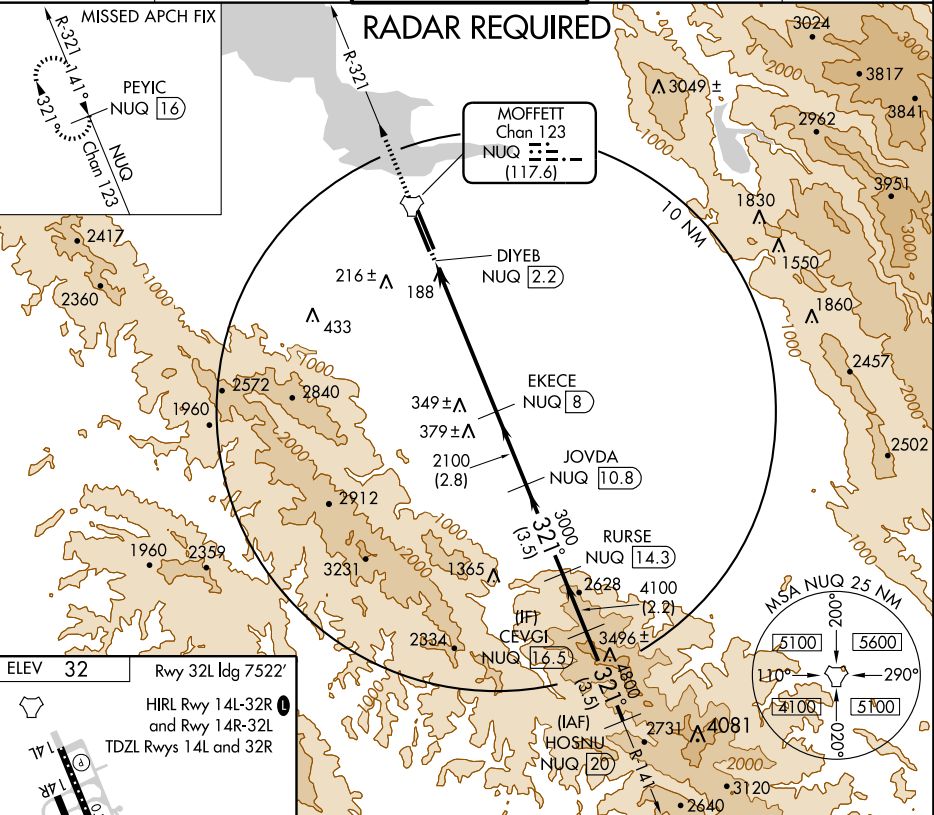
PANOCHE TRANSITION (SOLN1.PXN): From over MOONY INT via PXN R-288 to PXN VORTAC.

TACAN NUG	APP CRS	Rwy Idg	7522
Chan 123	321°	TDZE	31
		Apt Elev	32

MOUNTAIN VIEW/ MOFFETT FEDERAL AFLD (NUQ)

▼ NA	MISSED APPROACH: Climb to 3200 via NUG TACAN and NUG R-321 to PEYIC/16 DME and hold.
--------------------------------------	--

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON	CLNC DEL
124.175 283.0	120.1 290.25	119.55 (CTAF) 346.25	121.85 336.4	380.8



3200	NUQ R-321 Chan 123	PEYIC NUG 16	JOVDA NUG 10.8	RURSE NUG 14.3	CEVGI NUG 16.5	HOSNU NUG 20
TACAN	DIYEB NUG 2.2	NUQ 3.4	EKECE NUG 8	3000	4100	5500
321°	3.01° TCH 55	2100	3000	4100	4800	5500
0.4	1.3 NM	4.5 NM	2.8 NM	3.5 NM	2.2 NM	3.5 NM
CATEGORY	A	B	C	D	E	
S-32L	620-1 589 (600-1)	620-1½ 589 (600-1½)	620-1¾ 589 (600-1¾)	620-2 589 (600-2)	620-2 840 (600-2)	620-2 840 (600-2)
CIRCLING	620-1 588 (600-1)	620-1½ 588 (600-1½)	620-1¾ 588 (600-1¾)	620-2 588 (600-2)	620-2 840 (600-2)	620-2 840 (600-2)
Knots	60	90	120	150	180	
Min:Sec						

TACAN NUG	APP CRS	Rwy Idg	9202
Chan 123	321°	TDZE	27
		Apt Elev	32

MOUNTAIN VIEW/MOFFETT FEDERAL AFLD (NUQ)

T

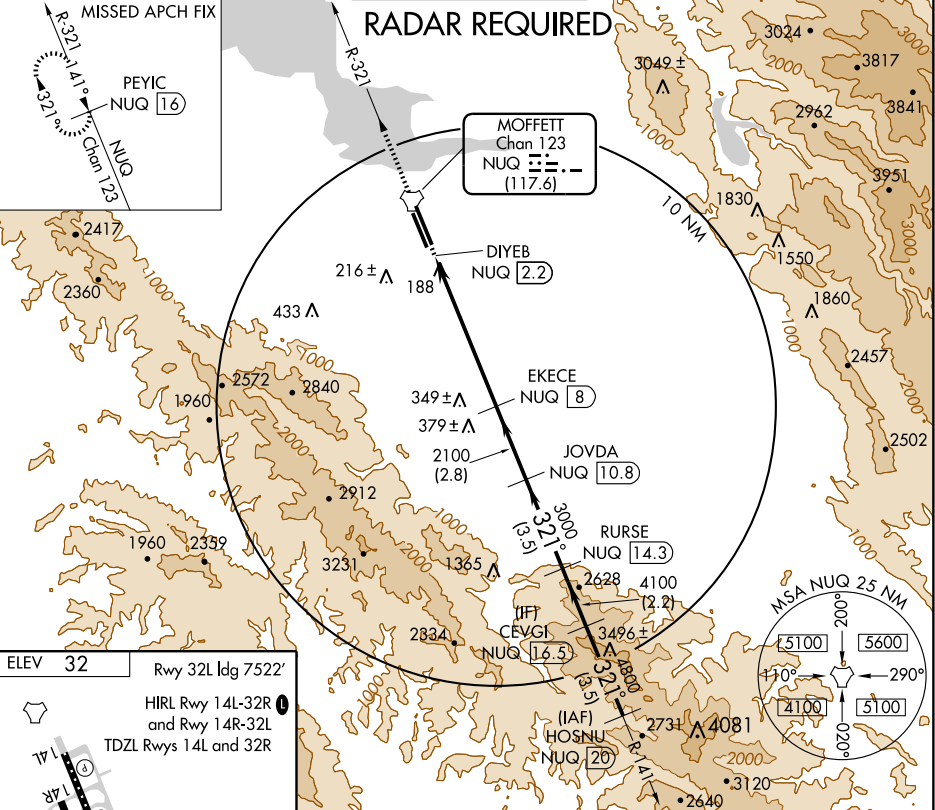
For inoperative ALSF, increase S-32R Cats A/B visibility to RVR 5000 and Cat E to 2.

ALSF-1

MISSED APPROACH:

Climb to 3200 via NUG TACAN and NUG R-321 to PEYIC/16 DME and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON	CLNC DEL
124.175 283.0	120.1 290.25	119.55 (CTAF) 346.25	121.85 336.4	380.8

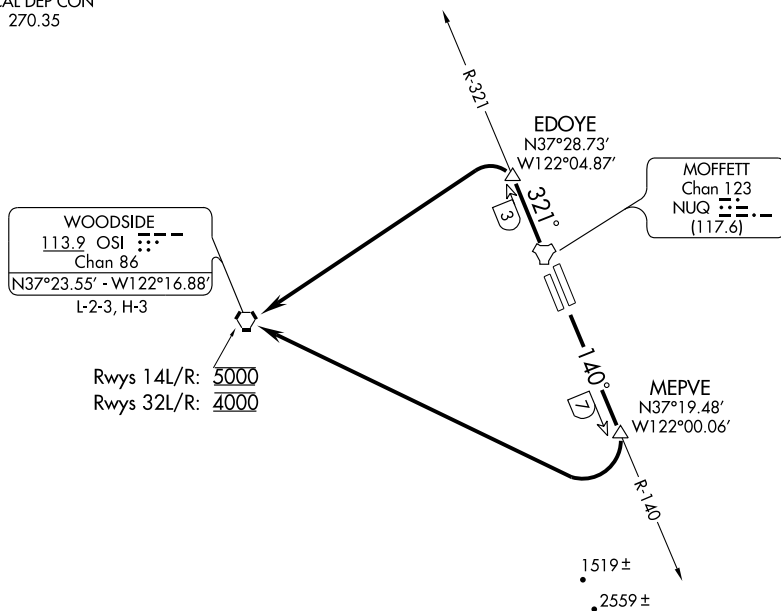


3200	NUQ R-321 Chan 123	PEYIC NUG 16	EKECE NUG 8	JOVDA NUG 10.8	RURSE NUG 14.3	CEVGI NUG 16.5	HOSNU NUG 20
TACAN	DIYEB NUG 2.2	NUQ 3.5	NUQ 8	3000	4100	4800	5500
0.4	1.3 NM	4.5 NM	2.8 NM	3.5 NM	2.2 NM	3.5 NM	
CATEGORY	A	B	C	D	E		
S-32R	620/40 593 (600-¾)	620/50 593 (600-1)	620/50 593 (600-1)	620/60 593 (600-1¼)	620-1½ 593 (600-1½)		
CIRCLING	620-1 588 (600-1)	620-1½ 588 (600-1½)	620-2 588 (600-2)	620-2½ 588 (600-2½)	620-3 808 (900-2¾)		
Knots	60	90	120	150	180		
Min:Sec							

WOODSIDE ONE DEPARTURE

MOUNTAIN VIEW/ MOFFETT FEDERAL AFLD (NUQ)
SL-410 (FAA) MOUNTAIN VIEW, CALIFORNIA

ATIS
124.175 283.0
CLNC DEL
380.8
GND CON
121.85 336.4
MOFFETT TOWER ★
119.55 (CTAF) 346.25
NORCAL DEP CON
121.3 270.35

TAKE-OFF MINIMUMS

Rwy 14L/14R: Standard with minimum climb of 402' per NM to 5000.

Rwy 32R: Standard with minimum climb of 250' per NM to 4000.

Rwy 32L: Standard with minimum climb of 246' per NM to 4000.

NOTE: TACAN required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb via NUQ R-140 to MEPVE/NUQ 7 DME, then right turn direct to cross OSI VORTAC at 5000, thence . . .

TAKE-OFF RUNWAYS 32L/32R: Climb via NUQ R-321 to EDOYE/NUQ 3 DME, then turn left direct to cross OSI VORTAC at 4000, thence . . .

. . . via RADAR vectors or assigned route.

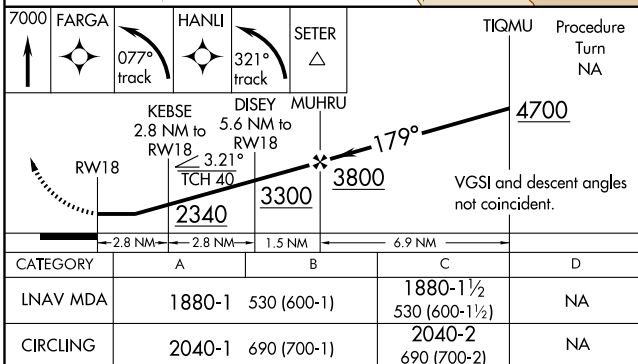
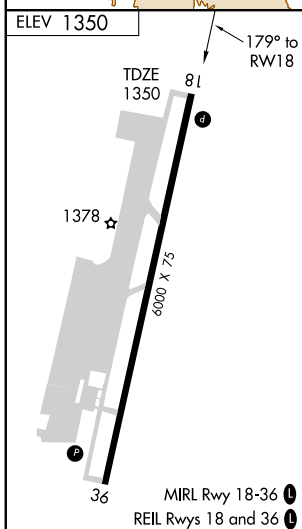
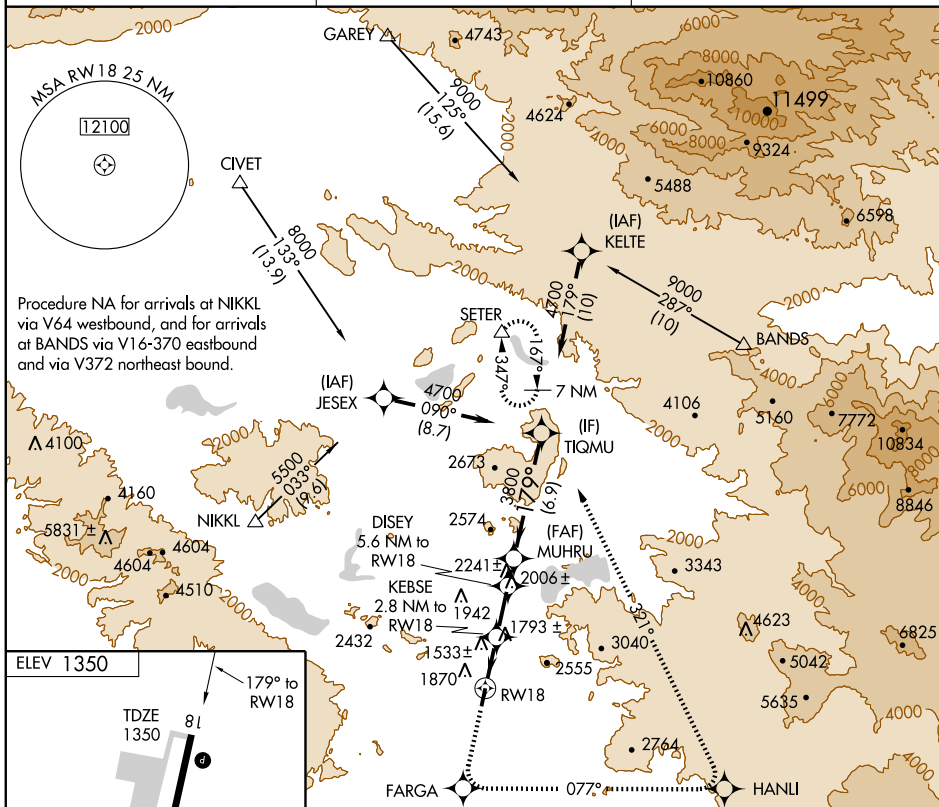
RNAV (GPS) RWY 18

MURRIETA/TEMECULA/FRENCH VALLEY (F70)

MISSED APPROACH: Climb to 7000 direct FARGA and left turn via 077° track to HANLI and left turn via 321° track to SETER and hold.

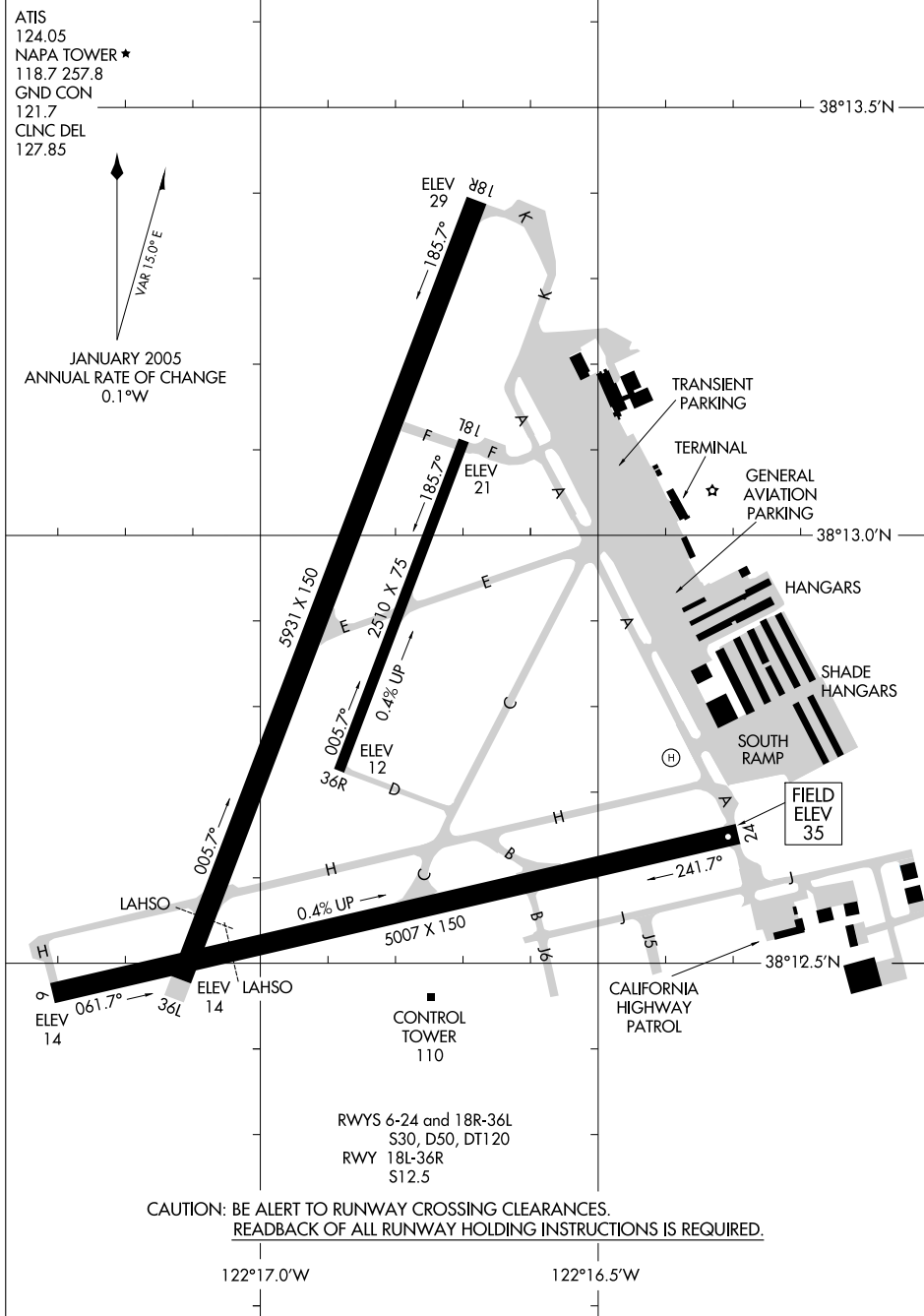
UNICOM

122.8 (CTAF) L



AIRPORT DIAGRAM

AL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIA

LIZRD THREE DEPARTURE

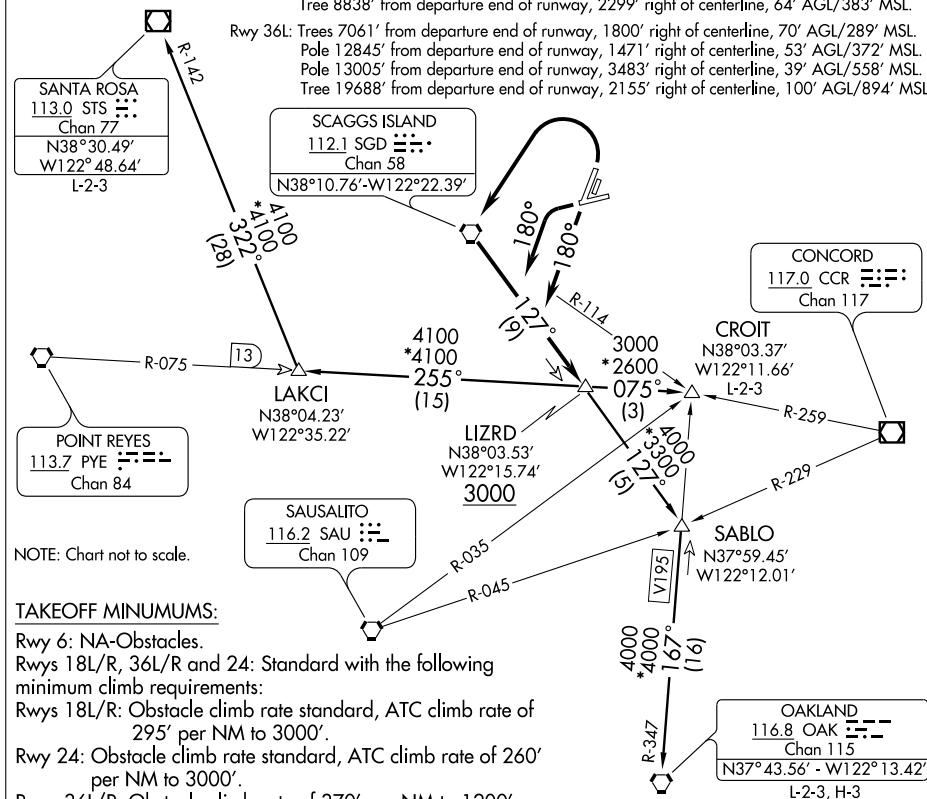
SL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIA

ATIS 124.05
GND CON
121.7
OAKLAND CENTER
127.8 353.5

TAKEOFF OBSTACLES:

Rwy 18L: Tree 4982' from departure end of runway, 237' left of centerline, 58' AGL/92' MSL.
Rwy 24: Bridge 4964' from departure end of runway, 1716' right of centerline, 167' AGL/167' MSL.
Rwy 36R: Floodlight 462' from departure end of runway, 339' right of centerline, 29' AGL/53' MSL.
Tree 8701' from departure end of runway, 1286' right of centerline, 70' AGL/289' MSL.
Tree 8838' from departure end of runway, 2299' right of centerline, 64' AGL/383' MSL.
Rwy 36L: Trees 7061' from departure end of runway, 1800' right of centerline, 70' AGL/289' MSL.
Tree 12845' from departure end of runway, 1471' right of centerline, 53' AGL/372' MSL.
Pole 13005' from departure end of runway, 3483' right of centerline, 39' AGL/558' MSL.
Tree 19688' from departure end of runway, 2155' right of centerline, 100' AGL/894' MSL.



TAKEOFF MINIMUMS:

Rwy 6: NA-Obstacles.
Rwys 18L/R, 36L/R and 24: Standard with the following minimum climb requirements:
Rwys 18L/R: Obstacle climb rate standard, ATC climb rate of 295' per NM to 3000'.
Rwy 24: Obstacle climb rate standard, ATC climb rate of 260' per NM to 3000'.
Rwys 36L/R: Obstacle climb rate of 370' per NM to 1200'.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 18L/R: Climb via 180° heading to intercept and proceed outbound via the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3000'. Thence. . .

TAKE-OFF RUNWAY 24: Turn left, climb via 180° heading to intercept and proceed outbound via the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3000'. Thence. . .

TAKE-OFF RUNWAYS 36L/R: Turn left direct SGD VORTAC, proceed outbound via the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3000'. Thence. . .

. . . via (transition) or (assigned route).

CROIT TRANSITION (LIZRD3.CROIT): From over LIZRD INT via PYE R-075 to CROIT INT.

OAKLAND TRANSITION (LIZRD3.OAK): From over LIZRD INT via SGD R-127 and OAK R-347 to OAK VORTAC.

SANTA ROSA TRANSITION (LIZRD3.STS): From over LIZRD INT via PYE R-075 and STS R-142 to STS VOR/DME.

LOC I-APC <u>111.3</u>	APP CRS 005°	Rwy Idg TDZE Apt Elev	5931 14 33
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LOC RWY 36L
NAPA COUNTY (APC)

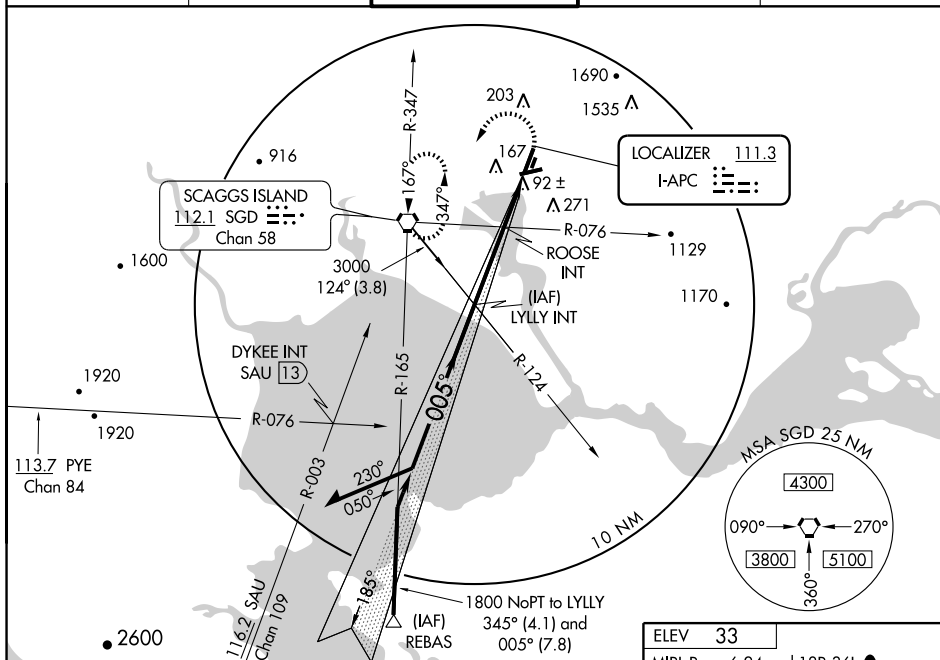
- T** When control tower closed, use Travis AFB altimeter
A setting and increase all MDAs 60 feet.
 † Circling not authorized northeast of Rwy 18R and 24.
 † Inoperative table does not apply to MALS for Cat.D.
 † Inoperative table does not apply to MALS for Cat. C & D.

MALS



MISSED APPROACH: Climb to 440, then climbing left turn to 3000 direct SGD VORTAC and hold.

ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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Remain within 10 NM

2800

185°

005°

VGS I and descent angles not coincident

LYLly INT

3.27% TCH 55

ROOSE INT

1800

600

*660 when using Travis altimeter setting

440	3000	SGD
↑	↷	⬠
		112.1

CATEGORY	A	B	C	D
S-LOC 36L [†]	600-3/4 567 (600-1)	586 (600-3/4)	600-1 1/2 586 (600-1 1/2)	600-1 3/4 586 (600-1 3/4)
CIRCLING	600-1 567 (600-1)	620-1 587 (600-1)	620-1 1/2 587 (600-1 1/2)	1140-3 1107 (1200-3)
ROOSE MINIMUMS				
S-LOC 36L ^{††}	360-3/4 346 (400-3/4)			360-1 1/4 346 (400-1 1/4)
CIRCLING	600-1 567 (600-1)	620-1 587 (600-1)	620-1 1/2 587 (600-1 1/2)	1140-3 1107 (1200-3)

ELEV 33

MIRL Rwy 6-24 and 18R-36L

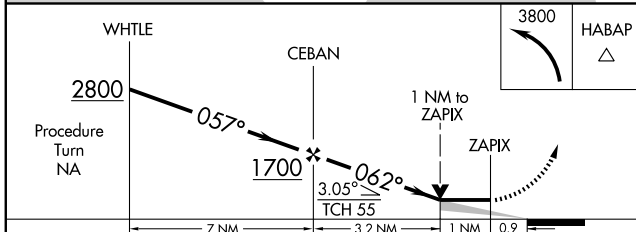
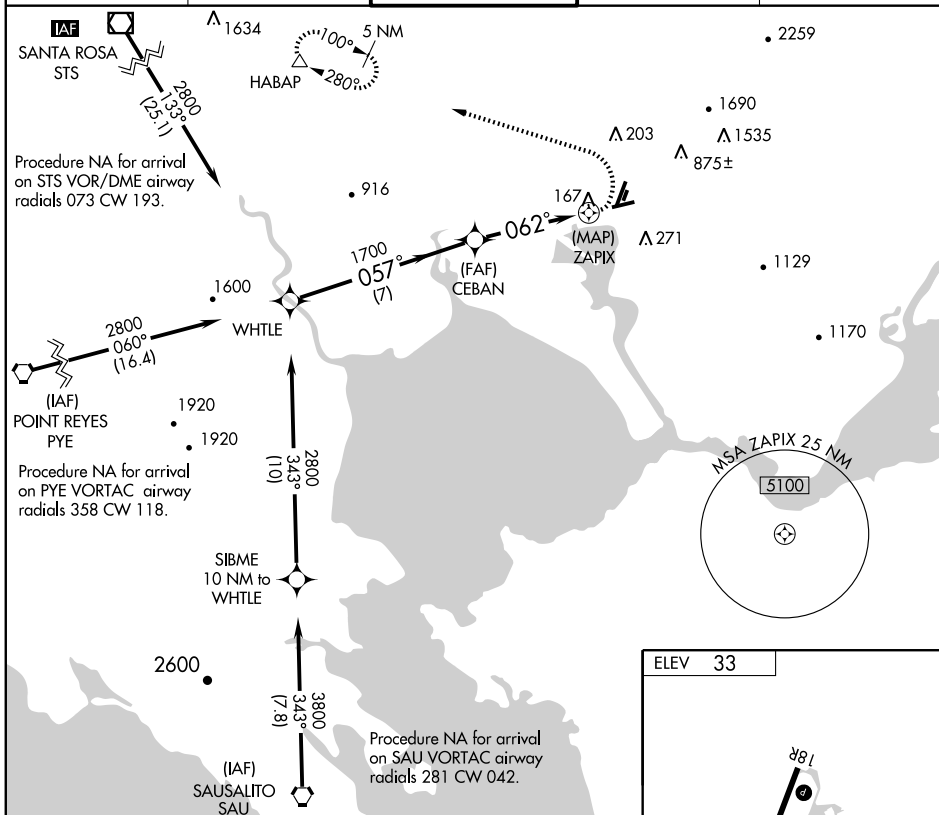
REIL Rwy 6

Diagram illustrating the FAF to MAP 5 NM for the 005° 5 NM from FAF approach. The diagram shows a triangular path with legs labeled 5071 X 150, 23170 X 75, and 5007 X 150. It includes various navigation aids like TDZE 14, 36L, 36R, 110, 18R, 78L, 24, and 92. A star symbol is also present.

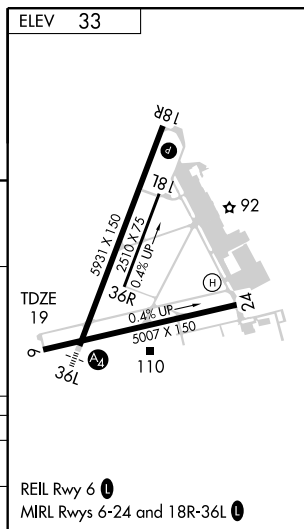
T Circling NA northeast of Rwy 18R and 24.
A NA **IAF** ARM APPROACH MODE PRIOR TO IAF.
 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 3800 direct HABAP and hold.

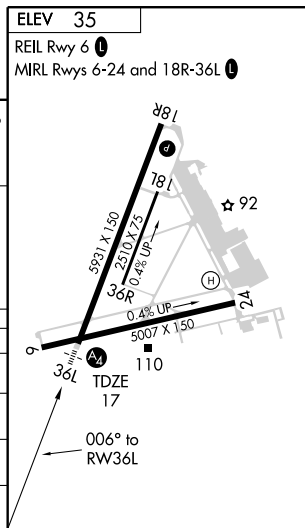
CLNC DEL
127.85



CATEGORY	A	B	C	D
LNAV MDA	660-1 641 (700-1)		660-1 34 641 (700-1 34)	660-2 641 (700-2)
CIRCLING	660-1 627 (700-1)		720-2 687 (700-2)	1240-3 1207 (1300-3)



ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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RNAV (GPS) Z RWY 36L
NAPA COUNTY (APC)

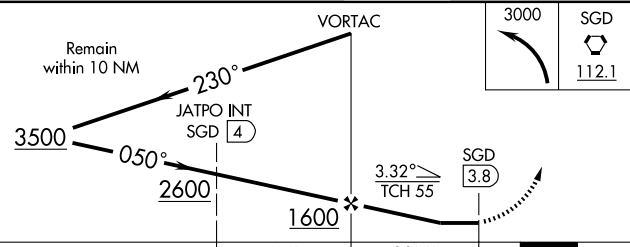
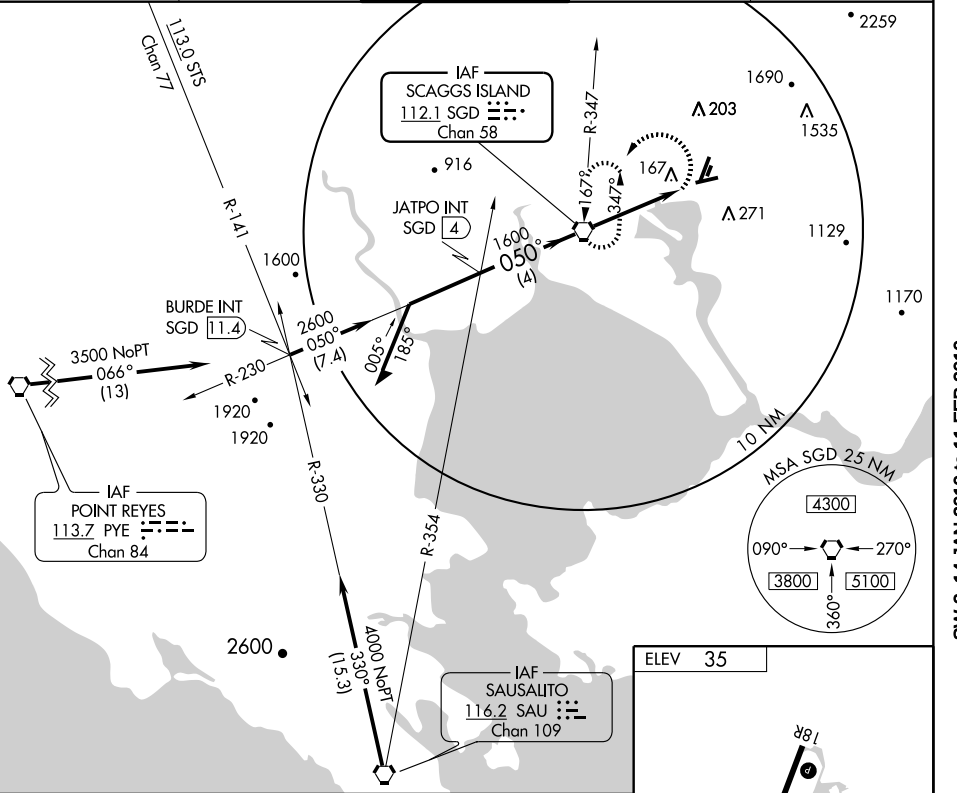
MISSED APPROACH:
Climb to 5000 direct
CIVDA and via track
330° to POPES
and hold.

CLNC DEL
127.85

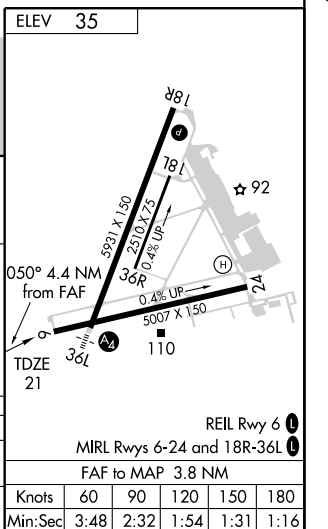
Circling NA northeast of Rwy 18R and 24.

MISSED APPROACH: Climbing left turn to 3000 direct SGD VORTAC and hold.

ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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CATEGORY	A	B	C	D
S-6	440-1 419 (500-1)	440-1 419 (500-1)	440-1 419 (500-1)	440-1 419 (500-1)
CIRCLING	600-1 565 (600-1)	620-1 585 (600-1)	720-2 685 (700-2)	1240-3 1205 (1300-3)



SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5005
270°	TDZE	956
	Apt Elev	983

RNAV (GPS) RWY 29

NEEDLES (EED)



Straight-in minimums not authorized at night.



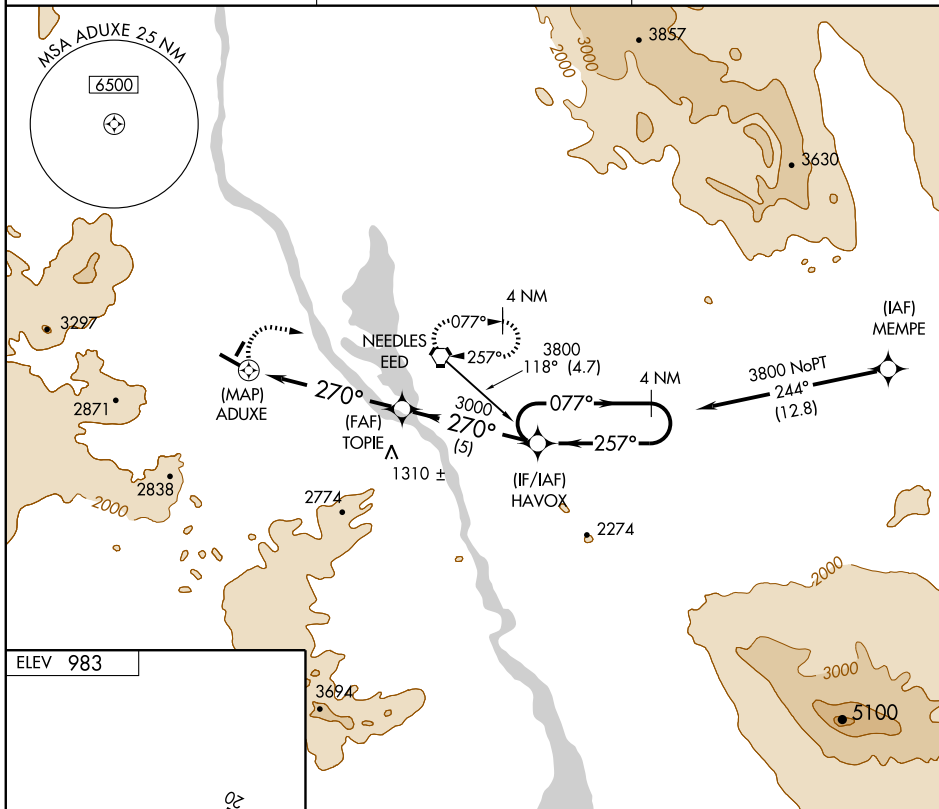
NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 6000 direct to EED VORTAC and hold.

ASOS
128.325

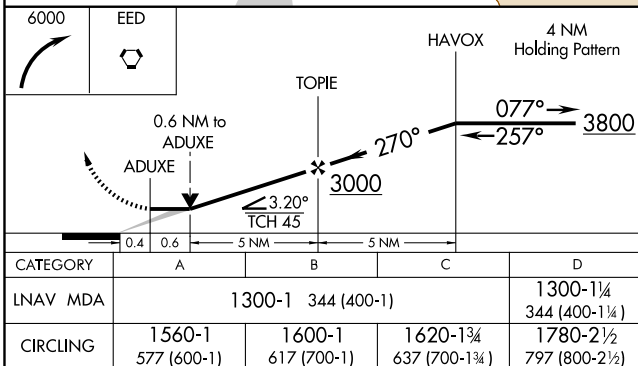
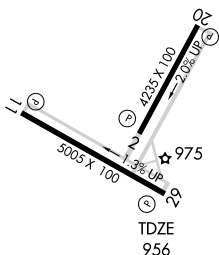
LOS ANGELES CENTER
134.65 360.65

UNICOM
123.0 (CTAF) **L**



SW-3. 14 JAN 2010 to 11 FEB 2010

ELEV	983
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MIRL Rwy's 2-20 and 11-29 **L**REIL Rwys 11 and 29 **L**

VORTAC EED 115.2 Chan 99	APP CRS 255°	Rwy Idg TDZE Apt Elev	N/A N/A 983
--	------------------------	-----------------------------	--

VOR-A
NEEDLES (EED)

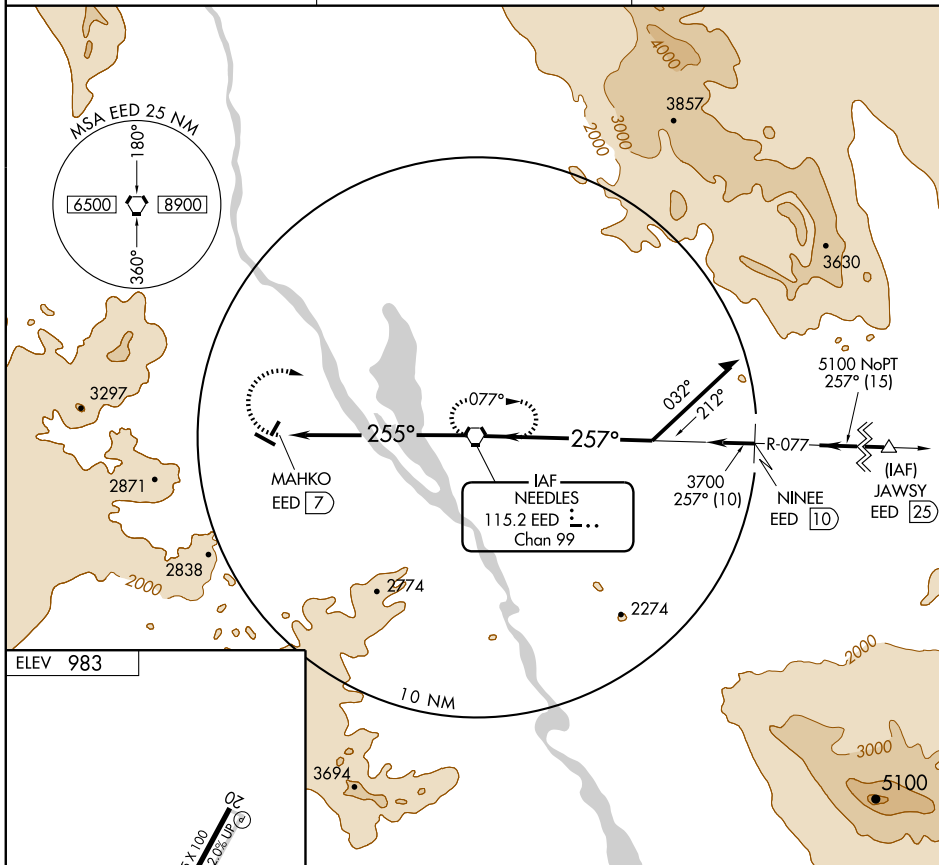


MISSED APPROACH: Climbing right turn to 6000 direct EED VORTAC and hold.

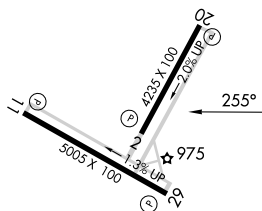
ASOS
128.325

LOS ANGELES CENTER
134.65 360.65

UNICOM
123.0 (CTAF) **L**



ELEV 983



MIRL Rwys 2-20 and 11-29 **L**
REIL Rwys 11 and 29 **L**

FAF to MAP 7 NM					
Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20

CATEGORY	A	B	C	D
CIRCLING	1560-1 577 (600-1)	1600-1 617 (700-1)	1620-1 $\frac{3}{4}$ 637 (700- $\frac{3}{4}$)	1780-2 $\frac{1}{2}$ 797 (800-2 $\frac{1}{2}$)

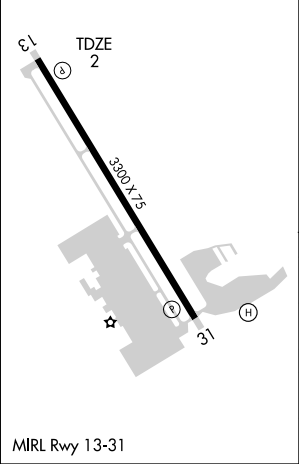
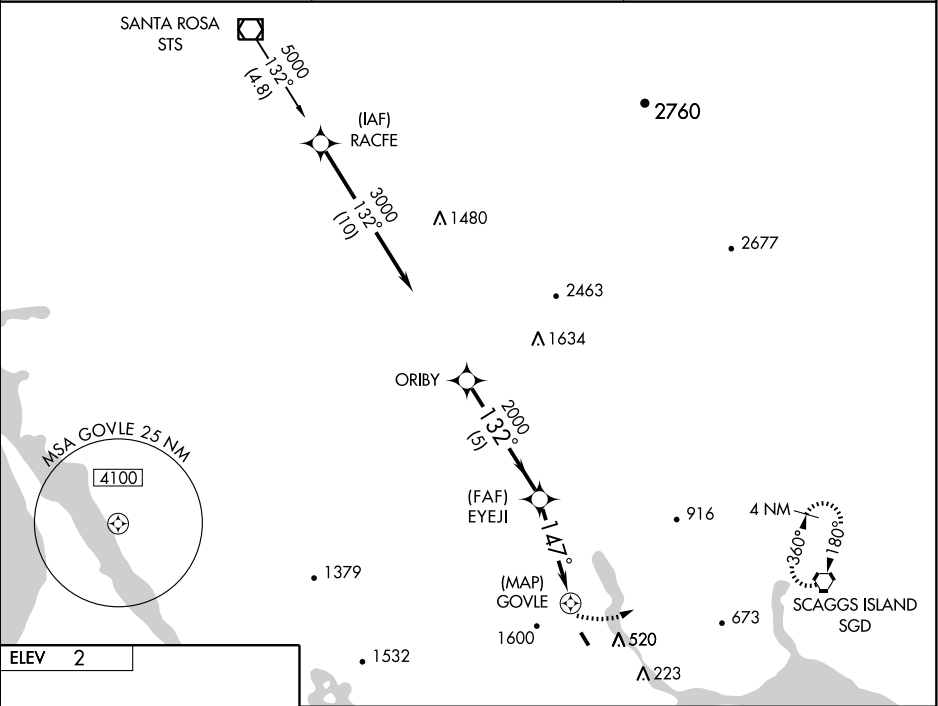
NA

NA

Circling NA west of Rwy 13-31. When local altimeter not received, use NAPA altimeter setting and increase all MDAs 40 feet. If neither is received procedure is NA.

MISSED APPROACH: Climbing left turn to 3000 direct SGD VORTAC and hold.

AWOS 120.675	OAKLAND CENTER 127.8 353.5	UNICOM 123.075 (CTAF)
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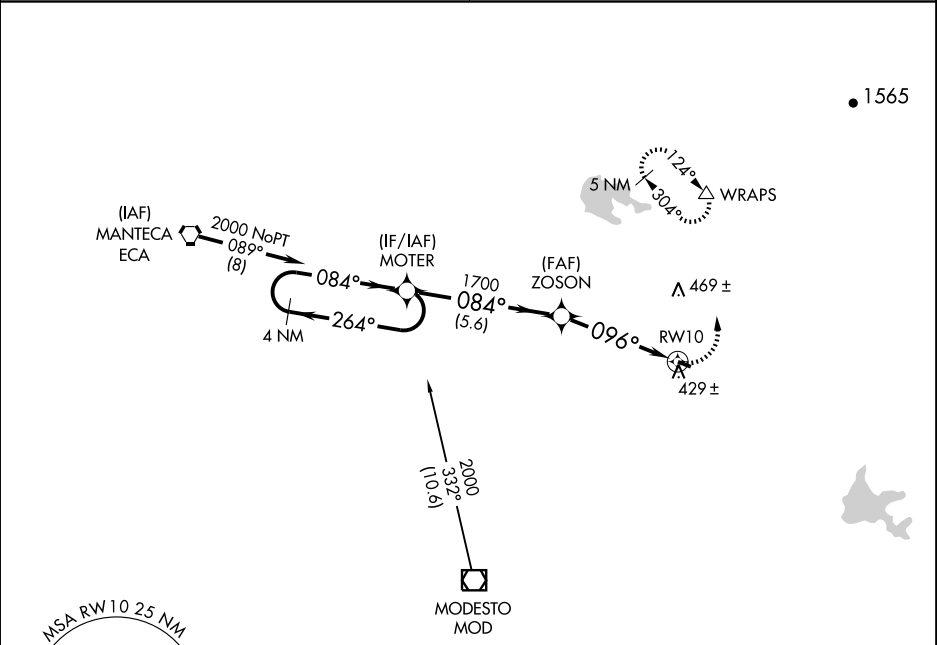
ORIBY		EYEJI		GOVLE	
3000		2000		3000	
Procedure Turn NA				SGD	
5 NM		3.9 NM		1.1 NM	
CATEGORY	A	B	C	D	
S-13	1000-1¼ 998 (1000-1¼)	1000-1½ 998 (1000-1½)	NA		
CIRCLING	1000-1¼ 998 (1000-1¼)	1000-1½ 998 (1000-1½)	NA		
NAPA ALTIMETER SETTING MINIMUMS					
S-13	1040-1¼ 1038 (1100-1¼)	1040-1½ 1038 (1100-1½)	NA		
CIRCLING	1040-1¼ 1038 (1100-1¼)	1040-1½ 1038 (1100-1½)	NA		

APP CRS	Rwy Idg	3013
096°	TDZE	237
	Apt Elev	237

RNAV (GPS) RWY 10
OAKDALE (O27)

NA	DME/DME RNP-0.3 NA. Use Stockton altimeter setting, when not received, procedure NA. Circling to Rwy 28 NA at night.	MISSED APPROACH: Climbing left turn to 3000 direct WRAPS and hold.
-------------------------------------	--	--

NORCAL APP CON 125.1 363.2	UNICOM 122.8 (CTAF) 0
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4 NM Holding Pattern

MOTER

ZOSON

RWY 10

2000

264°

084°

084°

1700

096°

3000

WRAPS

TDZE 237

096° to RWY 10

0.4% UP

3013 X 75

28

5.6 NM

4.5 NM

3.04°

TCH 40

VGSI and descent angles not coincident

CATEGORY	A	B	C	D
LNAV MDA	760-1	523 (600-1)	NA	
CIRCLING	860-1	623 (700-1)	NA	

MIRL Rwy 10-28 0

APP CRS	Rwy Idg	3013
276°	TDZE	237
	Apt Elev	237

RNAV (GPS) RWY 28

OAKDALE (027)



DME/DME RNP-0.3 NA.



NA

Use Stockton altimeter setting, when not received, procedure NA.
Straight-In/Circling to Rwy 28 NA at night.

MISSED APPROACH: Climb to 3000 direct ZOSON and via 267° track to ECA VORTAC and hold.

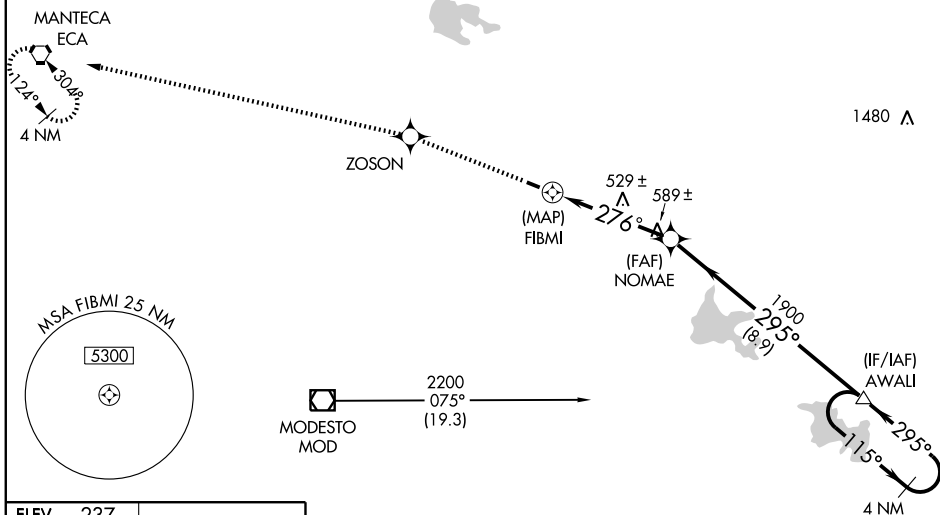
NORCAL APP CON

125.1 363.2

UN|COM

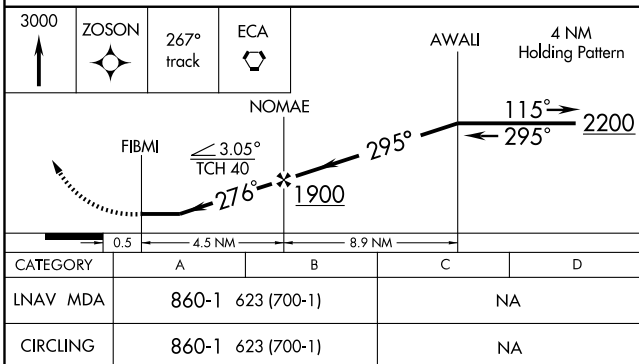
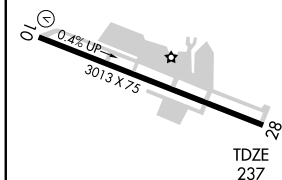
122.8 (CTAF)

NoPT for arrival at AWALL on V23 northwest bound.



SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV	237
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MIRL Rwy 10-28 L

VOR/DME MOD 114.6 Chan 93	APP CRS 027°	Rwy Idg TDZE Apt Elev N/A N/A 237
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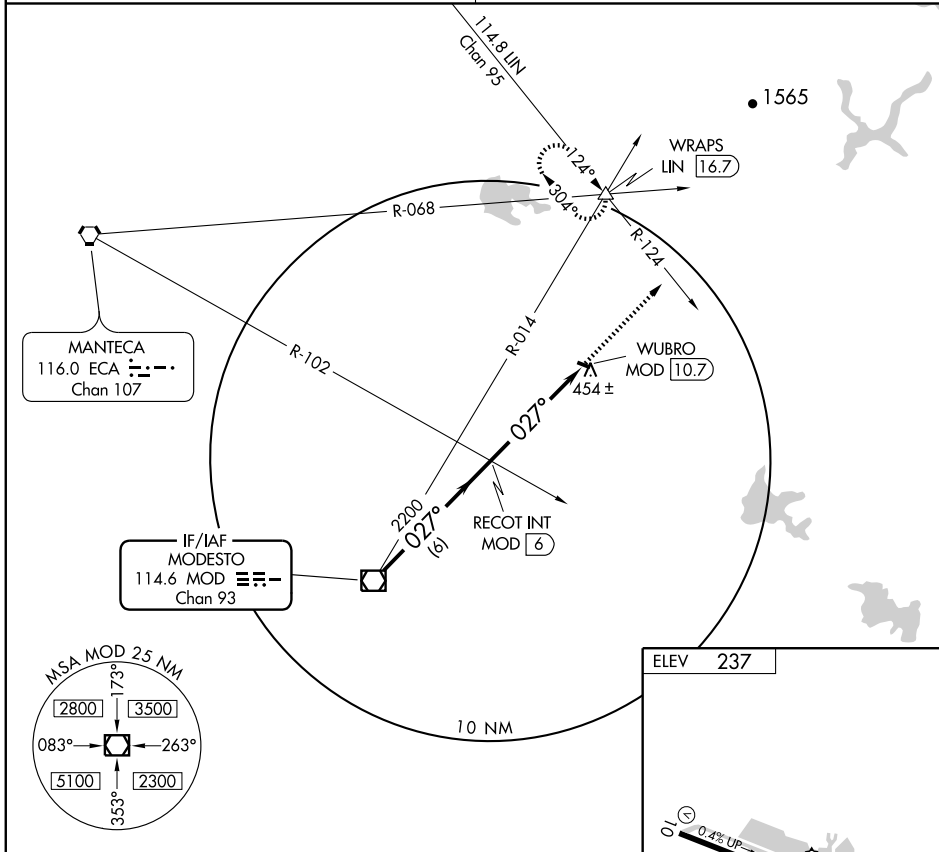
VOR-A

OAKDALE (027)

NA Use Stockton altimeter setting, when not received, procedure NA. Circling to Rwy 28 NA at night.

MISSED APPROACH: Climb to 3000 via heading 027° and LIN R-124 to WRAPS Int/LIN 16.7 DME and hold, continue climb-in-hold to 3000.

NORCAL APP CON 125.1 363.2	UNICOM 122.8 (CTAF)
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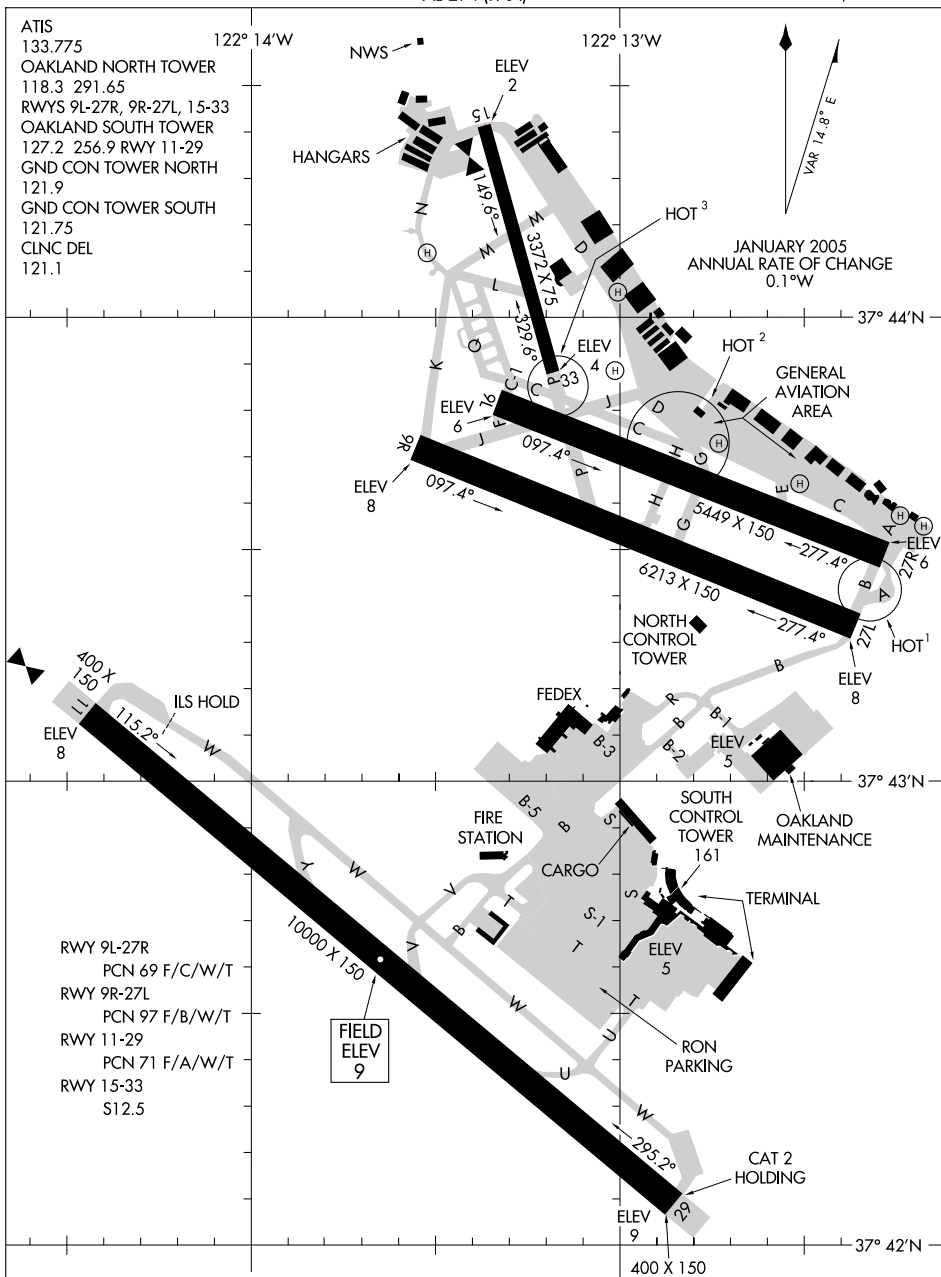
VOR/DME		RECOT INT MOD 6		WUBRO MOD 10.7		WRAPS LIN 16.7	
3000		2200		2200		2200	
027°		027°		027°		027°	
6 NM		4.7 NM		4.7 NM		4.7 NM	
CATEGORY		A		B		C	
CIRCLING		860-1		623 (700-1)		NA	
Knots		60		90		120	
Min:Sec		4:42		3:08		2:21	
		1:53		1:34			

AIRPORT DIAGRAM

AL-294 (FAA)

OAKLAND, CALIFORNIA

ATIS		12
133.775		
OAKLAND NORTH TOWER		
118.3 291.65		
RWYS 9L-27R, 9R-27L, 15-33		
OAKLAND SOUTH TOWER		
127.2 256.9 RWY 11-29		
GND CON TOWER NORTH		
121.9		
GND CON TOWER SOUTH		
121.75		
CLNC DEL		
121.1		



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-2. 14 JAN 2010 to 11 FEB 2010

COAST FIVE DEPARTURE

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA)

OAKLAND, CALIFORNIA

ATIS 133.775

CLNC DEL

121.1

GND CON

NORTH 121.9

SOUTH 121.75

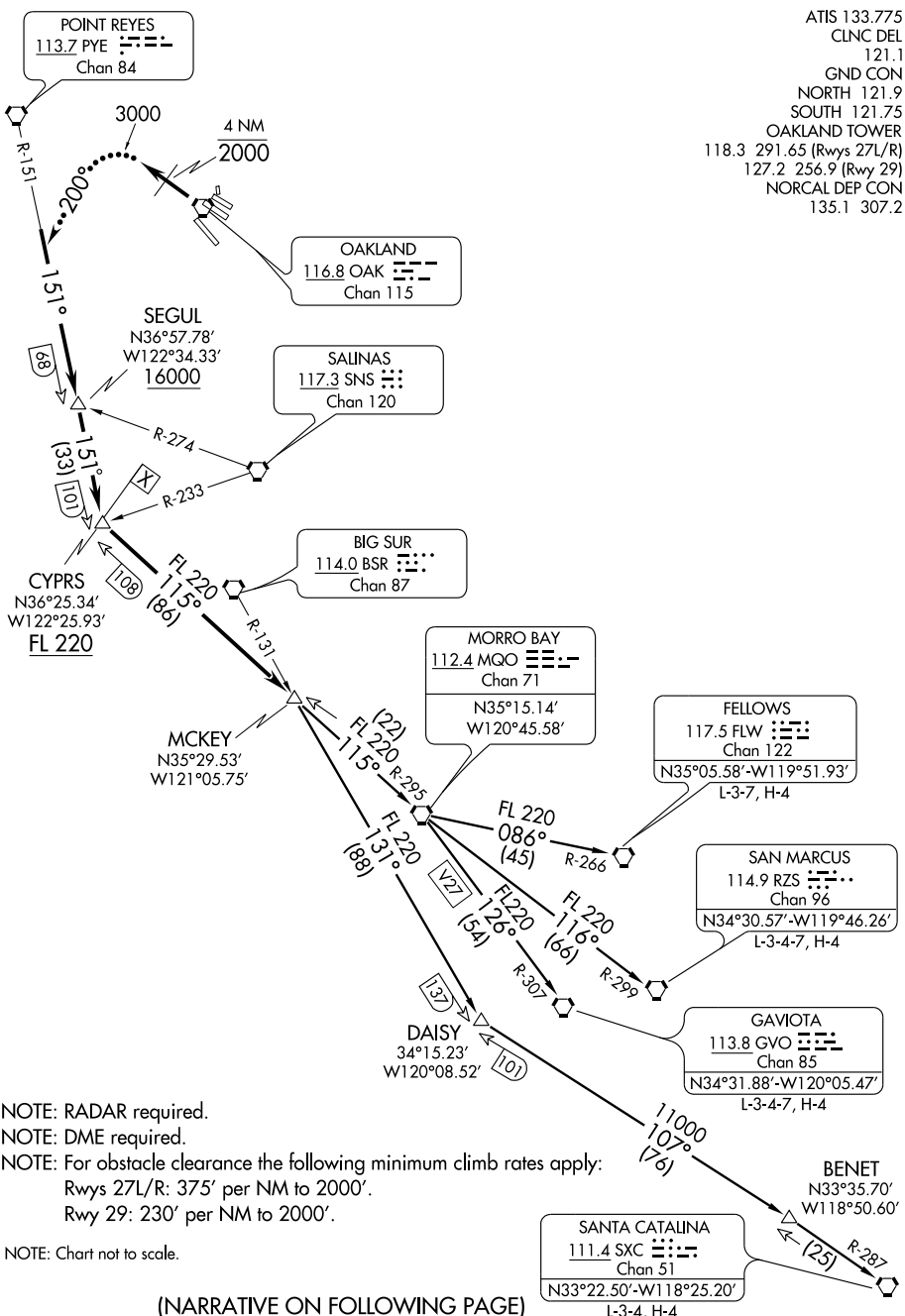
OAKLAND TOWER

118.3 291.65 (Rwys 27L/R)

127.2 256.9 (Rwy 29)

NORCAL DEP CON

135.1 307.2



(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 27L/R and 29: Maintain runway heading for vectors to PYE R-151. Cross 4 miles northwest of OAK VORTAC at or below 2000'. Intercept and proceed via the PYE R-151 to SEGUL INT. Cross SEGUL INT at or above 16000'. Proceed via the PYE R-151 to CYPRS INT; cross CYPRS INT at or above FL 220. Then via the MQO R-295 to MCKEY INT, then via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: TAKE-OFF RUNWAYS 27L/R AND 29: After reaching 3000', turn left heading 200°, intercept and proceed via PYE R-151, then resume own navigation.

FELLOWS TRANSITION (COAST5.FLW): From over MCKEY INT via MQO R-295 to MQO VORTAC; then via MQO R-086 and FLW R-266 to FLW VORTAC.

GAVIOTA TRANSITION (COAST5.GVO): from over MCKEY INT via MQO R-295 to MQO VORTAC; then via MQO R-126 and GVO R-307 to GVO VORTAC.

SAN MARCUS TRANSITION (COAST5.RZS): From over MCKEY INT via MQO R-295 to MQO VORTAC; then via MQO R-116 and RZS R-299 to RZS VORTAC.

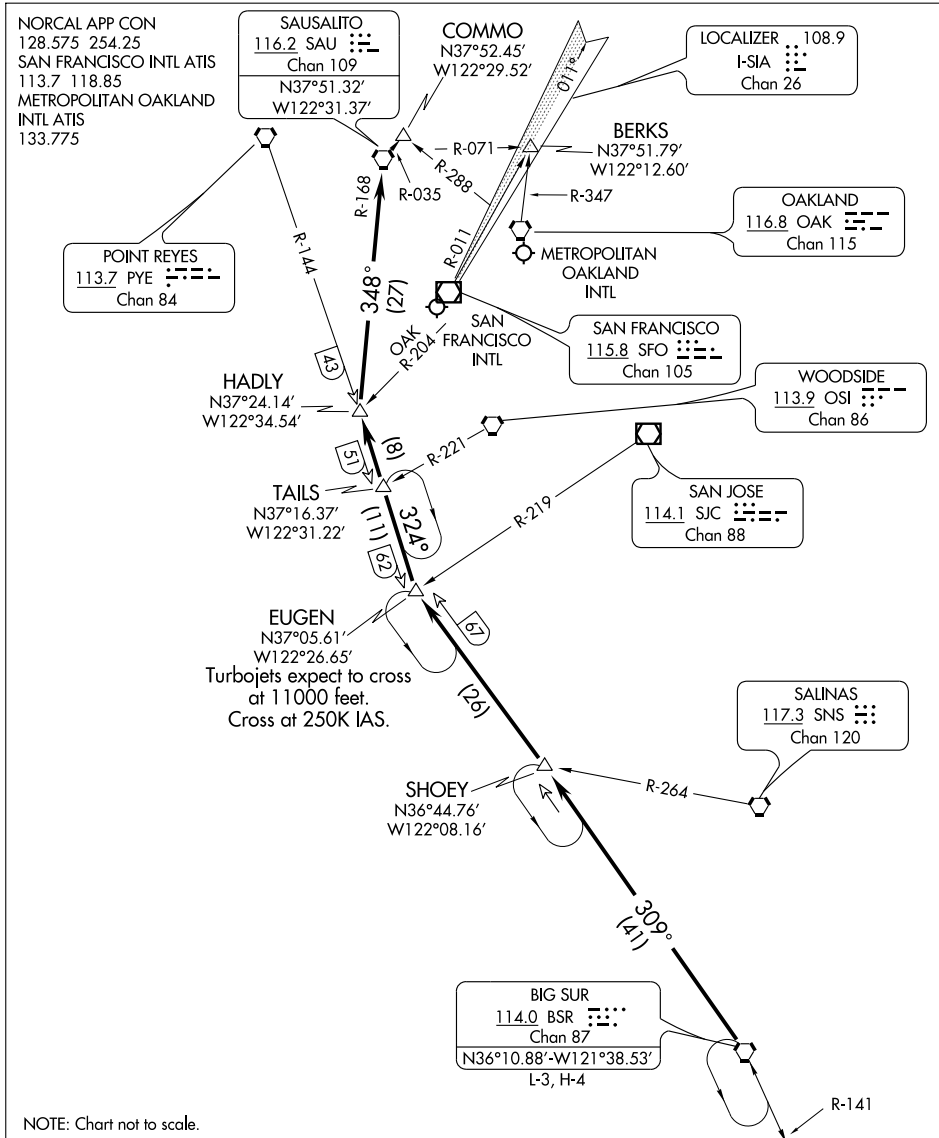
SANTA CATALINA TRANSITION (COAST5.SXC): From over MCKEY INT via BSR R-131 and SXC R-287 to SXC VORTAC.



HADLY TWO ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



From over BSR VORTAC via BSR R-309 to EUGEN INT, then via PYE R-144 to HADLY INT, then via direct SAU VORTAC. Expect vectors to final approach course. Expect clearance to cross EUGEN INT at 11000' and at 250K IAS.

LOST COMMUNICATIONS

San Francisco Intl: Depart SAU VORTAC via SAU R-071 to BERKS INT.

Metropolitan Oakland Intl: Depart SAU VORTAC via SAU R-035 to COMMO INT.

LOC I-AAZ <u>111.9</u>	APP CRS 114°	Rwy Idg 10000 TDZE 9 Apt Elev 9
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ILS or LOC RWY 11

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

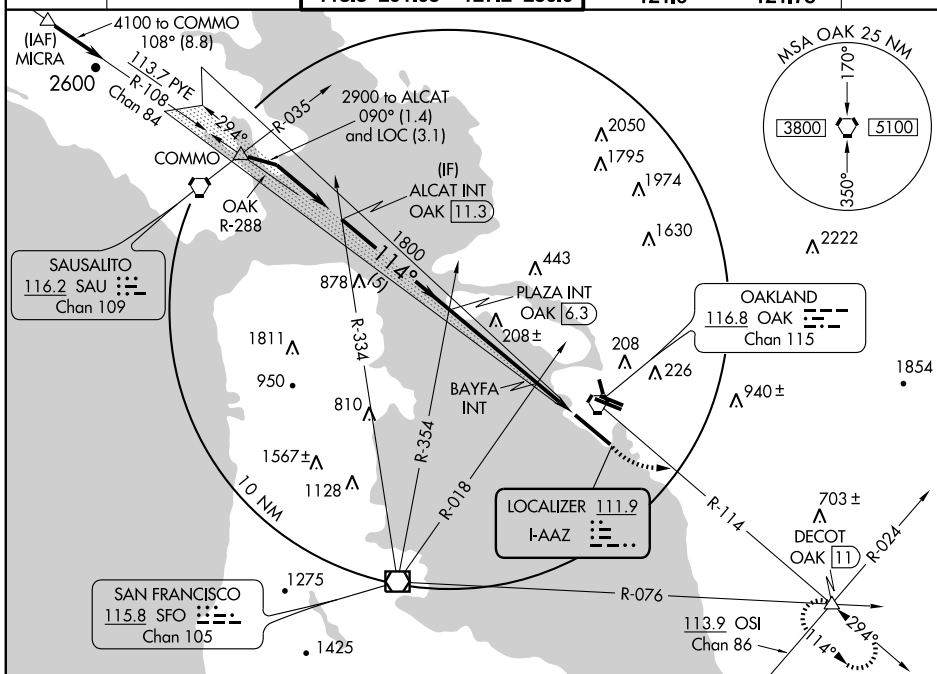


MALS

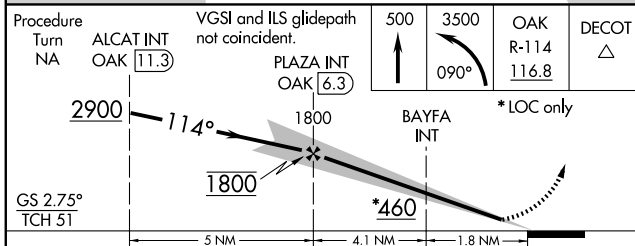


MISSED APPROACH: Climb to 500 then climbing left turn to 3500 via heading 090° and OAK VORTAC R-114 to DECOT INT/OAK 11 DME and hold.

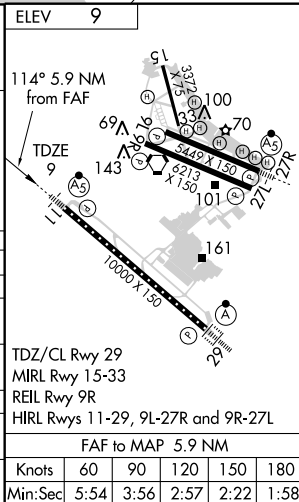
ATIS	NORCAL APP CON				OAKLAND TOWER				GND CON				CLNC DEL
133.775	125.35	310.8	354.1		(Rwys 9-27, 15-33)		(Rwy 11-29)		(Rwys 9-27, 15-33)		(Rwy 11-29)		121.1
					118.3	291.65	127.2	256.9	121.9		121.75		



SW-2. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
S-ILS 11	209/24 200 (200-½)			
S-LOC 11	460/24 451 (500-½)	460/40 451 (500-¾)	460/50 451 (500-1)	
CIRCLING	520-1 511 (600-1)	540-1 531 (600-1)	540-1½ 531 (600-1½)	560-2 551 (600-2)
BAYFA FIX MINIMUMS				
S-LOC 11	360/24 351 (400-½)			360/40 351 (400-¾)
CIRCLING	520-1 511 (600-1)	540-1 531 (600-1)	540-1½ 531 (600-1½)	560-2 551 (600-2)



ILS or LOC RWY 29

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

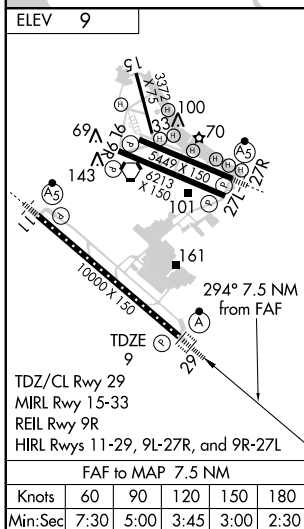
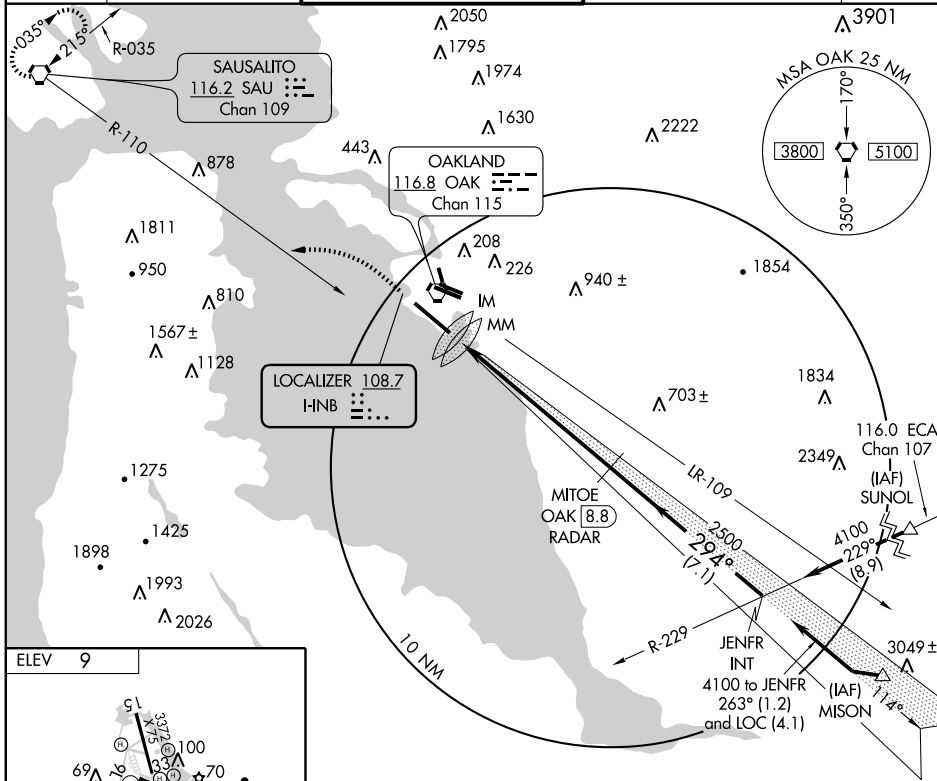
LOC I-INB	APP CRS	Rwy Idg	10000
108.7	294°	TDZE	9
		Apt Elev	9

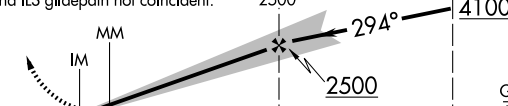
*DME or RADAR required for S-LOC 29.



MISSED APPROACH: Climb to 600 then climbing left turn to 4000 via heading 260° and SAU R-110 to SAU VORTAC and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29)	GND CON (Rwys 9-27, 15-33) (Rwy 11-29)	CLNC DEL
133.775	125.35 310.8 354.1	118.3 291.65 127.2 256.9	121.9 121.75	121.1



600 ↑	4000 hdg 260°	SAU R-110 116.2	SAU  116.2	MITOE OAK [8.8] RADAR	JENFR INT	Procedure Turn NA
VGS1 and ILS glidepath not coincident.						
						
CATEGORY	A		B	C	D	
S-ILS 29	209/18 200 (200-½)					
S-LOC 29 *	560/24	551 (600-½)		560/50 551 (600-1)	560/60 551 (600-1¼)	
CIRCLING	560-1	551 (600-1)		560-1½ 551 (600-1½)	560-2 551 (600-2)	

LOC I-INB	APP CRS	Rwy Idg	10000
108.7	294°	TDZE	9
		Apt Elev	9

ILS RWY 29 (CAT II)

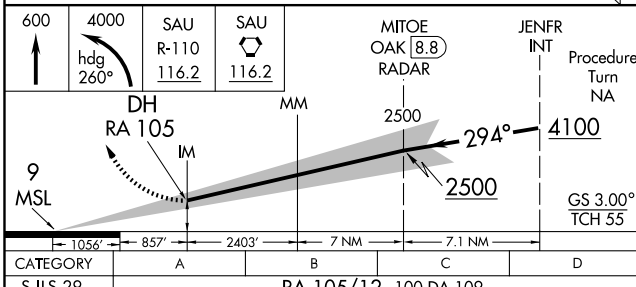
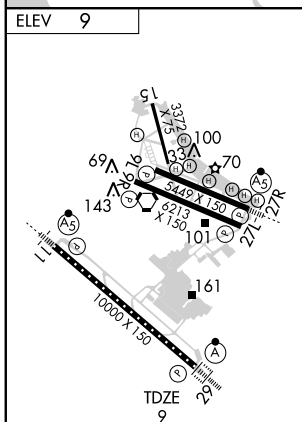
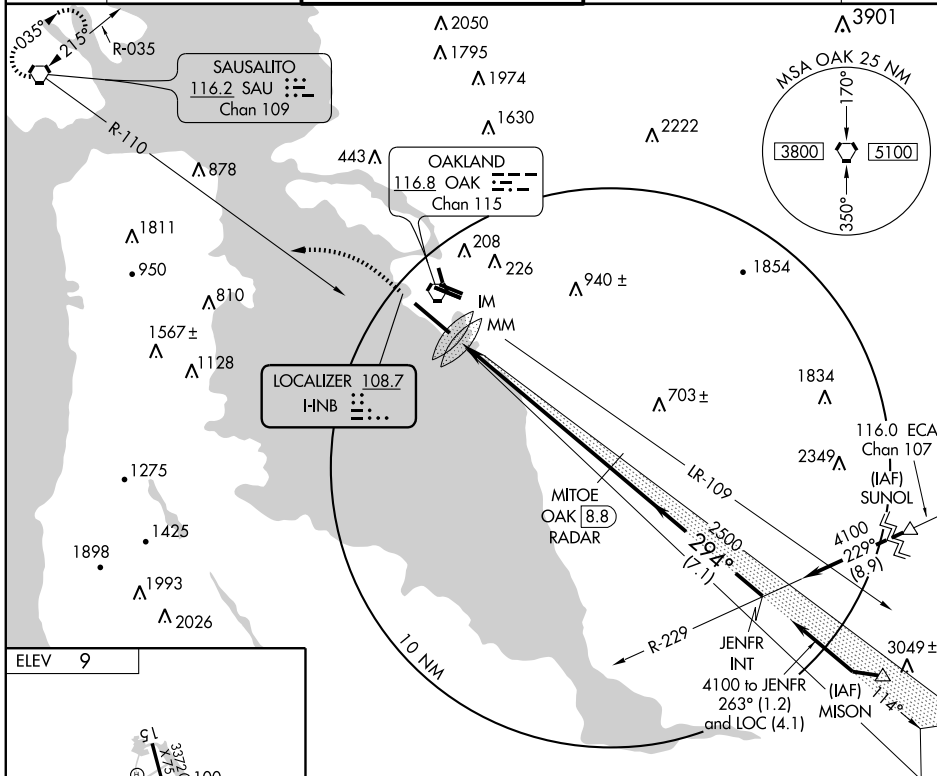
OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

Obstructions in the missed approach area require a rate of climb of at least 300 FPM/100K, 450 FPM/150K, 600 FPM/200K to 600 feet, no wind conditions.

ALSF-2

MISSED APPROACH: Climb to 600 then climbing left turn to 4000 via heading 260° and SAU R-110 to SAU VORTAC and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER (Rwys 9-27, 15-33)	(Rwy 11-29)	GND CON (Rwys 9-27, 15-33)	(Rwy 11-29)	CLNC DEL
133.775	125.35 310.8 354.1	118.3 291.65 127.2 256.9		121.9 121.75		121.1



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ILS RWY 29 (CAT III)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

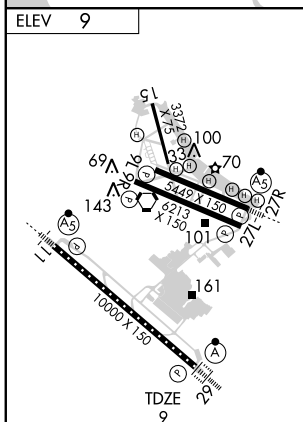
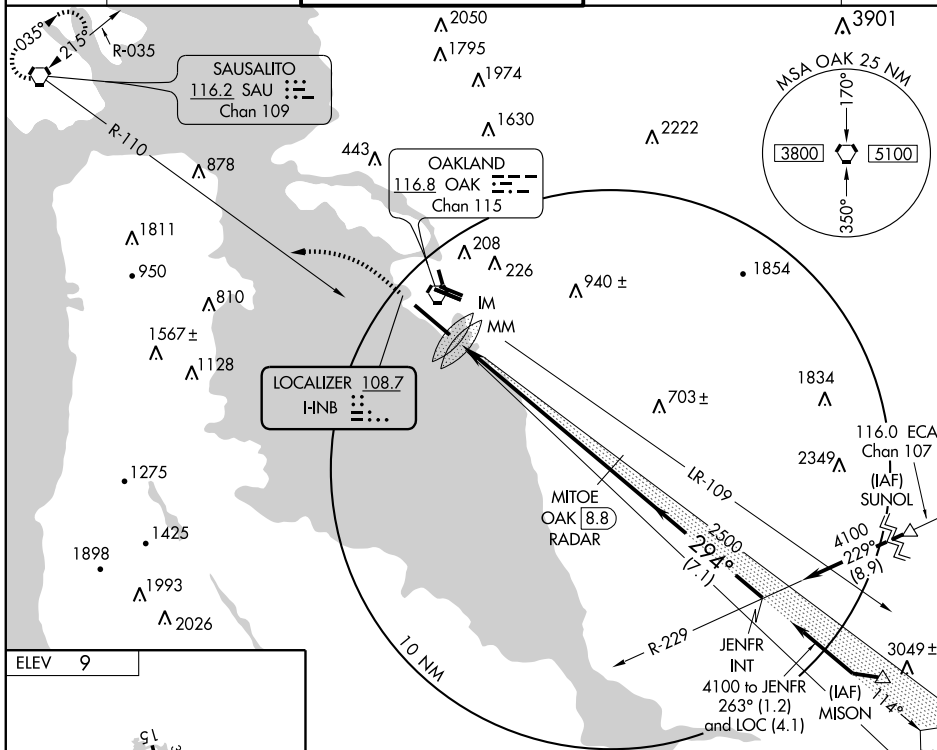
LOC I-INB	APP CRS	Rwy Idg	10000
108.7	294°	TDZE	9
		Apt Elev	9

Obstructions in the missed approach area require a rate of climb of at least 300 FPM/100K, 450 FPM/150K, 600 FPM/200K to 600 feet, no wind conditions.

ALSF-2


MISSED APPROACH: Climb to 600 then climbing left turn to 4000 via heading 260° and SAU R-110 to SAU VORTAC and hold.

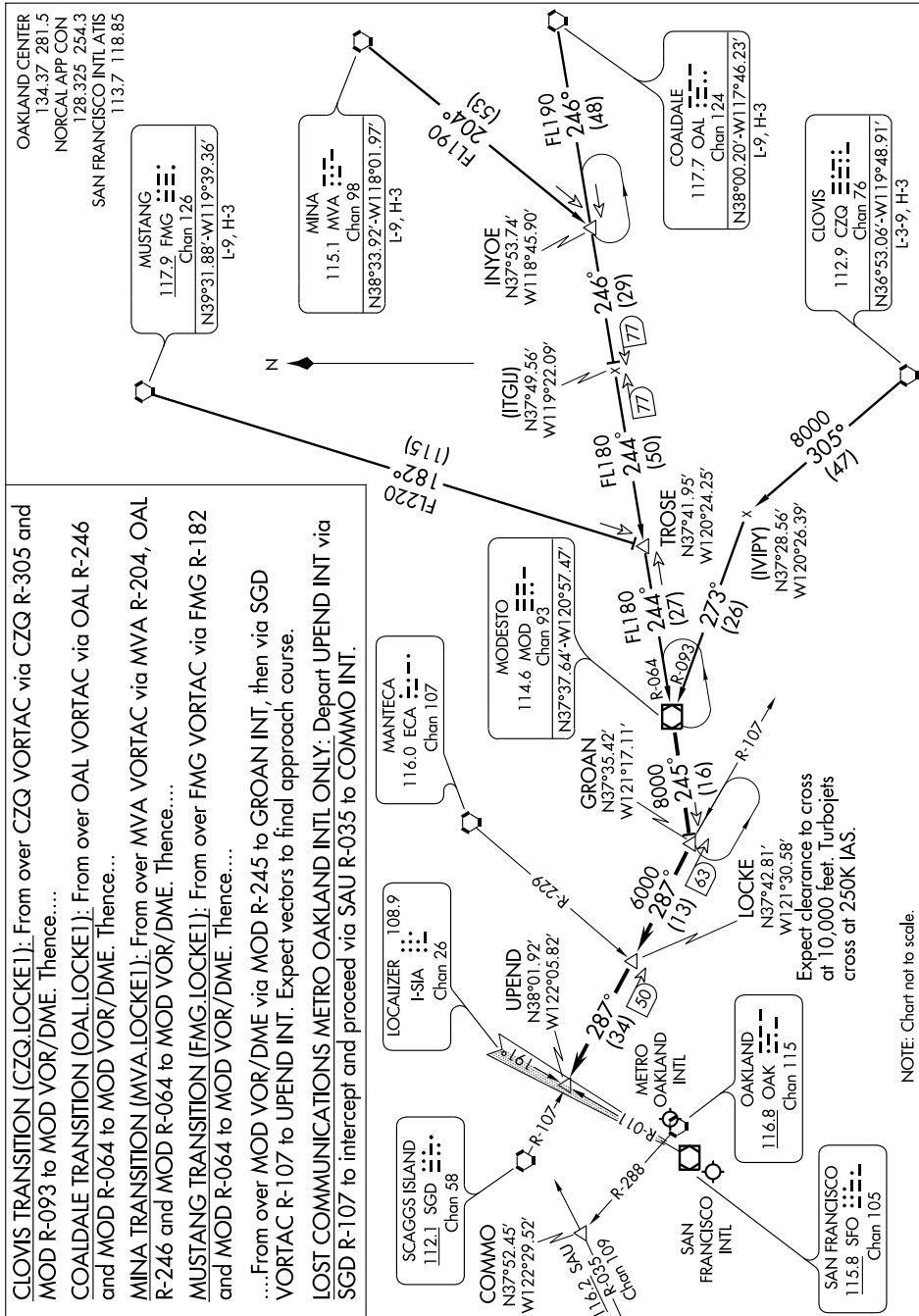
ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) 118.3 291.65 (Rwy 11-29) 127.2 256.9	GND CON (Rwys 9-27, 15-33) 121.9 (Rwy 11-29) 121.75	CLNC DEL 121.1
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600	4000	SAU R-110	SAU	MITOE OAK RADAR	JENFR INT
↑	hdg 260°	116.2	116.2	8.8	Procedure Turn NA
9 MSL	IM 100	MM 233	2500	294°	4100
1056'	857'	2403'	7 NM	7.1 NM	GS 3.00° TCH 55
CATEGORY	A	B	C	D	
S-ILS 29		CAT IIIa	RVR 07		
S-ILS 29		CAT IIIb	RVR 06		
S-ILS 29		CAT IIIc	NA		

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

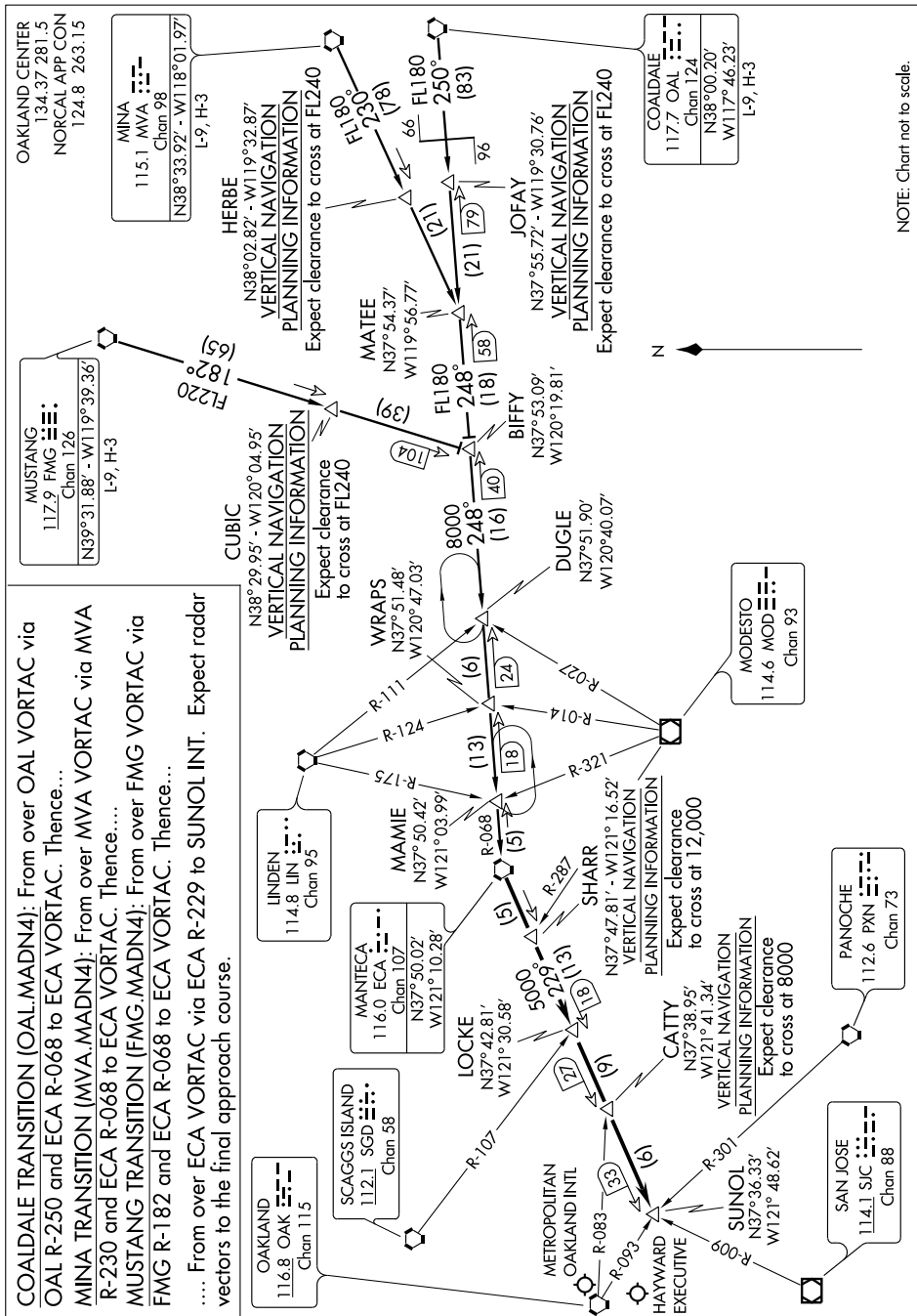
TDZ/CL Rwy 29
 MIRL Rwy 15-33
 REIL Rwy 9R
 HIRL Rwys 11-29, 9L-27R, and 9R-27L



MADWIN FOUR ARRIVAL

ST-294 (FAA)

OAKLAND, CALIFORNIA



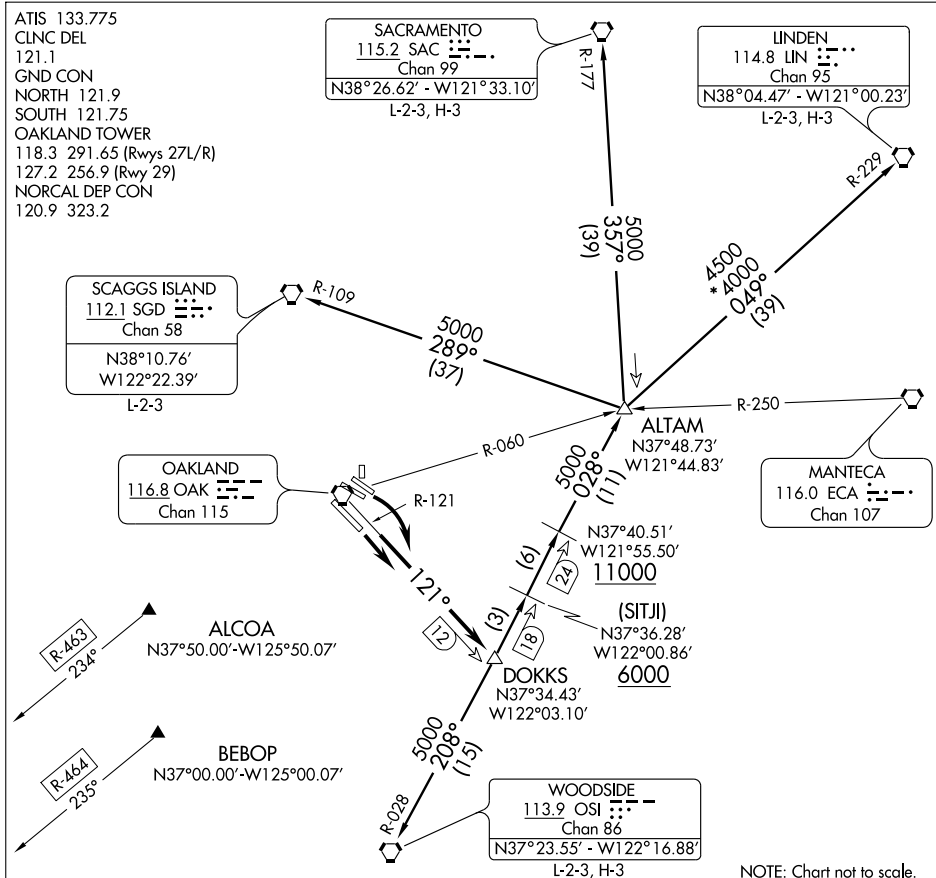
NOTE: Chart not to scale.

SW-2. 14 JAN 2010 to 11 FEB 2010



NOTE: Chart not to scale.

MARINA FOUR DEPARTURE

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA

SW-2, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R: Turn right and climb via OAK-121 to DOKKS INT. Thence via (transition) or (assigned route/fix). Expect clearance to filed altitude ten minutes after departure.

TAKE-OFF RUNWAY 11: Maintain runway heading to intercept and proceed via the OAK R-121 to DOKKS INT. Thence via (transition) or (assigned route/fix). Expect clearance to filed altitude ten minutes after departure.

LINDEN TRANSITION (MARI4.LIN): From over DOKKS INT via OSI R-028 and LIN R-229 to LIN VORTAC. Cross OSI R-028 18 DME at or above 6000', OSI R-028 24 DME at or above 11000'.

SACRAMENTO TRANSITION (MARI4.SAC): From over DOKKS INT via OSI R-028 and SAC R-177 to SAC VORTAC. Cross OSI R-028 18 DME at or above 6000' and OSI R-028 24 DME at or above 11000'.

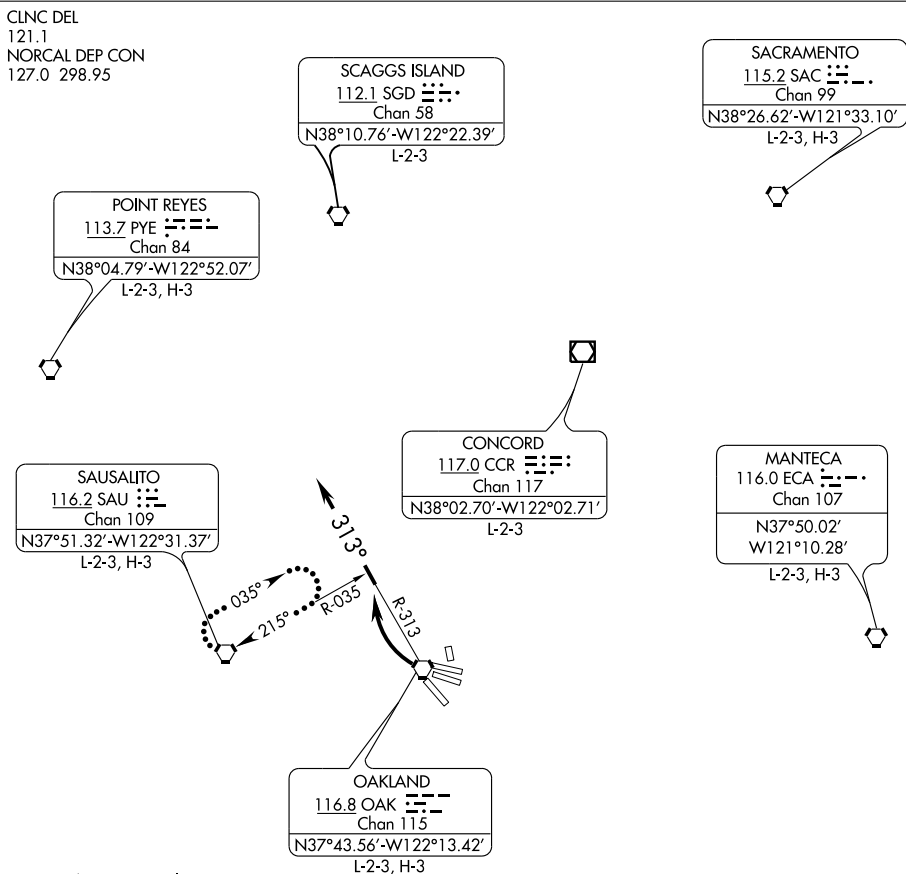
SCAGGS ISLAND TRANSITION (MARI4.SGD): From over DOKKS INT via OSI R-028 and SGD R-109 to SGD VORTAC. Cross OSI R-028 18 DME at or above 6000' and OSI R-028 24 DME at or above 11000'.

WOODSIDE TRANSITION (MARI4.OSI): From over DOKKS INT via OSI R-028 to OSI VORTAC.



NIMITZ TWO DEPARTURE

SL-294 (FAA)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
OAKLAND, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

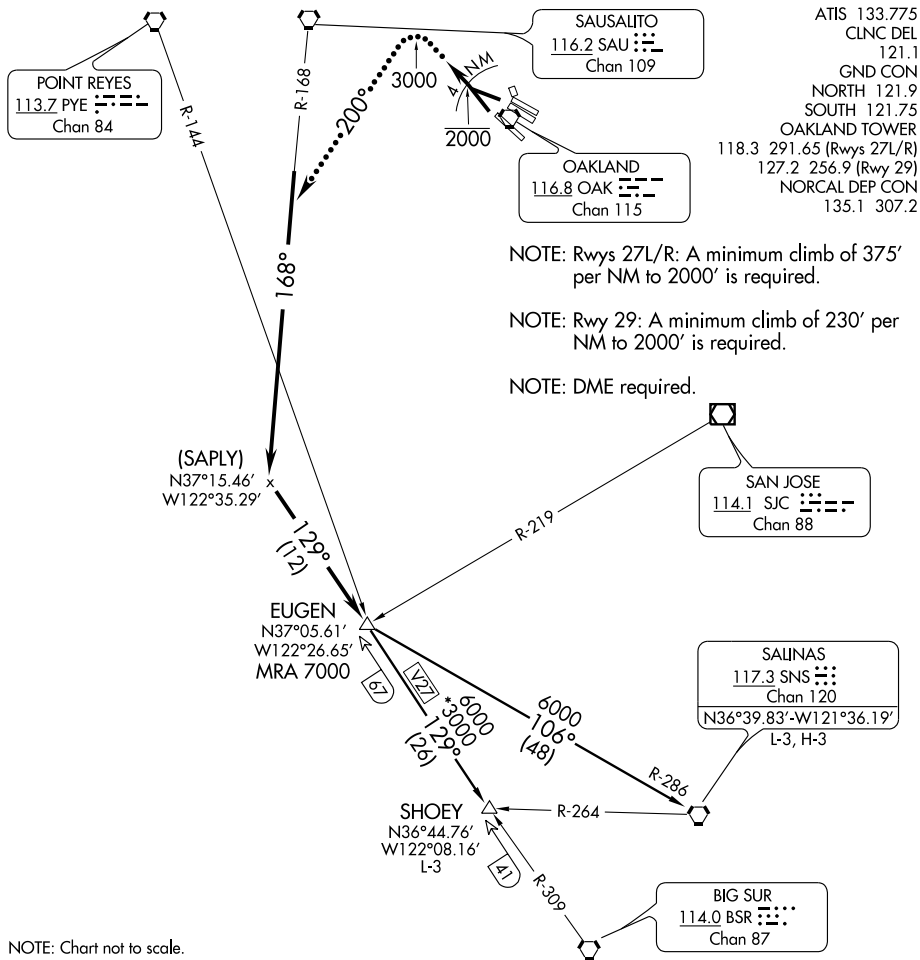
TAKE-OFF RUNWAYS 27L/R and 29: Turn right, intercept and proceed via OAK R-313 for vectors to assigned fix/route. Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure after reaching 3000', proceed direct to SAU VORTAC and hold on SAU R-035. Climb in holding pattern to assigned altitude, then proceed to assigned fix/route.

NUEVO FIVE DEPARTURE

SL-294 (FAA)

OAKLAND, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 27L/R and 29: Maintain runway heading for vector to the SAU R-168. Cross 4 miles northwest of OAK VORTAC at or below 2000'. Then via the SAU R-168 and the BSR R-309 to EUGEN INT. Then via (transition) or (assigned route). Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: Take-off runways 27L/R and 29: After reaching 3000', turn left heading 200°, intercept the SAU R-168, resume own navigation.

SALINAS TRANSITION (NUEVO5.SNS): From over EUGEN INT via the SNS R-286 to SNS VORTAC.

SHOEY TRANSITION (NUEVO5.SHOEY): From over EUGEN INT via the BSR R-309 to SHOEY INT.

OAKLAND FIVE DEPARTURE

SL-294 (FAA)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
OAKLAND, CALIFORNIA

ATIS
133.775
CLNC DEL
121.1
NORCAL DEP CON
120.9 323.2

MENDOCINO
112.3 ENI
Chan 70
N39°03.19'-W123°16.45'
L-2, H-3

WILLIAMS
114.4 ILA
Chan 91
N39°04.27'-W122°01.64'
L-2-3

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

SCAGGS ISLAND
112.1 SGD
Chan 58
N38°10.76'-W122°22.39'
L-2-3

SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

POINT REYES
113.7 PYE
Chan 84
N38°04.79'-W122°52.07'
L-2-3, H-3

CONCORD
117.0 CCR
Chan 117
N38°02.70'
W122°02.71'
L-2-3

SAUSALITO
116.2 SAU
Chan 109
N37°51.32'-W122°31.37'
L-2-3, H-3

LINDEN
114.8 LIN
Chan 95
N38°04.48'-W121°00.23'
L-2-3, H-3

MANTECA
116.0 ECA
Chan 107
N37°50.02'
W121°10.28'
L-2-3, H-3

WOODSIDE
113.9 OSI
Chan 86
N37°23.55'-W122°16.88'
L-2-3, H-3

HADLY
N37° 24.16'
W122°34.54'
L-2-3

OAKLAND
116.8 OAK
Chan 115
N37°43.56'-W122°13.42'
L-2-3, H-3

BEBOP
N37°00.00'
W125°00.07'

ALCOA
N37°50.00'
W125°50.07'

R-463
234°

R-464
235°

NOTE: Chart not to scale.

NOTE: DME required.

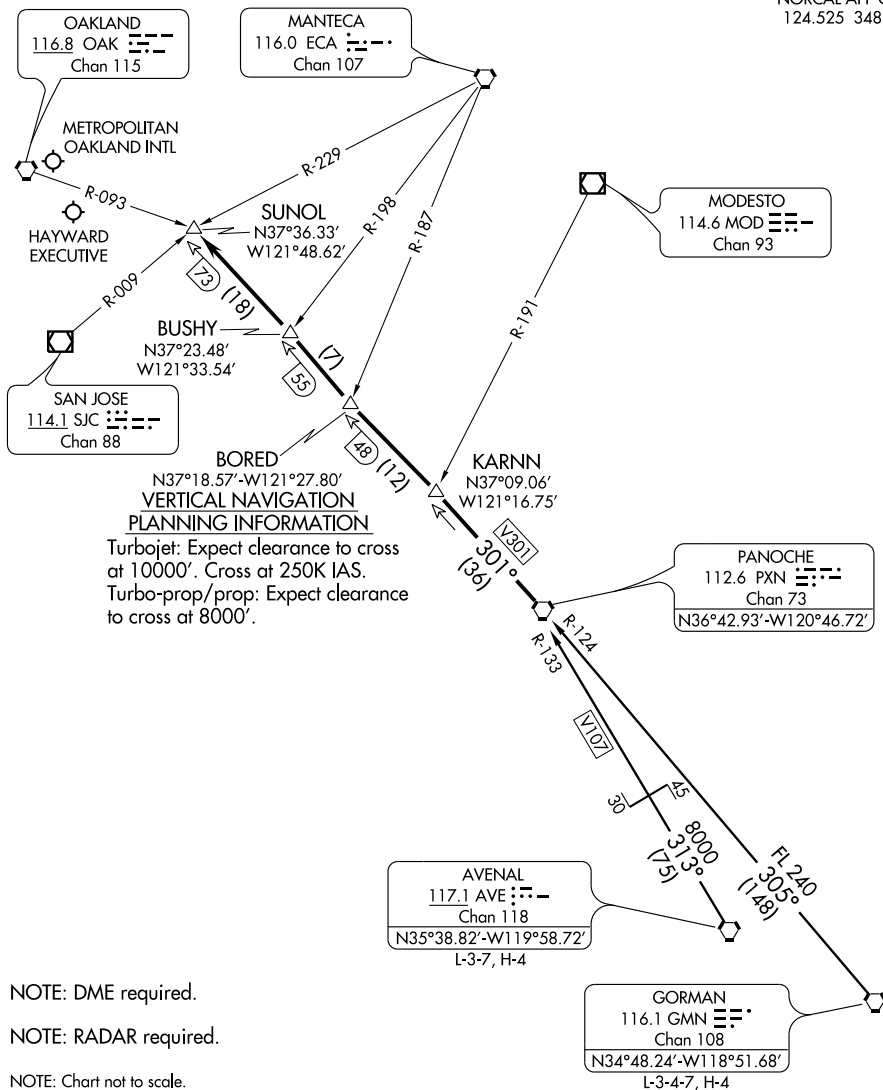
NOTE: Rwy 27L/R: a minimum climb of 375' per NM to 2000' is required.
Rwy 29: a minimum climb of 230' per NM to 2000' is required.

NOTE: Use the SILENT DEPARTURE during the time periods of 2200-0700 local in lieu of the OAKLAND DEPARTURE.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 27L/R and 29: Climb via runway heading or as assigned for vector to assigned route/fix. Cross 4 miles northwest of OAK VORTAC at or below 2000', maintain assigned altitude. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control after reaching 3000', continue climb to assigned altitude and proceed direct to assigned route/fix.

NORCAL APP CON
124.525 348.675

AVENAL TRANSITION (AVE.PXN2): From over AVE VORTAC via AVE R-313 and PXN R-133 to PXN VORTAC. Thence....

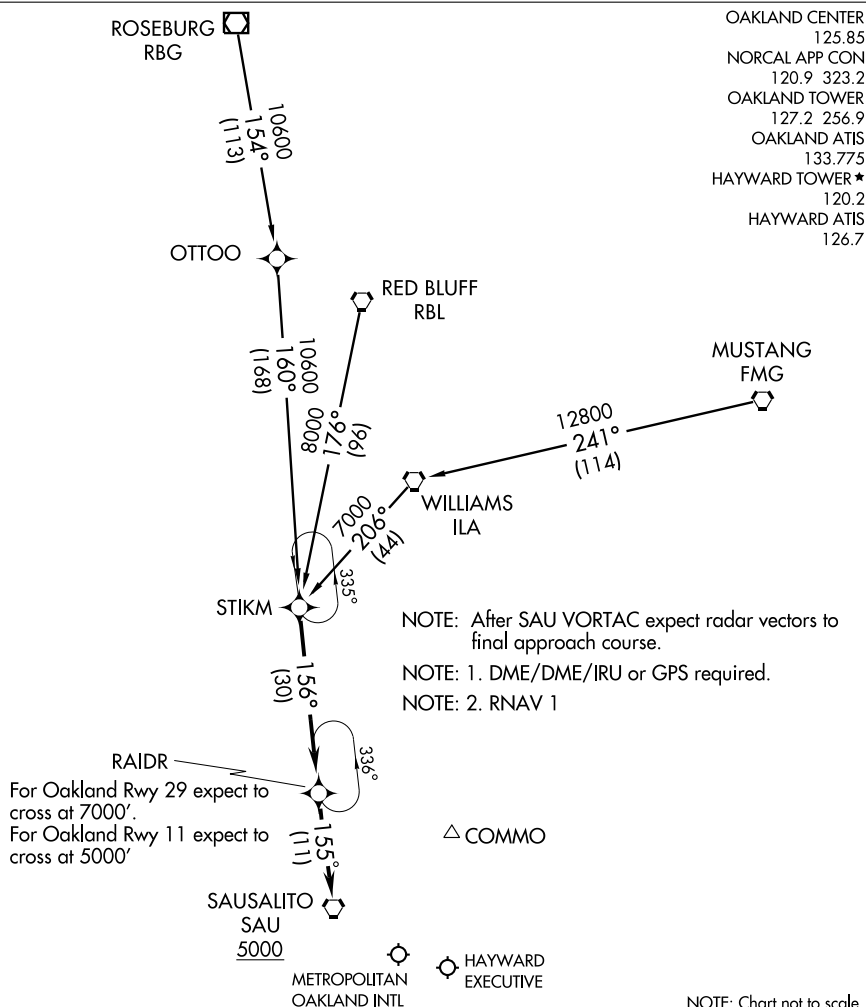
GORMAN TRANSITION (GMN. PXN2): From over GMN VORTAC via GMN R-305 and PXN R-124 to PXN VORTAC. Thence....

....From over PXN VORTAC via PXN R-301 to SUNOL INT. Expect radar vectors to the final approach course.

RAIDR TWO ARRIVAL (RNAV)

ST-294 (FAA)

OAKLAND, CALIFORNIA

MUSTANG TRANSITION (FMG.RAIDR2)RED BLUFF TRANSITION (RBL.RAIDR2)ROSEBURG TRANSITION (RBG.RAIDR2)

From over STIKM WP via 156° track to RAIDR WP, thence as depicted to cross SAU VORTAC at or above 5000. Expect radar vectors to final approach course.

LOST COMMUNICATIONS:

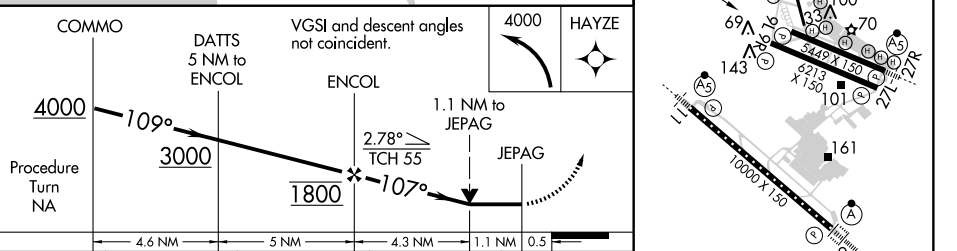
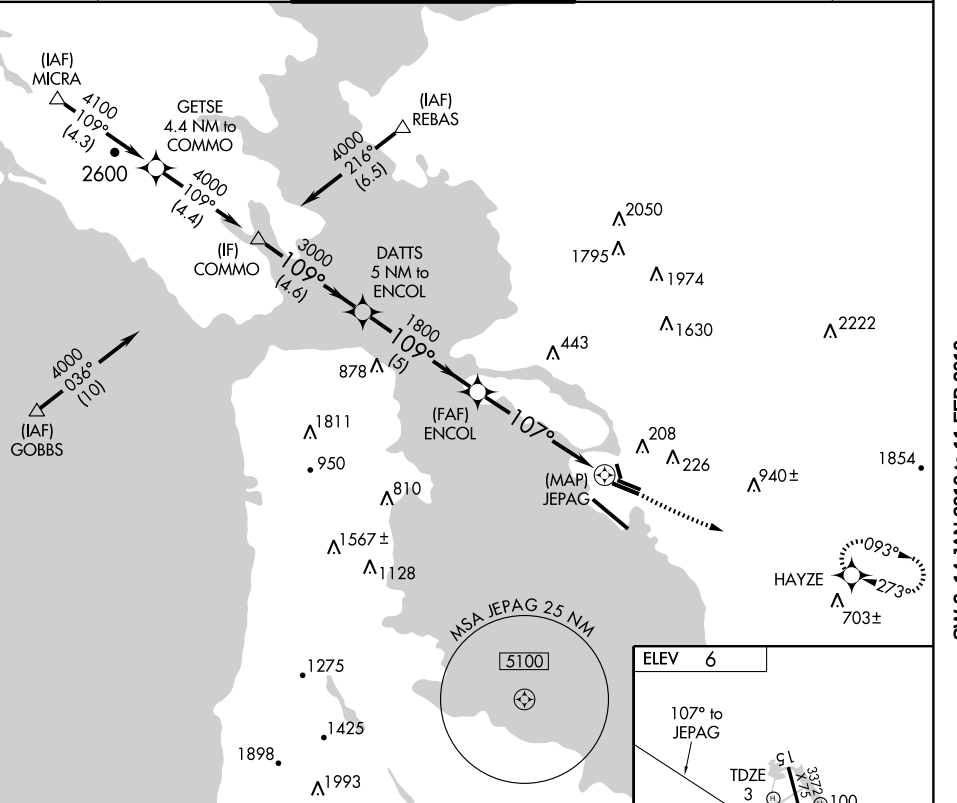
Depart SAU VORTAC and proceed direct to COMMO INT.

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct HAYZE WP and hold.

ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9	GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75	CLNC DEL 121.1
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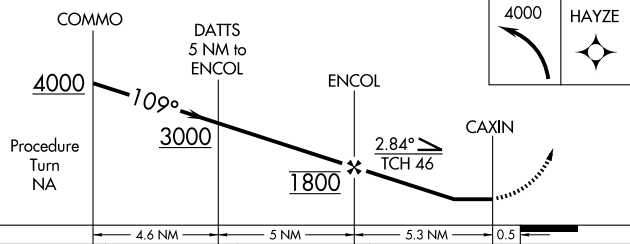
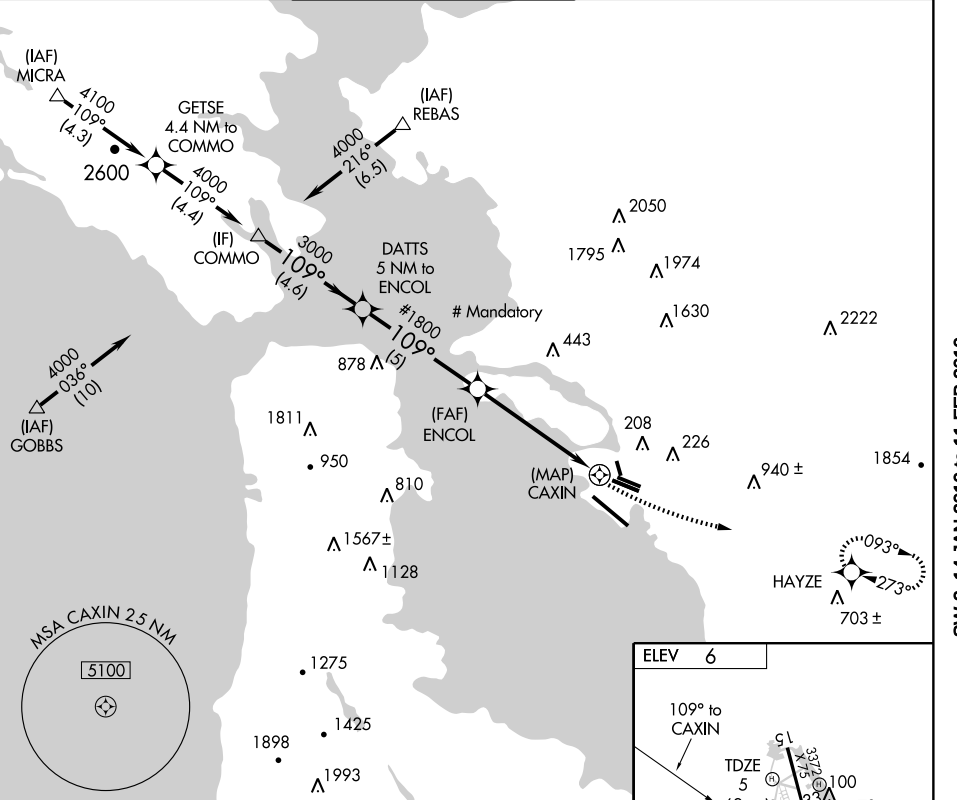
CATEGORY	A	B	C	D	
LNAV MDA	540-1	537 (600-1)	540-1½ 537 (600-1½)	540-1¾ 537 (600-1¾)	TDZ/CL Rwy 29 MIRL Rwy 15-33
CIRCLING	540-1	534 (600-1)	540-1½ 534 (600-1½)	560-2 554 (600-2)	REIL Rwy 9R HIRL Rwys 11-29, 9L-27R, and 9R-27L

NA

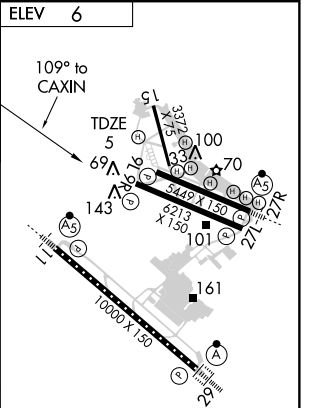
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct HAYZE WP and hold.

ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9	GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75	CLNC DEL 121.1
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CATEGORY	A	B	C	D
RNAV MDA	520-1 515 (600-1)	520-1½ 515 (600-1½)	520-1¾ 515 (600-1¾)	520-2 515 (600-2)
CIRCLING	520-1 514 (600-1)	540-1 534 (600-1)	540-1½ 534 (600-1½)	560-2 554 (600-2)



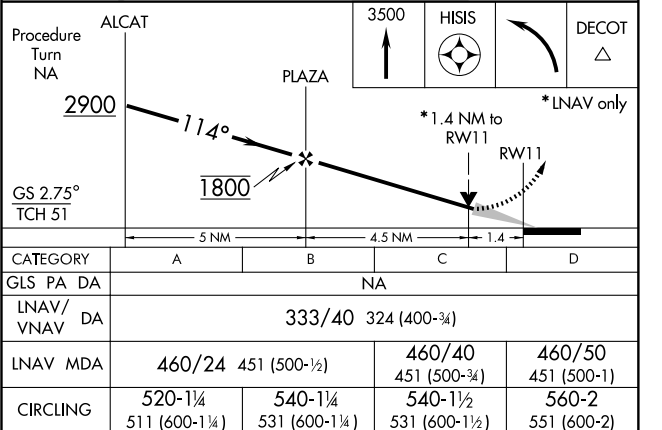
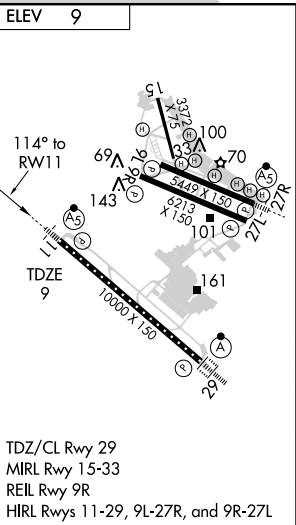
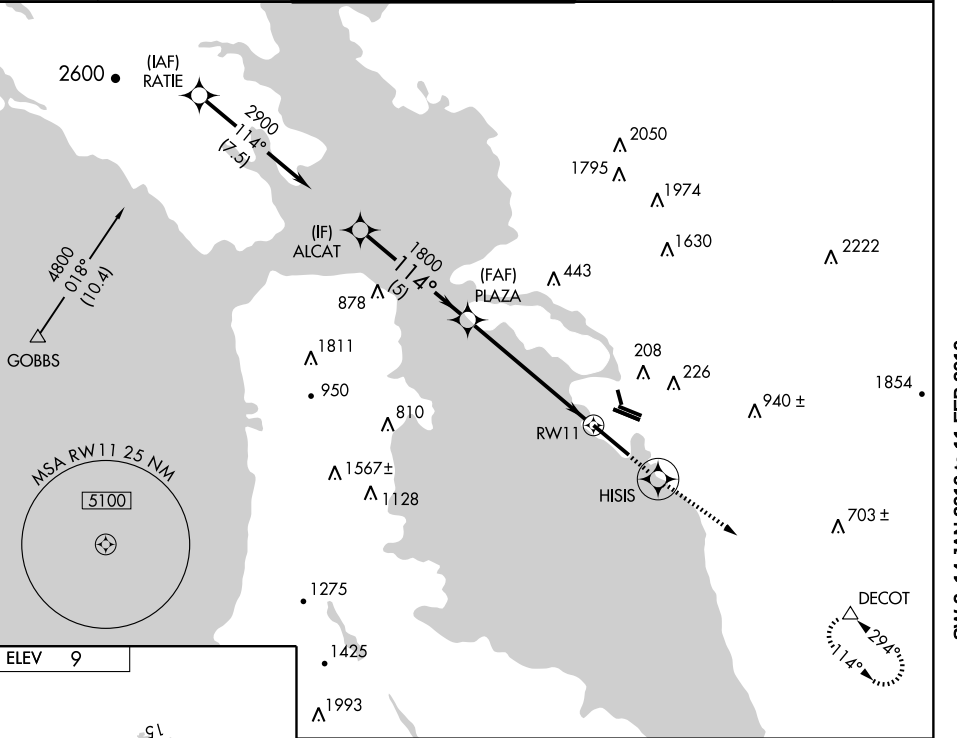
TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwys 11-29, 9L-27R, and 9R-27L

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).

MALSR

MISSED APPROACH: Climb to 3500 direct HISIS WP, then left turn direct DECOT WP and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER				GND CON		CLNC DEL
133.775	125.35 310.8 354.1	(Rwys 9-27, 15-33)	(Rwy 11-29)			(Rwys 9-27, 15-33)	(Rwy 11-29)	
		118.3 291.65	127.2 256.9			121.9	121.75	121.1



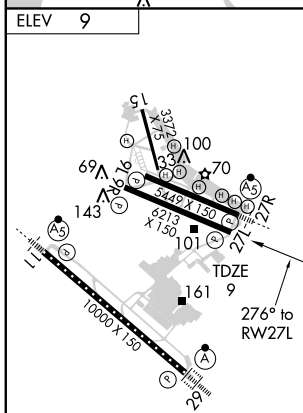
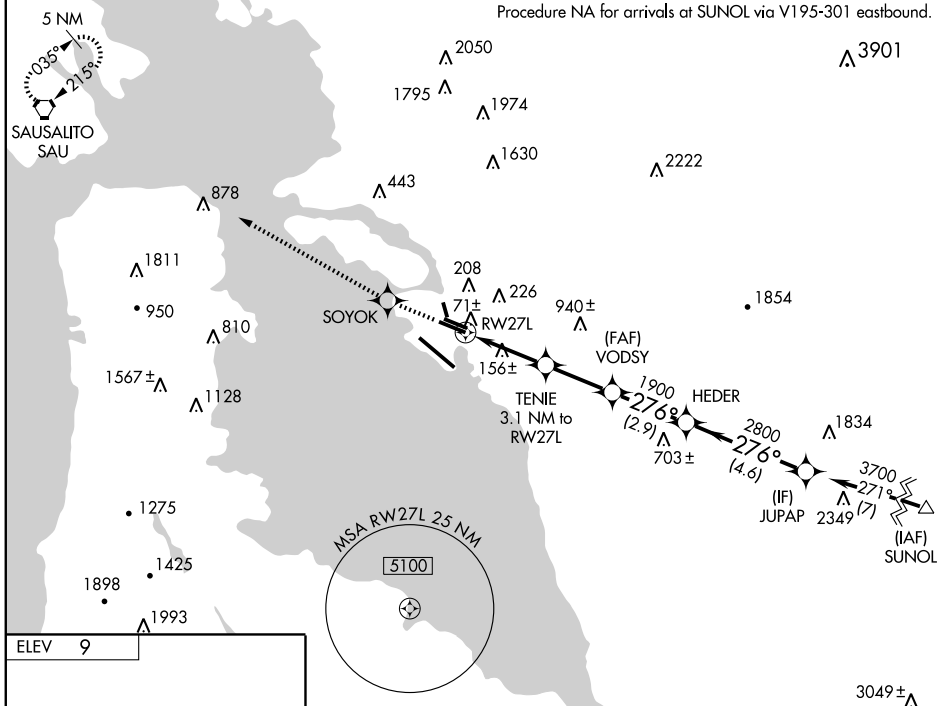
WAAS CH 72700 W27A	APP CRS 276°	Rwy Idg 6213 TDZE 9 Apt Elev 9
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RNAV (GPS) RWY 27L

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

▼	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F) DME/DME RNP -0.3 NA.				MISSED APPROACH: Climb to 4000 direct SOYOK then via 283° track to SAU VORTAC and hold, continue climb-in-hold to 4000.			
	ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1			OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75	

Procedure NA for arrivals at SUNOL via V195-301 eastbound.



4000 ↑	SOYOK ✦	283° track	SAU ◡	JUPAP			
*LNAV only		TENIE 3.1 NM to RW27L	VODSY	HEADR	3700		
*1.1 NM to RW27L		✕		2800	Procedure Turn NA GS 3.00° TCH 55°		
RW27L		1060*	1900	276°			
1.1		2 NM	2.6 NM	2.9 NM	4.6 NM		
CATEGORY	A		B		C	D	
LPV DA			259/40		250 (300-¾)		
LNAV/ VNAV DA			359/60		350 (400-1¼)		
LNAV MDA	420/50		411 (500-1)		420/60 411 (500-1¼)		
CIRCLING	520-1¼ 511 (600-1¼)		540-1¼ 531 (600-1¼)		540-1½ 531 (600-1½)		560-2 551 (600-2)

SW-2. 14 JAN 2010 to 11 FEB 2010

TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwy 11-29, 9L-27R, and 9R-27L

APP CRS	Rwy Idg	5449
276°	TDZE	4
	Apt Elev	6

RNAV (GPS) RWY 27R

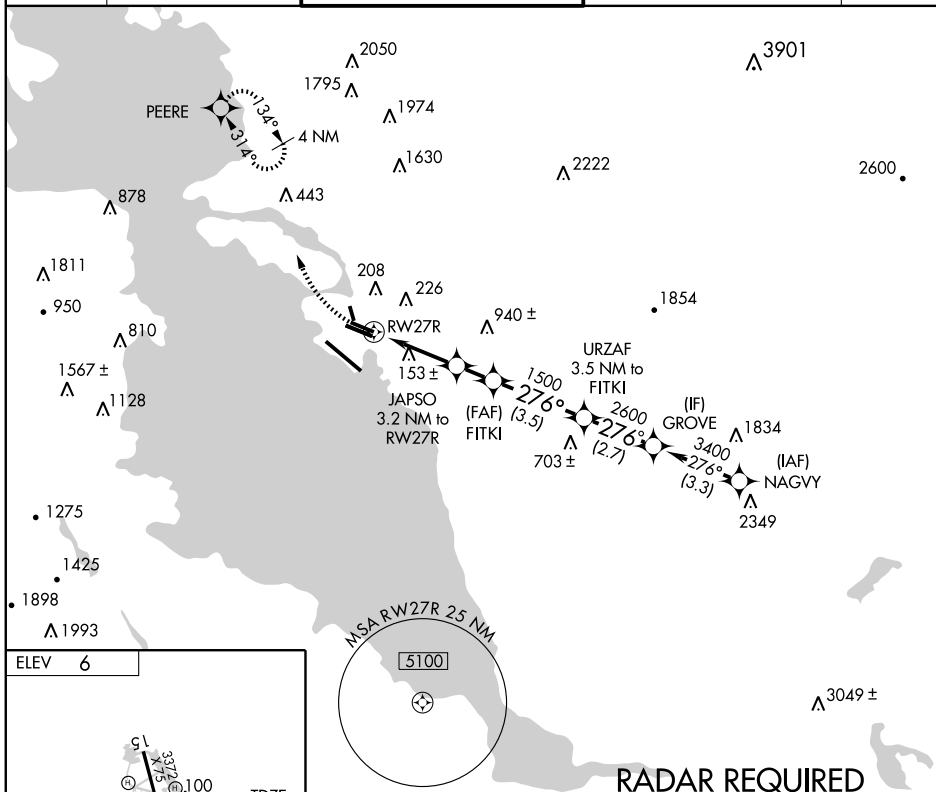
OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

T GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
A NA For inoperative MALSR increase Cat D visibility to RVR 6000.

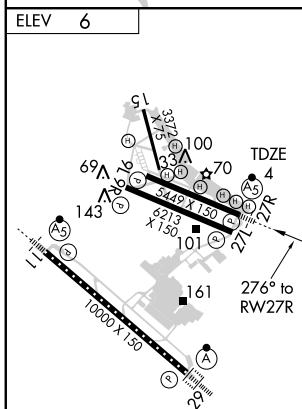
MALSR

MISSED APPROACH: Climbing right turn to 3100 direct PEERE WP and hold.

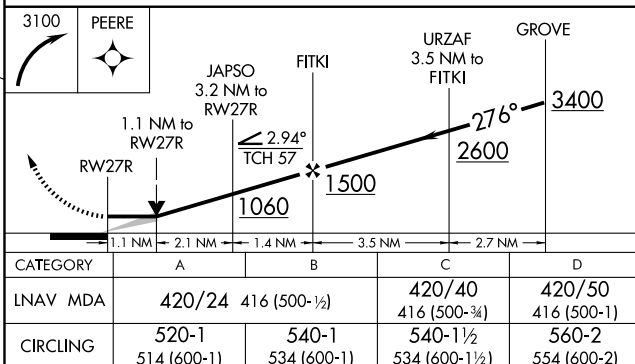
ATIS	NORCAL	APP	CON	OAKLAND TOWER	GND CON	CLNC DEL
(Rwys 9-27, 15-33)	(Rwy 11-29)	(Rwys 9-27, 15-33)	(Rwy 11-29)			
133.775	125.35	310.8	354.1	118.3	121.9	121.1
				291.65	127.2	
				256.9	121.75	



RADAR REQUIRED



TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwy 11-29, 9L-27R, and 9R-27L



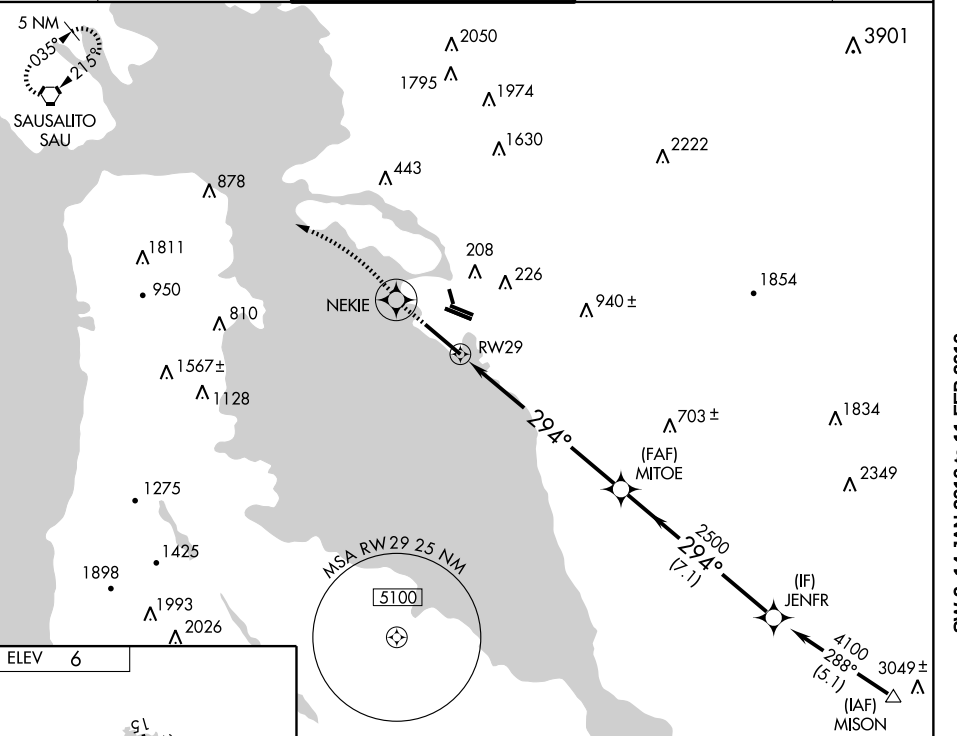
APP CRS	Rwy Idg	10000
294°	TDZE	6
	Apt Elev	6

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Baro-VNAV NA below -15°C (5°F). For inoperative ALSF, increase LNAV/VNAV Cat. D

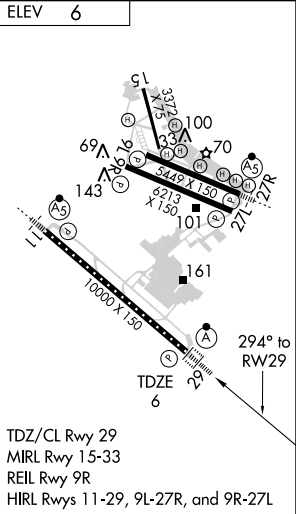
ALSF-2

MISSED APPROACH: Climb to 4000 direct NEKIE WP, then left turn direct SAU VORTAC and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON	CLNC DEL
133.775	125.35 310.8 354.1	(Rwys 9-27, 15-33) 118.3 291.65 (Rwy 11-29) 127.2 256.9	(Rwys 9-27, 15-33) 121.9 (Rwy 11-29) 121.75	121.1



ELEV 6



4000

NEKIE

SAU

MITOE

JENFR

Procedure Turn NA

*LNAV only

*1.6 NM to RW29

RW29

1.6

5.9 NM

7.1 NM

294°

2500

4100

GS 3.00°

TCH 55

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	300/24 294 (300-½)			300/40 294 (300-¾)
LNAV MDA	580/24 574 (600-½)		580/50 574 (600-1)	580/60 574 (600-1¼)
CIRCLING	580-1 574 (600-1)		580-1½ 574 (600-1½)	580-2 574 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

(SALAD1.ALTAM) 09127 SALAD ONE DEPARTURE

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA

ATIS 133.775
CLNC DEL
121.1
GND CON
NORTH 121.9
SOUTH 121.75
OAKLAND TOWER
118.3 291.65 (Rwys 27L/R)
127.2 256.9 (Rwy 29)
NORCAL DEP CON
120.9 323.2

SCAGGS ISLAND
112.1 SGD
Chan 58

SACRAMENTO
115.2 SAC
Chan 99

OAKLAND
116.8 OAK
Chan 115

SALAD
N37°46.43'
W121°57.61'
4000

MANTECA
116.0 ECA
Chan 107
N37°50.02' - W121°10.28'
L-2-3, H-3

ALTAM
N37°48.73'
W121°44.83'
5000

TAKE-OFF MINIMUMS

Rwys 9L/R, 11, 15, 29, 33: not authorized.

Rwy 27L/R: 2100-3 or standard with a minimum climb of 270' per NM to 2000.

NOTE: For use 2200-0600L.

NOTE: For Cat A/B prop aircraft only.

NOTE: Chart not to scale.

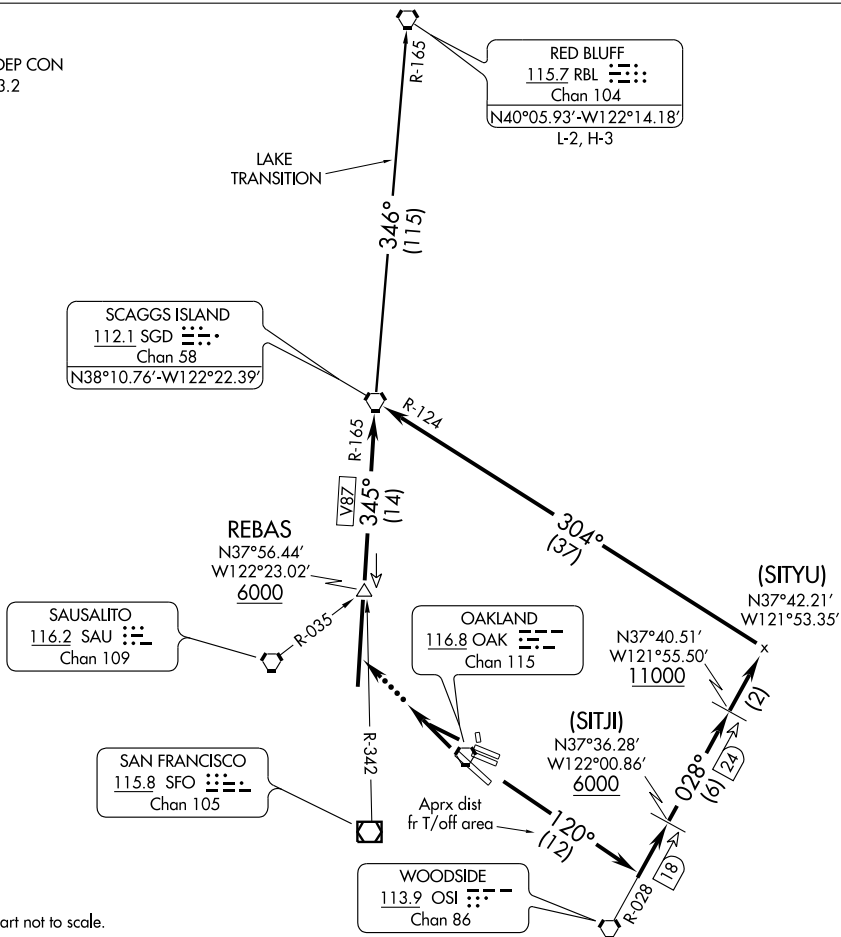
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 27 L/R: Climbing right turn heading 097° to intercept and proceed via OAK VORTAC R-060 (V28-109-244-392) to ALTAM INT. Cross SALAD INT/OAK 13 DME at or above 4000, cross ALTAM INT/OAK 23 DME at or above 5000. Then via transition or assigned route. Expect clearance to filed altitude 10 minutes after departure.

MANTECA TRANSITION (SALAD1.ECA): From over ALTAM INT via ECA R-250 to ECA VORTAC.

SW-2, 14 JAN 2010 to 11 FEB 2010

CLNC DEL
121.1
NORCAL DEP CON
120.9 323.2



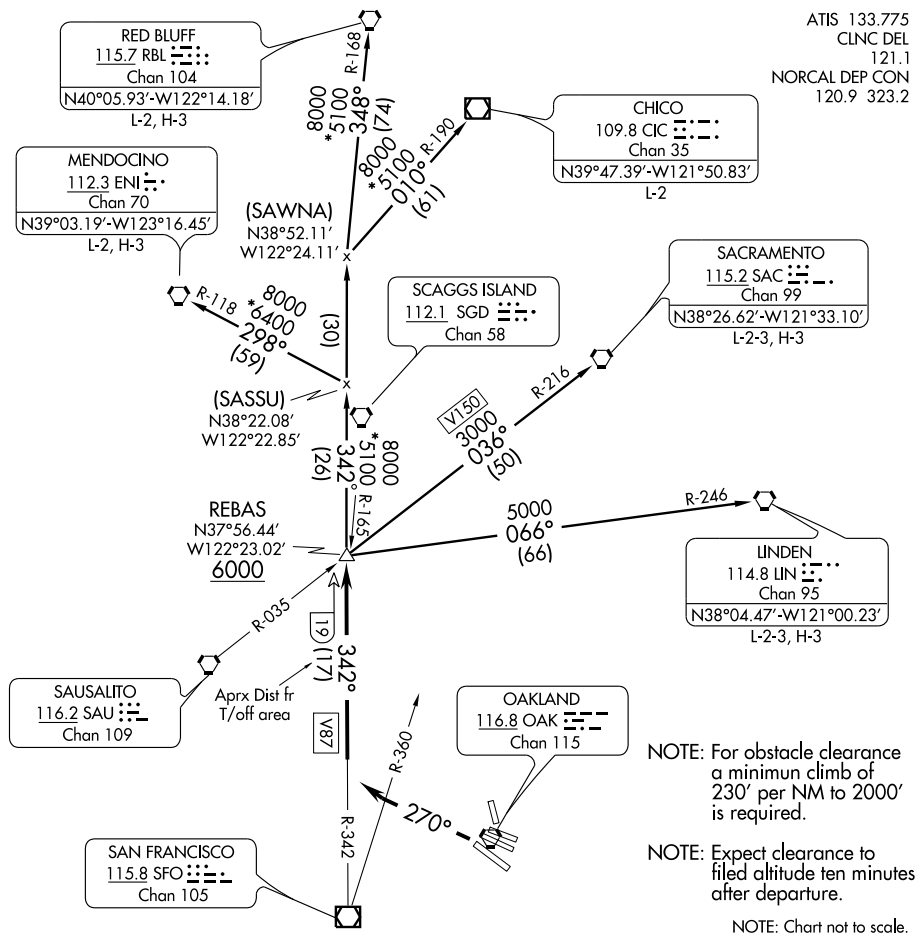
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R AND 11: Turn right heading 120° to intercept and proceed via the OSI R-028 to intercept and proceed via the SGD R-124 to SGD VORTAC. Thence via (transition) or (assigned route). Expect clearance to filed altitude ten minutes after departure.

TAKE-OFF RUNWAYS 27L/R AND 29: Maintain runway heading for vector to the SGD R-165, then via the SGD R-165 to the SGD VORTAC. Cross the SGD R-165 14 DME at or above 6000'. Thence via (transition) or (assigned route). Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: Take-off runways 27L/R and 29: Intercept the SGD R-165, resume normal navigation.

LAKE TRANSITION (SGD1.RBL): From over SGD VORTAC via SGD R-346 and RBL R-165 to RBL VORTAC.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 29: Turn left heading 270° to intercept and proceed via SFO R-342 (commence right turn at SFO R-360) to REBAS INT. Cross REBAS INT at or above 6000'. Thence via (transition) or (assigned route).

CHICO TRANSITION (SLNT7.CIC): From over REBAS INT via SFO R-342 and CIC R-190 to CIC VOR/DME.

LINDEN TRANSITION (SLNT7.LIN): From over REBAS INT via LIN R-246 to LIN VORTAC.

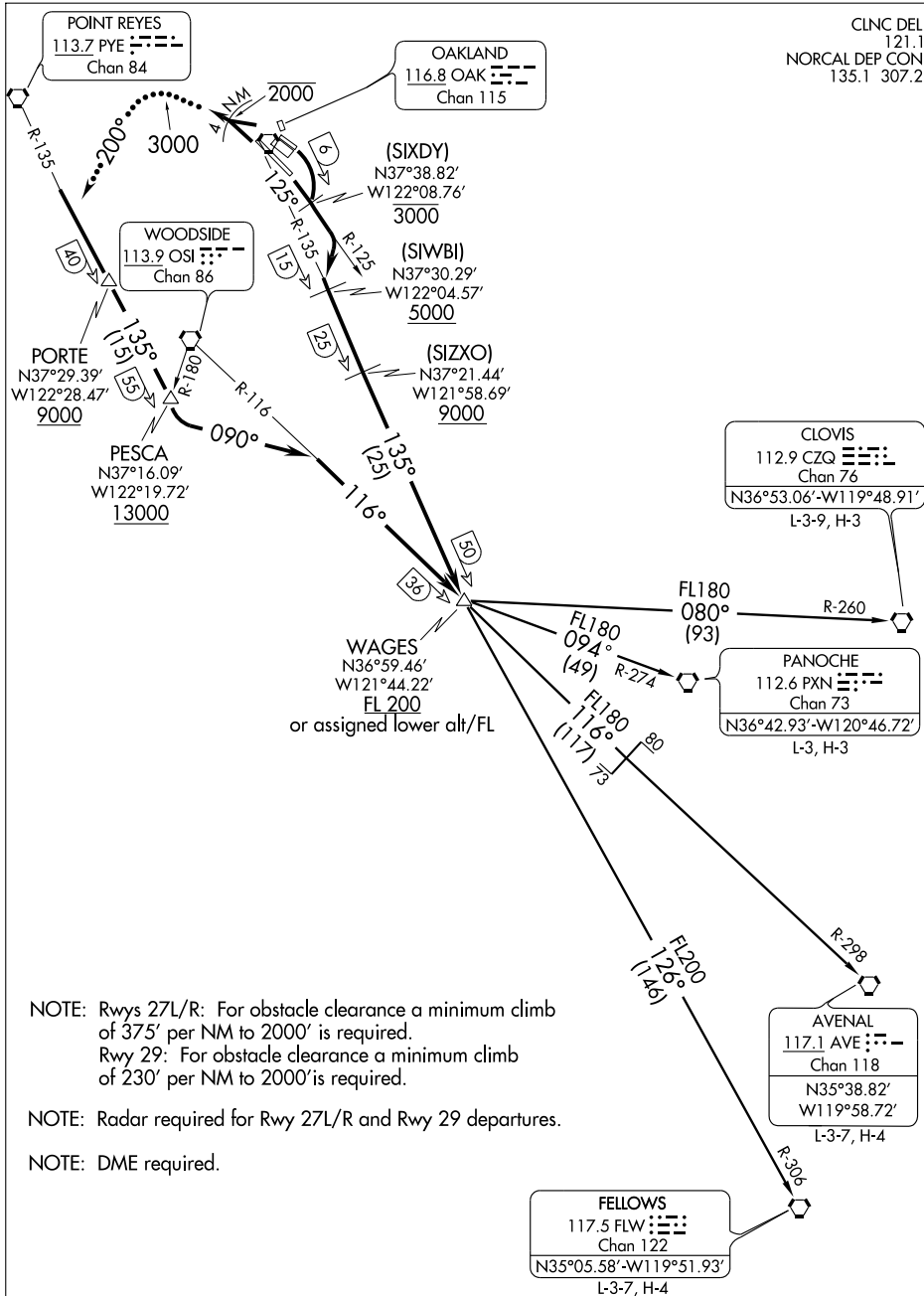
MENDOCINO TRANSITION (SLNT7.ENI): From over REBAS INT via SFO R-342 and ENI R-118 to ENI VORTAC.

RED BLUFF TRANSITION (SLNT7.RBL): From over REBAS INT via SFO R-342 and RBL R-168 to RBL VORTAC

SACRAMENTO TRANSITION (SLNT7.SAC): From over REBAS INT via SAC R-216 to SAC VORTAC.

SKYLINE THREE DEPARTURE

OAKLAND / METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R: Turn right to intercept and proceed via the OAK R-125, cross the OAK R-125/6 DME fix at or below 3000'; then turn right to intercept and proceed via the OAK R-135 to WAGES INT. Cross the OAK R-135/15 DME fix at or above 5000'. Cross the OAK R-135/25 DME fix at or above 9000'. Thence....

TAKE-OFF RUNWAY 11: Maintain runway heading to intercept and proceed via the OAK R-125, cross the OAK R-125/6 DME fix at or below 3000'; then turn right to intercept and proceed via the OAK R-135 to WAGES INT. Cross the OAK R-135/15 DME fix at or above 5000'. Cross the OAK R-135/25 DME fix at or above 9000'. Thence....

TAKE-OFF RUNWAYS 27L/R and 29: Maintain runway heading for vector to the PYE R-135, then via the PYE R-135 to PESCA INT. Cross a point 4 miles northwest of OAK VORTAC at or below 2000'. Cross PORTE DME FIX at or above 9000' and PESCA INT at or above 13000'. Then turn left heading 090° to intercept and proceed via the OSI R-116 to WAGES INT. Thence....

....via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure. Cross WAGES INT at or above FL200 or assigned lower altitude or flight level.

LOST COMMUNICATIONS:

Take-off runways 27L/R and 29: After reaching 3000', turn left heading 200°, intercept and proceed via the PYE R-135. Resume your own navigation.

AVENAL TRANSITION (SKYL3.AVE): From over WAGES INT via OSI R-116 and AVE R-298 to AVE VORTAC.

CLOVIS TRANSITION (SKYL3.CZQ): From over WAGES INT via CZQ R-260 to CZQ VORTAC.

FELLOWS TRANSITION (SKYL3.FLW): From over WAGES INT via FLW R-306 to FLW VORTAC.

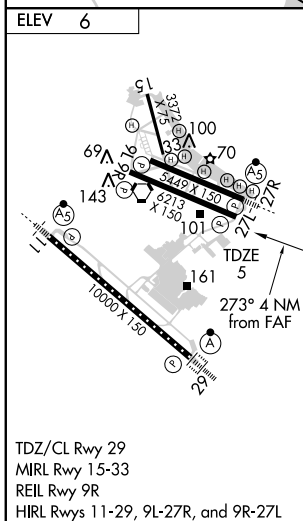
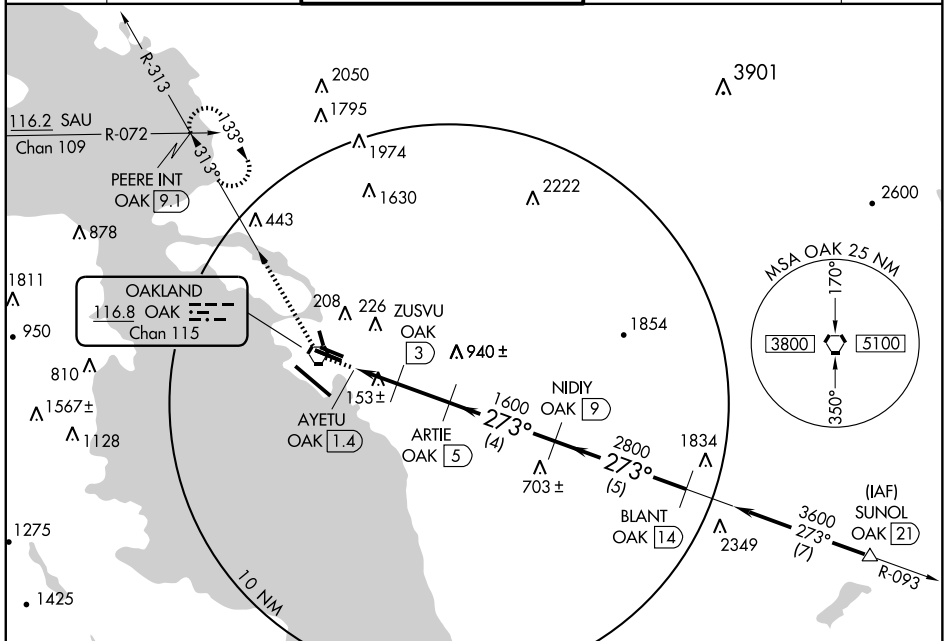
PANOCHÉ TRANSITION (SKYL3.PXN): From over WAGES INT via PXN R-274 to PXN VORTAC.

VORTAC OAK 116.8 Chan 115	APP CRS 273°	Rwy Idg TDZE Apt Elev	6213 5 6
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VOR/DME RWY 27L

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

				MISSED APPROACH: Climb to 3100 via OAK R-313 to PEERE Int/OAK 9.1 DME and hold.			
ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75		CLNC DEL 121.1	



3100 ↑ OAK R-313 PEERE INT OAK [9.1]		VGSi and descent angles not coincident.		NIDY OAK [9]		BLANT OAK [14]	
VORTAC AYETU OAK [1.4]		ZUSVU OAK [3]		ARTIE OAK [5]		3600 2800 Procedure Turn NA	
0.5		0.6		1 NM		2 NM	
CATEGORY		A		B		C	
S-27L		420/50 415 (500-1)		420/60 415 (500-1¼)			
CIRCLING		520-1 514 (600-1)		540-1 534 (600-1)		540-1½ 534 (600-1½)	
						560-2 554 (600-2)	

VORTAC OAK 116.8 Chan 115	APP CRS 108°	Rwy Idg 6213 TDZE 5 Apt Elev 6
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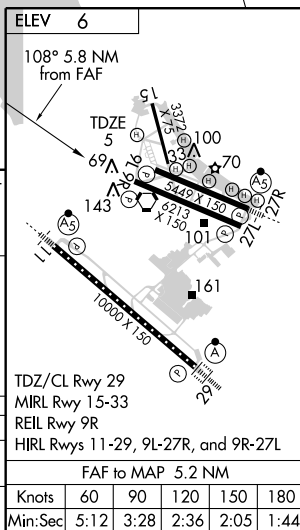
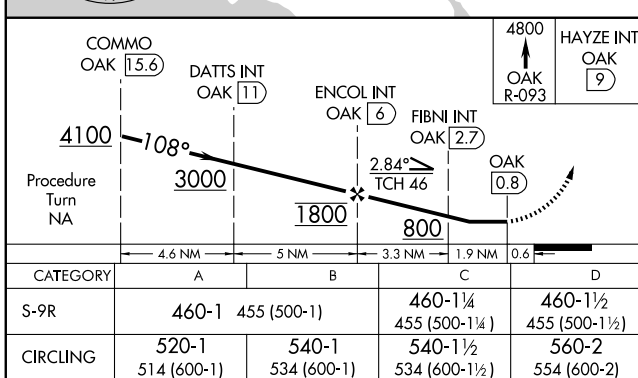
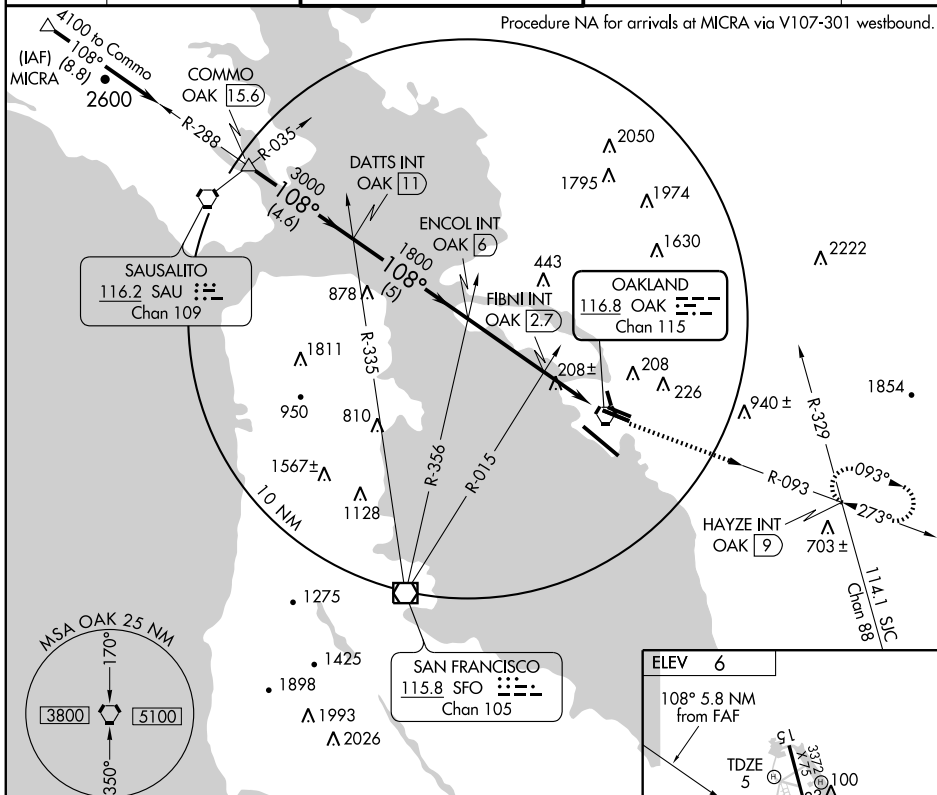
VOR RWY 9R
OAKLAND/METROPOLITAN OAKLAND INTL (OAK)



MISSED APPROACH: Climb to 4800 via OAK R-093 to HAYZE Int/OAK 9 DME and hold.

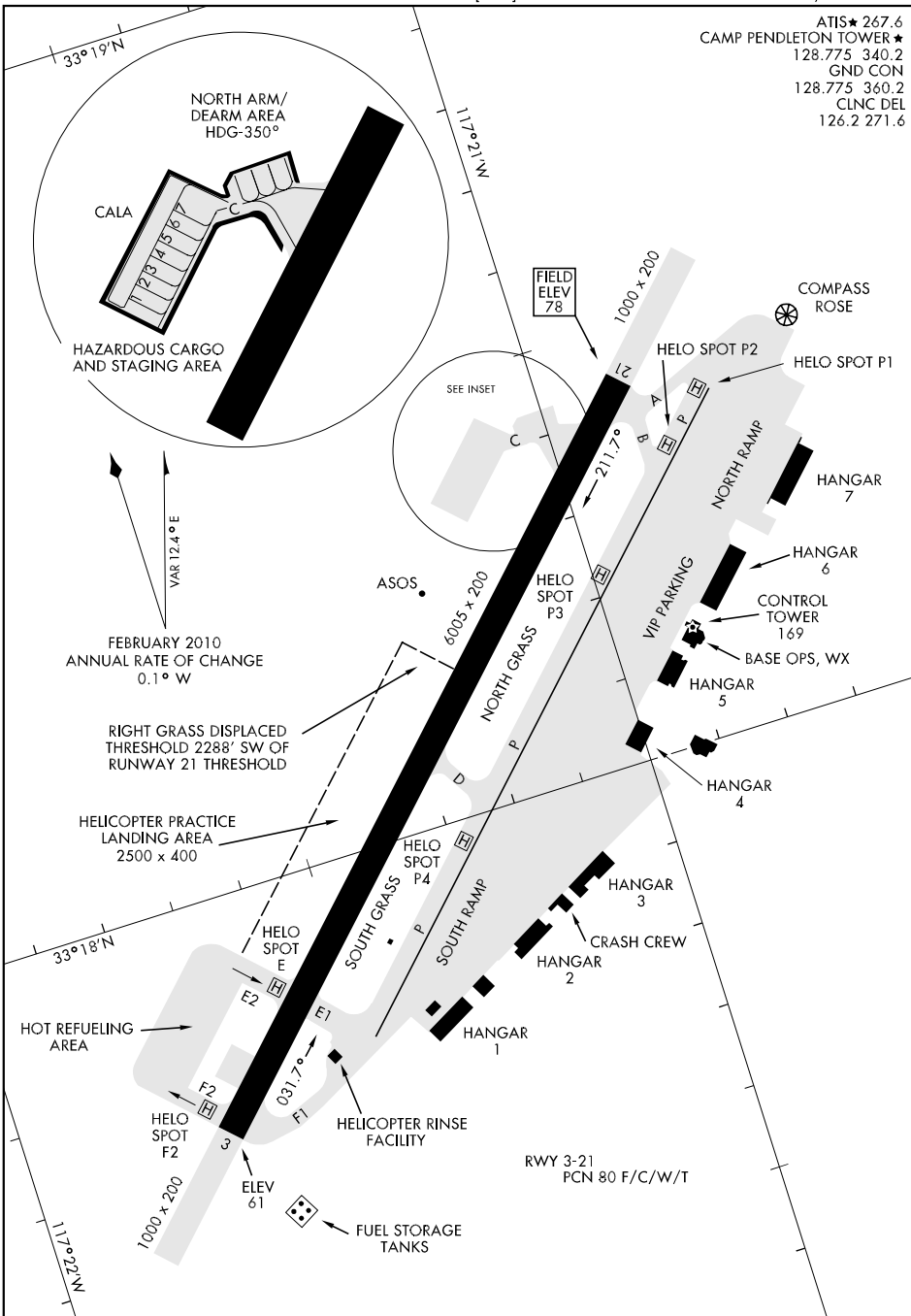
ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9	GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75	CLNC DEL 121.1
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Procedure NA for arrivals at MICRA via V107-301 westbound.



ATIS★ 267.6
 CAMP PENDLETON TOWER★
 128.775 340.2
 GND CON
 128.775 360.2
 CLNC DEL
 126.2 271.6

SW-3, 14 JAN 2010 to 11 FEB 2010



BEACH-FIVE DEPARTURE (BECH 5 • OCN)(PILOT NAV)

CAMP PENDLETON MSA (MOUNT FIELD) (RWY 21)
OCEANSIDE, CALIFORNIA

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

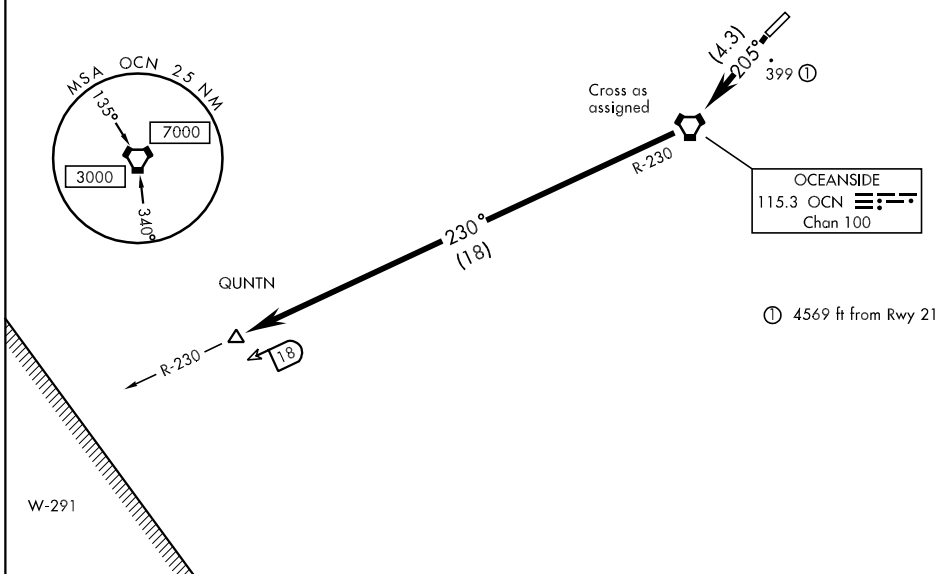
Rwy	Knots	60	120	180	240
21 ★	V/V(fpm)	430	860	1290	1720

* Minimum Climb Rate to 800

(800-2 ceiling and vis authorized
in lieu of Minimum Climb Rate)

MILITARY USE ONLY

SW-3, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 21: Climb direct to OCN. Cross OCN at assigned altitude.

QUINTON TRANSITION (BECH 5 • QUNTN): Fly OCN R-230 to 18 DME (QUNTN).

BULLDOG-SEVEN DEPARTURE (BLDG 7 • VISTA)

OCEANSIDE, CALIFORNIA

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

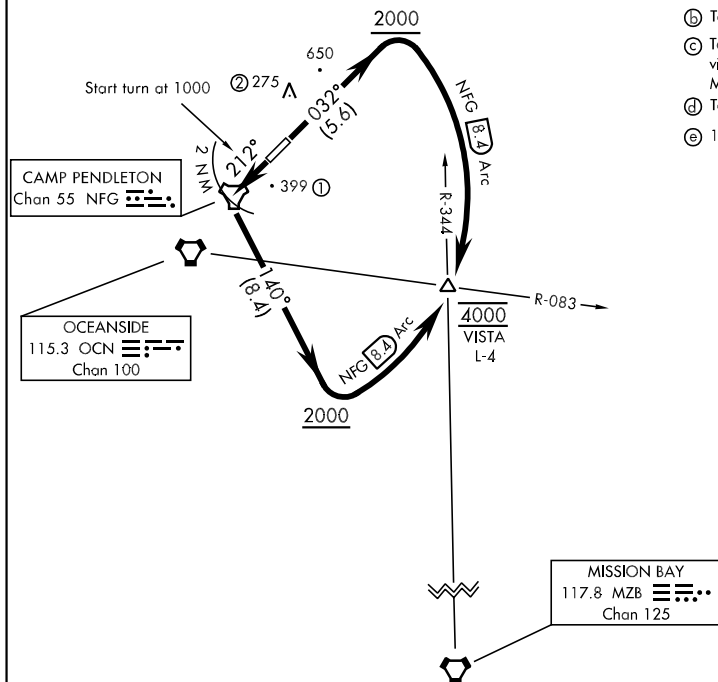
MILITARY USE ONLY

- ① 5470 ft from Rwy 21
- ② 4680 ft from Rwy 3

Rwy	Knots	60	120	180	240
*3 (a)	V/V(fpm)	320	640	960	1280
†3 (b)	V/V(fpm)	350	700	1050	1400
*21 (c)	V/V(fpm)	430	860	1290	1720
†21 (d)	V/V(fpm)	470	940	1410	1880
†21 (e)	V/V(fpm)	220	440	660	880

* Minimum † ATC Climb Rate

- (a) To 900 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (b) To 2000
- (c) To 800 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (d) To 1000
- (e) 1000 to 4000



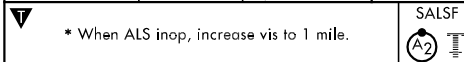
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb to 2000 via track 032°. Join the NFG TACAN 8.4 DME ARC at or above 2000 and arc E to VISTA int. Cross VISTA INT at 4000 or assigned altitude.

TAKE-OFF RWY 21: Climb to 1000 within 2 NM via track 212° then turn left heading 140°. Join the NFG TACAN 8.4 DME arc at or above 2000 and arc E to VISTA int. Cross VISTA INT at 4000 or assigned altitude.

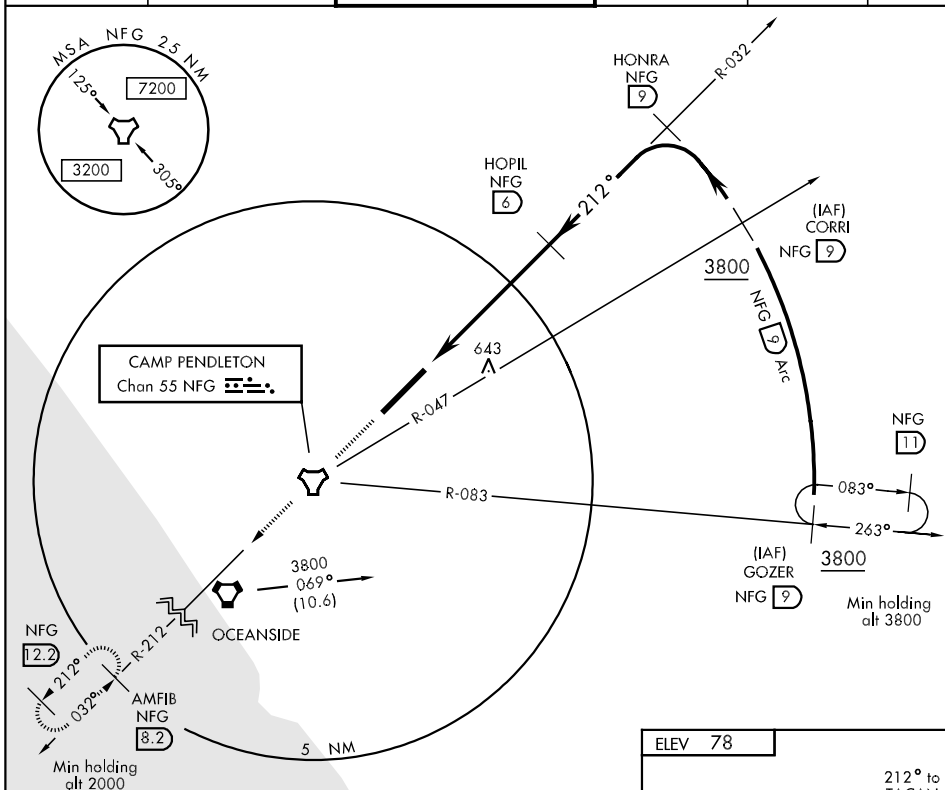
TACAN NFG Chan 55	APCH CRS 212°	Rwy Idg 6005 TDZE 78 Arpt Elev 78
-----------------------------	-------------------------	--

AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)



MISSED APPROACH: Climb to 2000 via NFG TACAN R-032 and R-212 to AMFIB (NFG R-212/8.2 DME) and hold.

ATIS ★ 267.6	SOCAL APP CON 127.3 323.0	CAMP PENDLETON TOWER ★ 128.775 340.2	GND CON 128.775 360.2	CLNC DEL 126.2 271.6	ASR/PAR
-----------------	------------------------------	---	--------------------------	-------------------------	---------



EMERG SAFE ALT 100 NM 13,600

VDA and VGSI not coincident.

TACAN

ZAKES 360

HOPIL 600

HONRA 900

CORRI 900

GOZER 900

21.2°

1800

2900

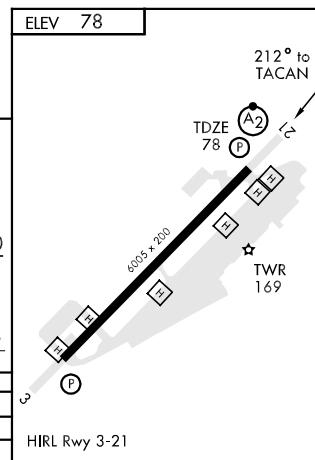
3800

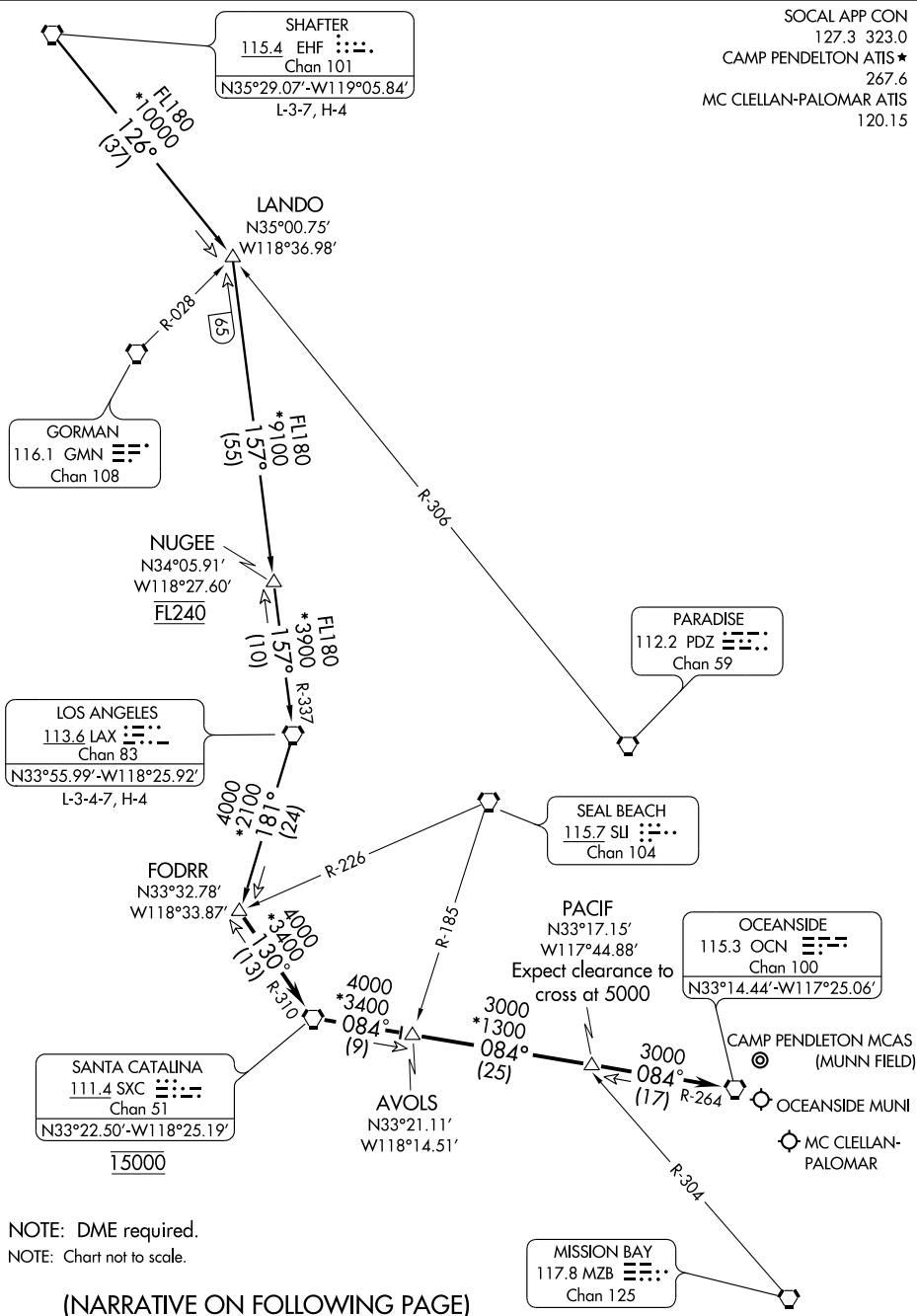
3800

2.4 NM

4.85° TCH 40

CATEGORY	COPTER	
H-21*	900-¾	822 (900-¾)
CIRCLING	NOT AUTHORIZED	





ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.FODRR1): From over LAX VORTAC via LAX R-181 to FODRR INT/DME FIX. Thence....

SHAFTER TRANSITION (EHF.FODRR1): From over EHF VORTAC via EHF R-126 and LAX R-337 to LAX VORTAC, then via LAX R-181 to FODRR INT/DME FIX. Thence....

....From over FODRR INT/DME FIX via SXC R-310 to SXC VORTAC, cross SXC VORTAC at 15000, then via SXC R-084 to AVOLS INT/DME FIX, then via SXC R-084 and OCN R-264 to PACIF INT/DME FIX, then via OCN R-264 to OCN VORTAC. Thence....

....LANDING CARLSBAD/MC CLELLAN-PALOMAR: From over OCN VORTAC expect the ILS or LOC RWY 24 approach.

....LANDING CAMP PENDLETON MCAS (MUNN FIELD): From over OCN VORTAC expect the VOR/DME or TACAN RWY 21 approach.

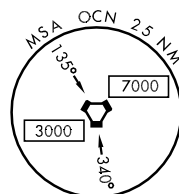
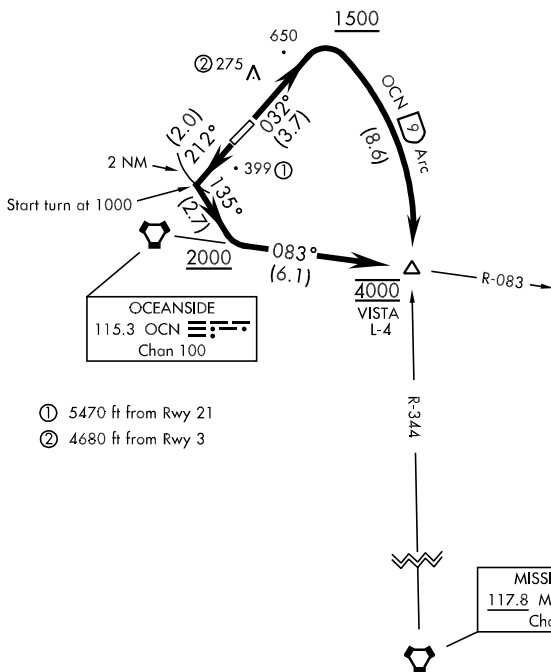
....LANDING OCEANSIDE MUNI: From over OCN VORTAC expect the VOR-A approach.

SL-5985 [USN]

Rwy	Knots	60	120	180	240
*3	V/V(fpm)	320	640	960	1280
+3	V/V(fpm)	390	780	1170	1560
+3	V/V(fpm)	290	580	870	1160
*21	V/V(fpm)	430	860	1290	1720
+21	V/V(fpm)	470	940	1410	1880
+21	V/V(fpm)	370	740	1110	1480

* Minimum climb rate † ATC Climb Rate

- (a) To 900 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (b) To 1500
- (c) 1500 to 4000
- (d) To 800 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (e) To 1000
- (f) 1000 to 4000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb to 1500 via track 032°. Join the OCN VORTAC 9 DME arc at or above 1500 and arc E to VISTA int. Cross VISTA at 4000 or assigned altitude.

TAKE-OFF RWY 21: Climb to 1000 within 2 NM via track 212° turn left heading 135°, to join the OCN VORTAC R-083 at or above 2000 to VISTA int. Cross VISTA at 4000 or assigned altitude.

SW-3, 14 JAN 2010 to 11 FEB 2010

LIMA SIX DEPARTURE (LIMA 6)(VECTOR)

CAMP PENDLETON MSA (MOUNTAIN FIELD) (RWY 3)
OCEANSIDE, CALIFORNIA

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

MILITARY USE ONLY RADAR REQUIRED

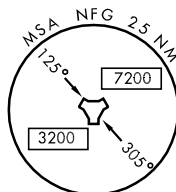
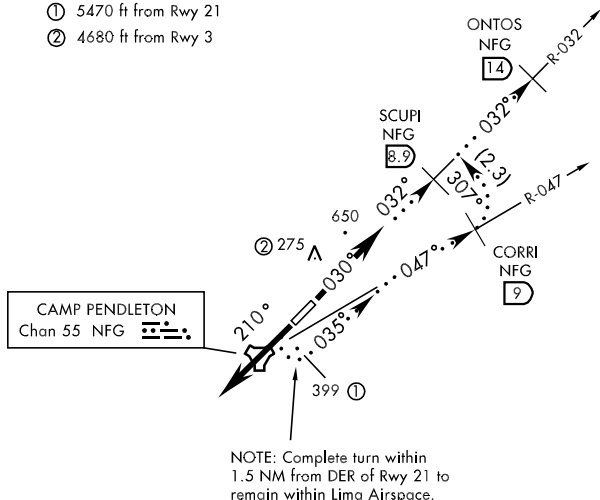
Rwy	Knots	60	120	180	240
* 3 (a) V/V(fpm)		320	640	960	1280
* 21 (b) V/V(fpm)		430	860	1290	1720
† 21 (c) V/V(fpm)		630	1260	1890	2520
** 3 (d) V/V(fpm)		580	1160	1740	2320
** 21 (e) V/V(fpm)		630	1260	1890	2520

* Minimum † ATC Climb Rate
** Lost Communications

- Ⓐ To 900 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- Ⓑ To 800 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- Ⓒ To 1000
- Ⓓ To 3600
- Ⓔ To 1000

Procedure restricted to 150 KIAS max.

- ① 5470 ft from Rwy 21
- ② 4680 ft from Rwy 3



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3 (LIMA 6•ONTOS): Climb heading 030° for radar vectors.

TAKE-OFF RWY 21 (LIMA 6•CORRI): Climb heading 210° for radar vectors.

NOTE: Vectors not auth NW of Rwy 3-21. No turns auth prior to reaching 1000 ft.

Lost Communications:

Runway 3: Climb to 3600 via heading 030°. Intercept NFG R-032 to SCUPI (NFG R-032/8.9 DME).

Runway 21: Climb to 1000 via heading 210°. Then climbing left turn to 3500 via heading 035° prior to NFG 0.2 DME to intercept NFG R-047 to CORRI (NFG R-047/9 DME). †

† F/W: At CORRI, climbing left turn to 5000 heading 307° to intercept NFG R-032 to ONTOS (NFG R-032/14 DME). Proceed with TACAN Z RWY 21.

† Copter: At CORRI, proceed with COPTER TACAN RWY 21.

APCH CRS **211°**
 Rwy Idg **6005**
 TDZE **78**
 Arpt Elev **78**

AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

▼ * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 2 miles, CAT D to 2¼ miles.
 ** Circling RWY 3 NA at night.

SALSF



MISSED APPROACH: Climb to 2000 direct AMFIB and hold.

ATIS ★
267.6

SOCAL APP CON
127.3 323.0

CAMP PENDLETON TOWER ★
128.775 340.2

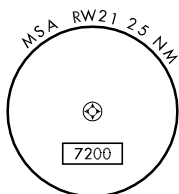
GND CON
128.775 360.2

CLNC DEL
126.2 271.6

ASR/PAR

WESIN

4 NM



JEMIS

(FAF)
JEMOD

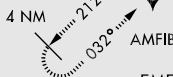
JEPOG

RW21

OCEANSIDE

5000
 337°
 (17.5)

△ ROBNN

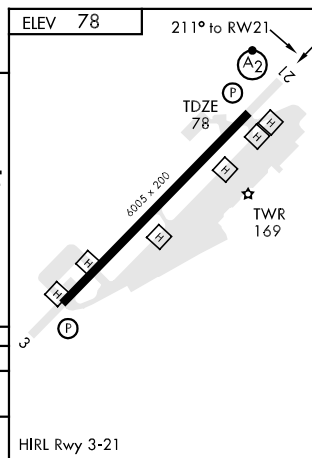
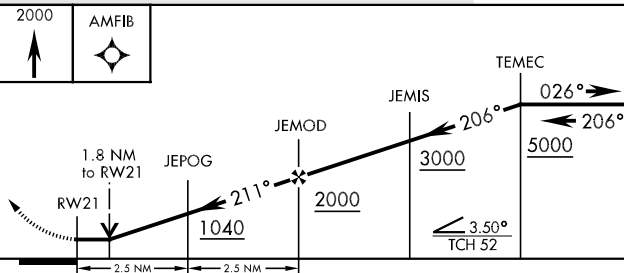


EMERG SAFE ALT 100 NM 13,600



ELEV 78

211° to RW21



CATEGORY

A

B

C

D

LNAV MDA *

800-¾

722

(800-¾)

800-1¼

722 (800-1¼)

800-2

722 (800-2)

CIRCLING **

960-1¼

882 (900-1¼)

1080-1½

1002 (1100-1½)

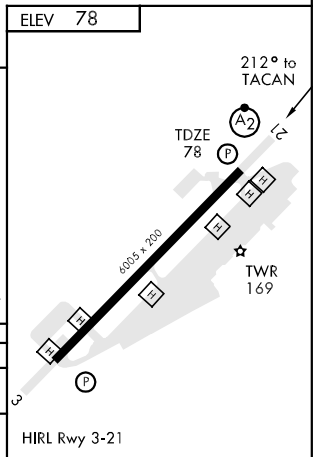
1180-3

1102 (1200-3)

1200-3

1122 (1200-3)

HIRL Rwy 3-21

SW-3, 14 JAN 2010 to 11 FEB 2010

CATEGORY	A	B	C	D
S-21 *	900-3/4 822 (900-3/4)	900-1 822 (900-1)	900-2 1/4 822 (900-2 1/4)	900-2 1/2 822 (900-2 1/2)
CIRCLING **	960-1 1/4 882 (900-1 1/4)	1080-1 1/2 1002 (1100-1 1/2)	1180-3 1102 (1200-3)	1200-3 1122 (1200-3)

VORTAC OCN
115.3
Chan **100**

APCH CRS
206°

Rwy Idg
TDZE
Arpt Elev
6005
78
78

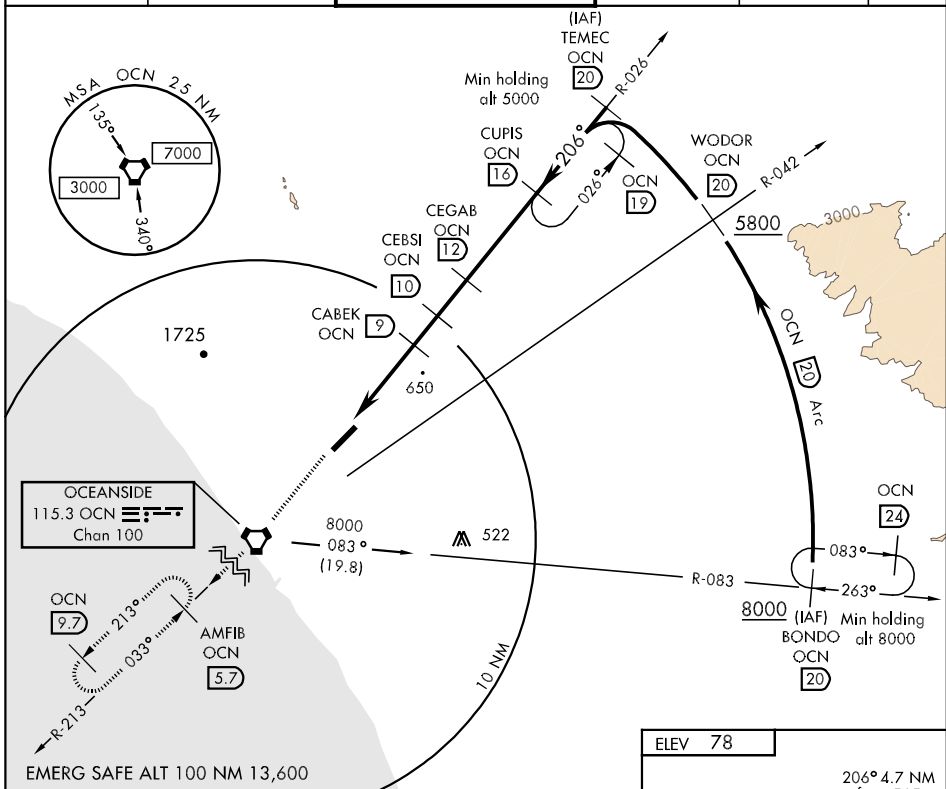
AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

★ When ALS inop, increase vis CAT AB to 1¼ mile, CAT C to 2¾ miles, CAT D to 3 miles.
** Circling Rwy 3 not authorized at night.

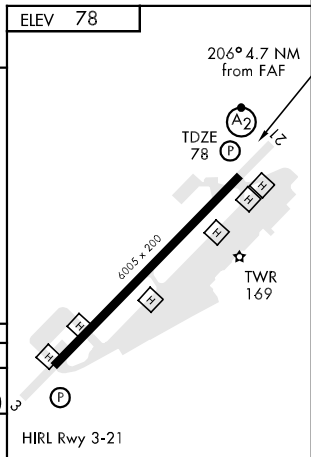


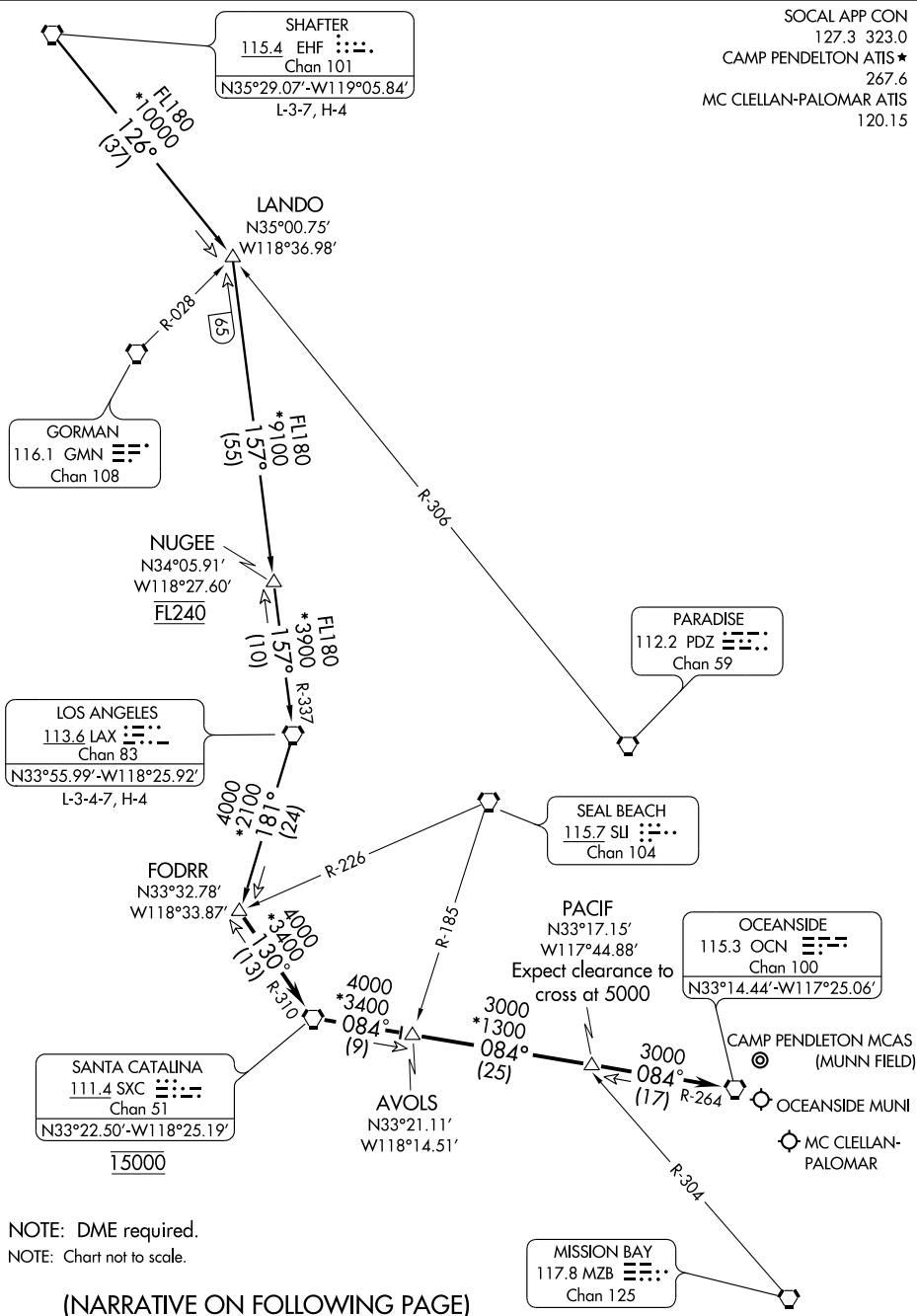
MISSED APPROACH: Climb to 2000 via OCN VORTAC R-026 and R-213 to AMFIB (OCN R-213/5.7 DME) and hold.

ATIS ★ 267.6	SOCAL APP CON 127.3 323.0	CAMP PENDLETON TOWER ★ 128.775 340.2	GND CON 128.775 360.2	CLNC DEL 126.2 271.6	ASR/PAR
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CATEGORY	A	B	C	D
S-21*	1020-1 942 (1000-1)	1020-2 ½ 942 (1000-2 ½)	1020-2 ¾ 942 (1000-2 ¾)	1020-3 942 (1000-3)
CIRCLING**	1020-1 ¼ 942 (1000-1 ¼)	1080-1 ½ 1002 (1100-1 ½)	1180-3 1102 (1200-3)	1200-3 1122 (1200-3)





ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.FODRR1): From over LAX VORTAC via LAX R-181 to FODRR INT/DME FIX. Thence....

SHAFTER TRANSITION (EHF.FODRR1): From over EHF VORTAC via EHF R-126 and LAX R-337 to LAX VORTAC, then via LAX R-181 to FODRR INT/DME FIX. Thence....

....From over FODRR INT/DME FIX via SXC R-310 to SXC VORTAC, cross SXC VORTAC at 15000, then via SXC R-084 to AVOLS INT/DME FIX, then via SXC R-084 and OCN R-264 to PACIF INT/DME FIX, then via OCN R-264 to OCN VORTAC. Thence....

....LANDING CARLSBAD/MC CLELLAN-PALOMAR: From over OCN VORTAC expect the ILS or LOC RWY 24 approach.

....LANDING CAMP PENDLETON MCAS (MUNN FIELD): From over OCN VORTAC expect the VOR/DME or TACAN RWY 21 approach.

....LANDING OCEANSIDE MUNI: From over OCN VORTAC expect the VOR-A approach.

APP CRS	Rwy Idg	2712
062°	TDZE	28
	Apt Elev	28

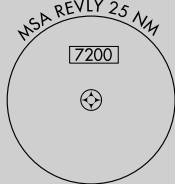
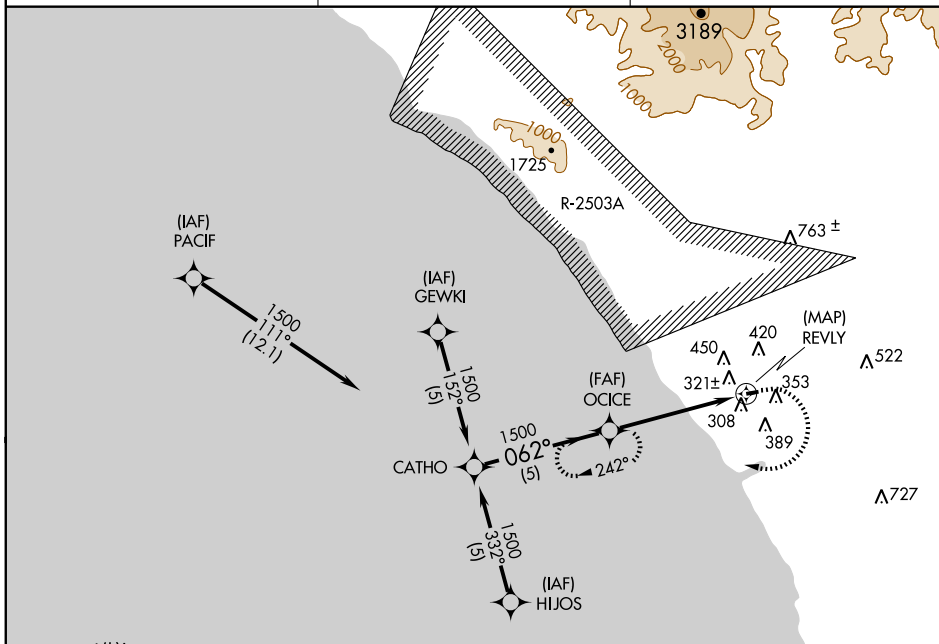
NA

MISSED APPROACH: Climbing right turn to 2000 direct OCICE WP and hold.

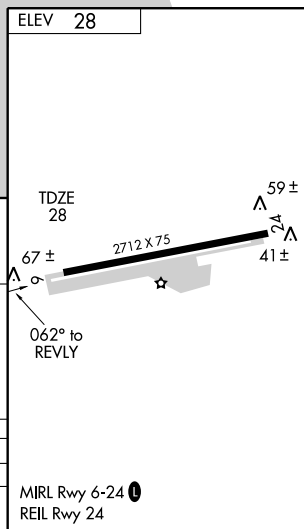
ASOS
127.8

SOCAL APP CON
127.3 323.0

UNICOM
123.0 (CTAF) 0



	CATHO		OCICE		2000	OCICE
Procedure Turn NA	1500		062°		1500	REVLY
	5 NM		5.1 NM			
CATEGORY	A	B	C	D		
S-6	720-1	692 (700-1)		NA		
CIRCLING	880-1	880-1½		NA		
	852 (900-1)	852 (900-1½)		NA		



APP CRS **247°**
Rwy Idg **2712**
TDZE **28**
Apt Elev **28**

GPS RWY 24

OCEANSIDE MUNI (OKB)

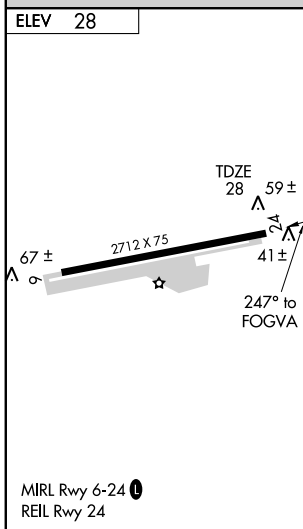
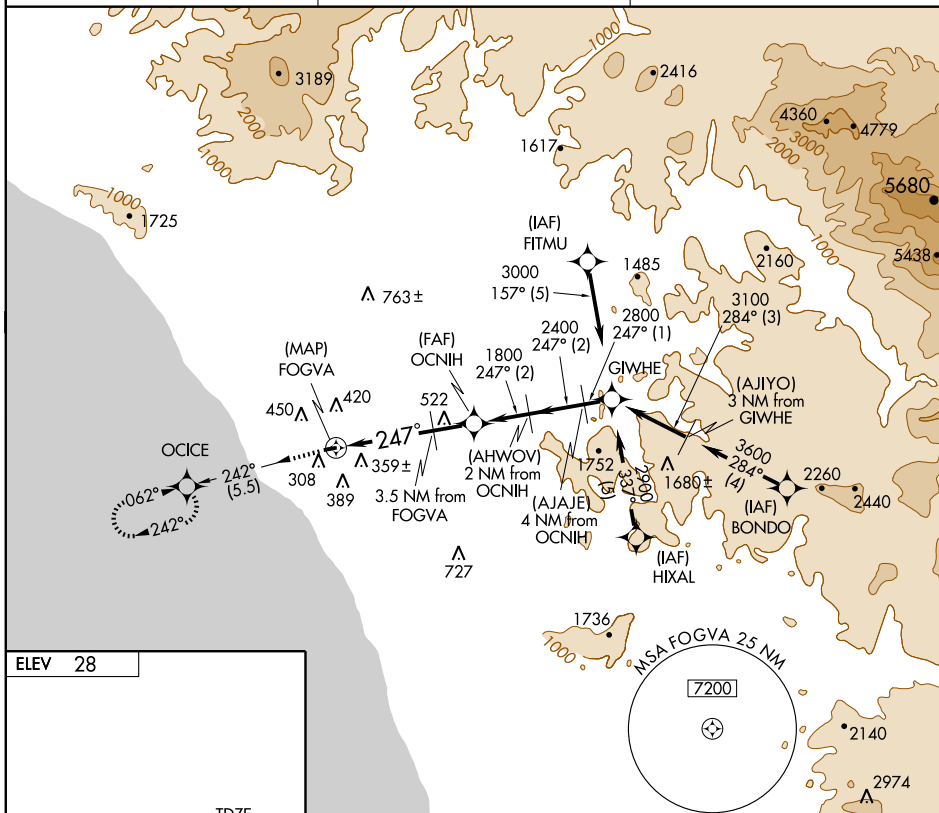


MISSED APPROACH: Climb to 2000 via 242° course to OCICE WP and hold.

ASOS
127.8

SOCAL APP CON
127.3 323.0

UNICOM
123.0 (CTAF) 0



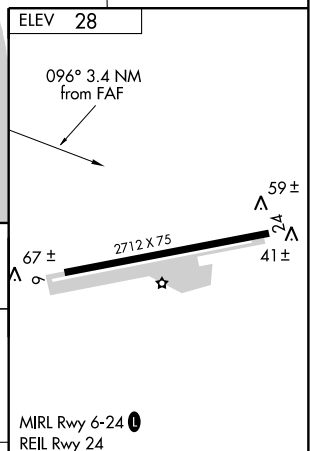
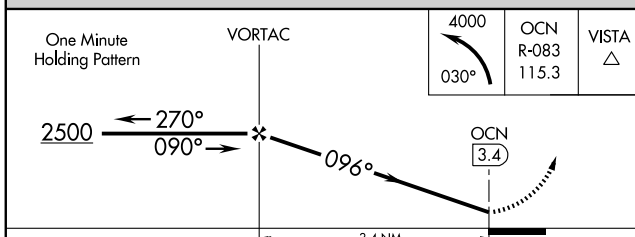
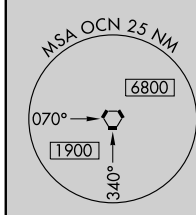
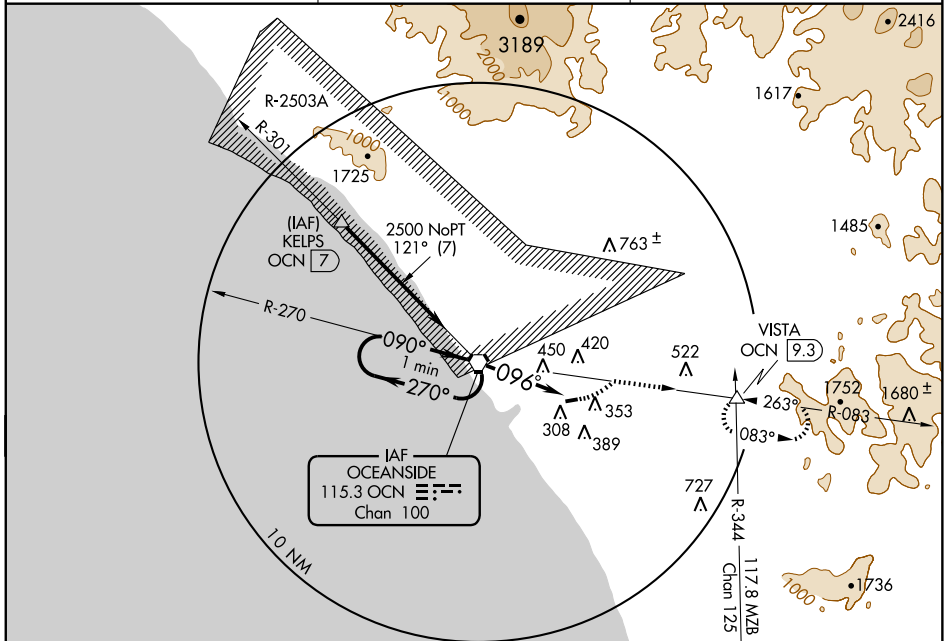
	2000 OCICE 242°		OCNH 3.5 NM from FOGVA 1200 1800 2400 247° 2800 2900 Procedure Turn NA	
	FOGVA 3.5 NM 1.5 NM 2 NM 2 NM 1 NM			
CATEGORY	A		B	
S-24	740-1 712 (800-1)		NA	
CIRCLING	880-1 852 (900-1)		880-1 852 (900-1 1/4)	
			NA	

VORTAC OCN 115.3 Chan 100	APP CRS 096°	Rwy Idg TDZE Apt Elev 28	N/A N/A 28
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VOR-A
OCEANSIDE MUNI (OKB)

MISSED APPROACH: Climbing left turn to 4000 via heading 030° and OCN R-083 to VISTA Int/OCN 9.3 DME and hold.

ASOS 127.8	SOCAL APP CON 127.3 323.0	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 3.4 NM					
CIRCLING	1140-1¼ 1112 (1200-1¼)	1140-1½ 1112 (1200-1½)	NA		Knots	60	90	120	150	180
					Min:Sec	3:24	2:16	1:42	1:21	1:08

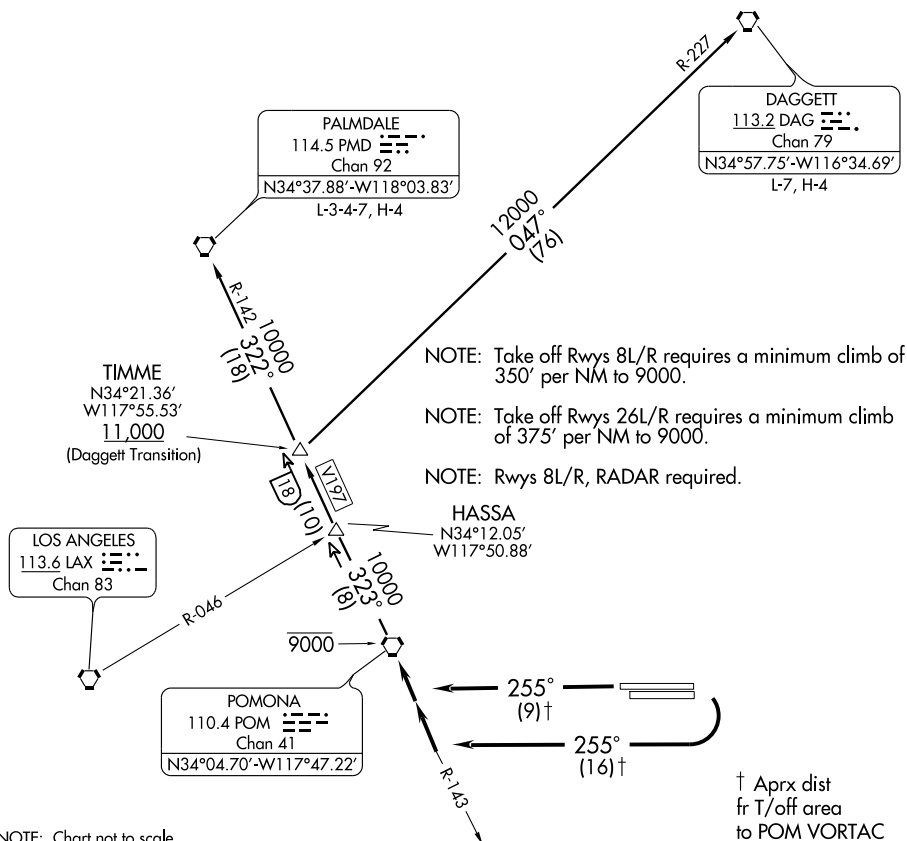


HASSA FOUR DEPARTURE

SL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

ATIS 124.25
CLNC DEL 118.1
SOCAL DEP CON
125.5 349.0



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8L/R: Turn right heading 255° to intercept and proceed via POM R-143 to POM VORTAC. Thence....

TAKE-OFF RUNWAYS 26L/R: Fly heading 255° to intercept and proceed via POM R-143 to POM VORTAC. Thence....

....via (transition) or (assigned route). Cross POM VORTAC at or below 9000'.

Expect filed altitude 10 minutes after departure.

DAGGETT TRANSITION (HASSA4.DAG): From over POM VORTAC via POM R-323 and DAG R-227 to DAG VORTAC.

PALMDALE TRANSITION (HASSA4.PMD): From over PMD VORTAC via POM R-323 and PMD R-142 to PMD VORTAC.

MISSED APPROACH: Climb to 1600 then climbing right turn to 4100 direct PDZ VORTAC and hold.

[illegible]

Remain within 10 NM

NAROD INT

* 4100

256°

076°

2800

* Maintain 5800 or above until established outbound for PT.

MM

5 NM

0.6

CATEGORY	A	B	C	D
S-ILS 8L	# 1144/24 200 (200-½)			
S-LOC 8L	1340/24 396 (400-½)			1340/40 396 (400-¾)
SIDESTEP RWY 8R	1340-1 404 (400-1)	1340-1½ 404 (400-1½)	1340-2 404 (400-2)	
CIRCLING	1380-1 436 (500-1)	1400-1 456 (500-1)	1400-1½ 456 (500-1½)	1500-2 556 (600-2)

ELEV 944

1104±

1100

982

976 TDZE

944

1000±

1021

12197 X 150

10200 X 150

TDZE 1011

936

1039

991

076° 5.6 NM from FAF

TDZ/CL Rwys 8L and 26L

HIRL Rwys 8L-26R and 8R-26L

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

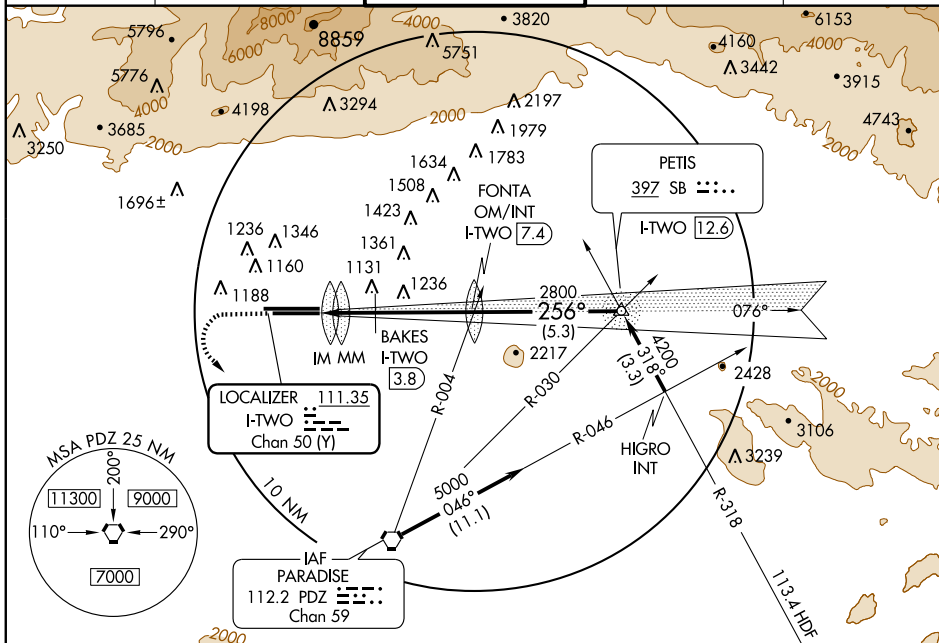
LOC/DME I-TWO 111.35 Chan 50(Y)	APP CRS 256°	Rwy Idg 26L TDZE Apt Elev	10200 926 944	Rwy Idg 26R TDZE Apt Elev	12197 932 944
---	------------------------	---------------------------------	--	---------------------------------	--

ILS or LOC RWY 26L

ONTARIO INTL (ONT)

⚠ Circling NA north of Rwy 8L-26R. SIDESTEP 26R: Inoperative table does not apply to Cats. A and B.	ALSF-2 Rwy 26L 	MALSR Rwy 26R 	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC.
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ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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ELEV 944	1700	4000	PDZ 112.2	FONTA OM/INT I-TWO 7.4	PETIS NDB/INT I-TWO 12.6	Procedure Turn NA
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LOC/DME I-ONT 109.7 Chan 34	APP CRS 256°	Rwy Idg 26R 12197 TDZE 932 Apt Elev 944	Rwy Idg 26L 10200 TDZE 926 Apt Elev 944
---	------------------------	--	--

ILS or LOC RWY 26R
ONTARIO INTL (ONT)

	Circling NA north of Rwy 8L-26R Inoperative table does not apply to sidestep Rwy 26L Cats A and B.		ALSF-2 Rwy 26L 	MALSR Rwy 26R 	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC and hold.	
	ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775		GND CON 121.9 257.8	CLNC DEL 118.1

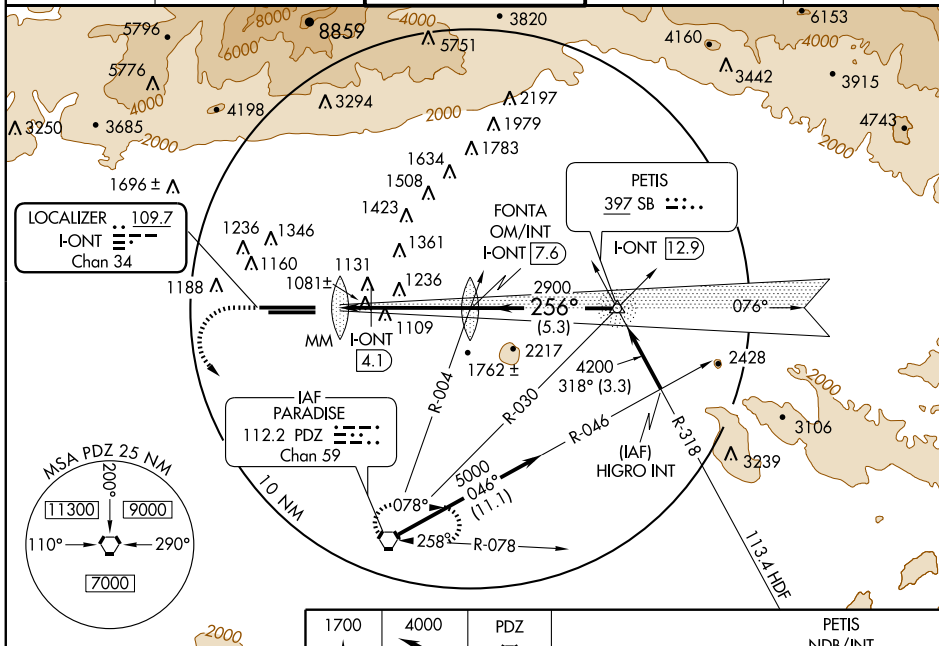


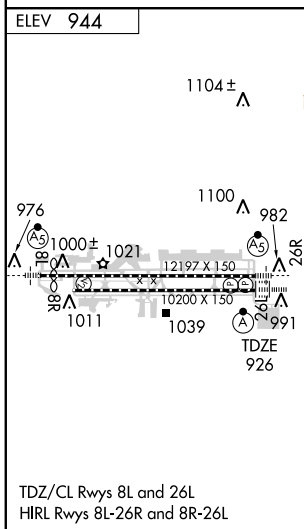
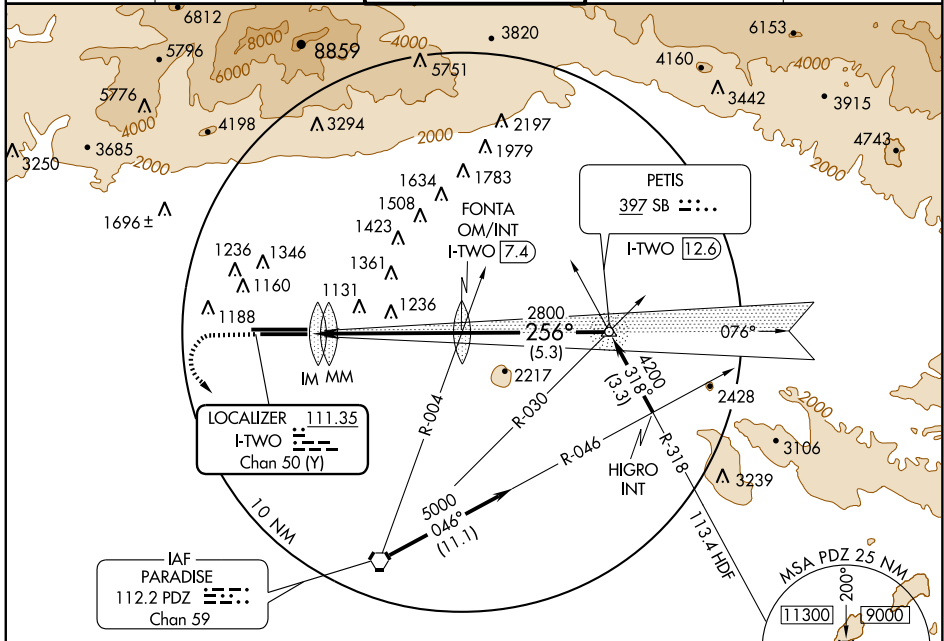
Diagram Labels:

- ELEV 944
- 1104 ±
- 256° 5.5 NM from FAF
- 1100
- 982
- 976
- 1000 ±
- 1021
- 12197 X 150
- 12020 X 150
- 1011
- 1039
- 991
- 926
- 932
- 936
- 940
- 944
- 948
- 952
- 956
- 960
- 964
- 968
- 972
- 976
- 980
- 984
- 988
- 992
- 996
- 1000
- 1004
- 1008
- 1012
- 1016
- 1020
- 1024
- 1028
- 1032
- 1036
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- 242

LOC/DME I-TWO 111.35 Chan 50(Y)	APP CRS 256°	Rwy Idg TDZE Apt Elev 10200 926 944
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ILS RWY 26L (CAT II) ONTARIO INTL (ONT)

⚠ Circling NA north of Rwy 8L-26R.		ALSF-2 	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC.	
ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1



1700 ↑		4000 ↖		PDZ 112.2 		Procedure Turn NA		FONTA OM/INT I-TWO [7.4]		PETIS NDB/INT I-TWO [12.6]	
926 MSL		DH RA 103 IM		DH RA 147		MM		2767 256° 2800		4200	
1160'		748'		954'		1057'		5 NM		5.3 NM	
CATEGORY		A		B		C		D			
S-ILS 26L				RA 147/16		150		DA 1076			
S-ILS 26L				RA 103/12		100		DA 1026			
CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED											

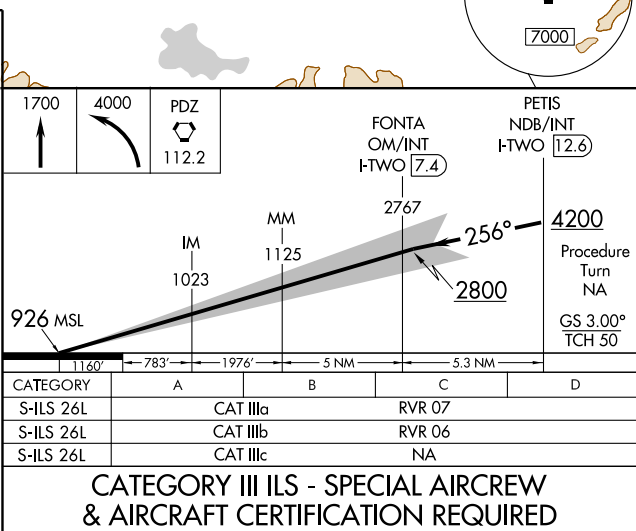
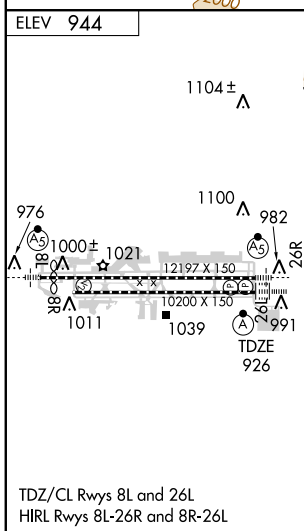
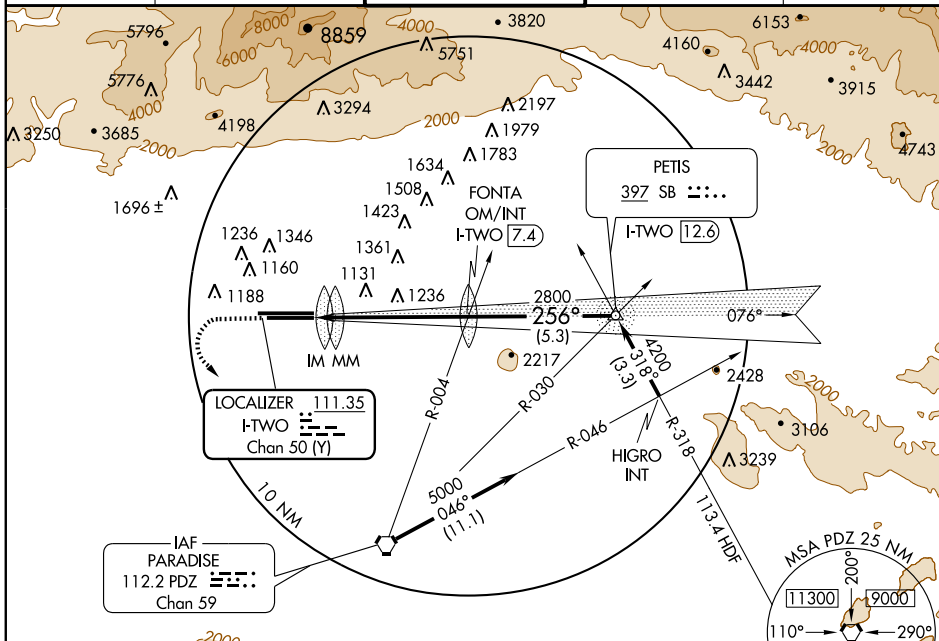
LOC/DME I-TWO 111.35 Chan 50(Y)	APP CRS 256°	Rwy Idg TDZE Apt Elev	10200 926 944
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ILS RWY 26L (CAT III)

ONTARIO INTL (ONT)

Circling NA north of Rwy 8L-26R.	ALSF-2 	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC.
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ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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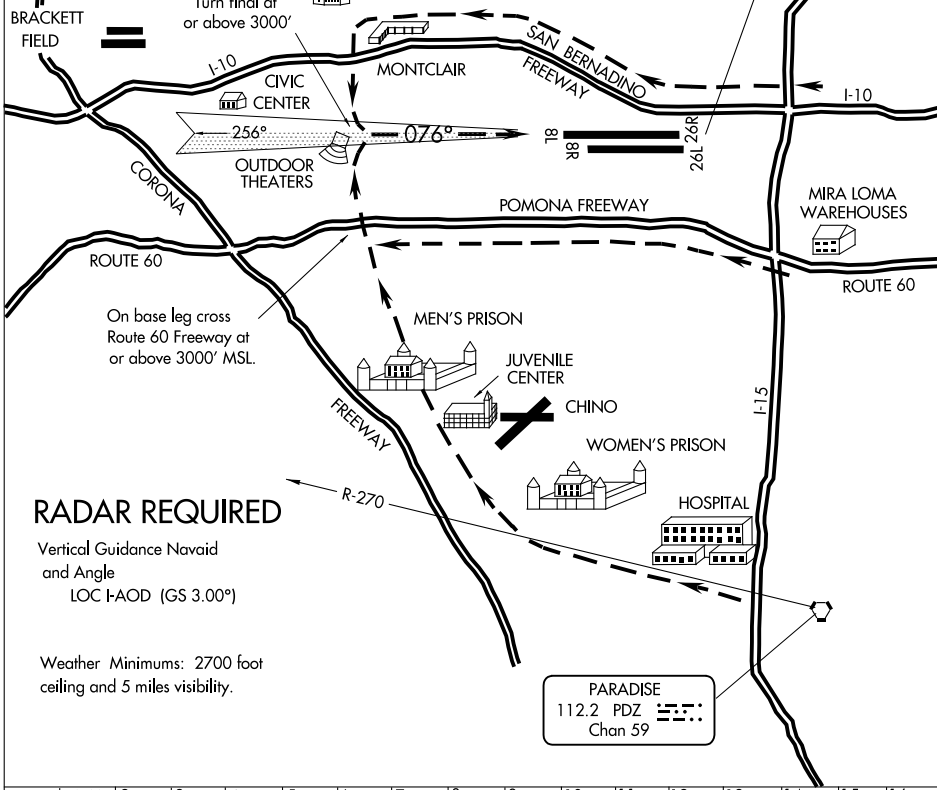


INTERSTATE VISUAL RWY 8L

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

ATIS 124.25
SOCAL APP CON
127.25 318.2
ONTARIO TOWER
120.6 360.775
GND CON
121.9 257.8
CLNC DEL
118.1



RADAR REQUIRED

Vertical Guidance Navaid
and Angle
LOC I-AOD (GS 3.00°)

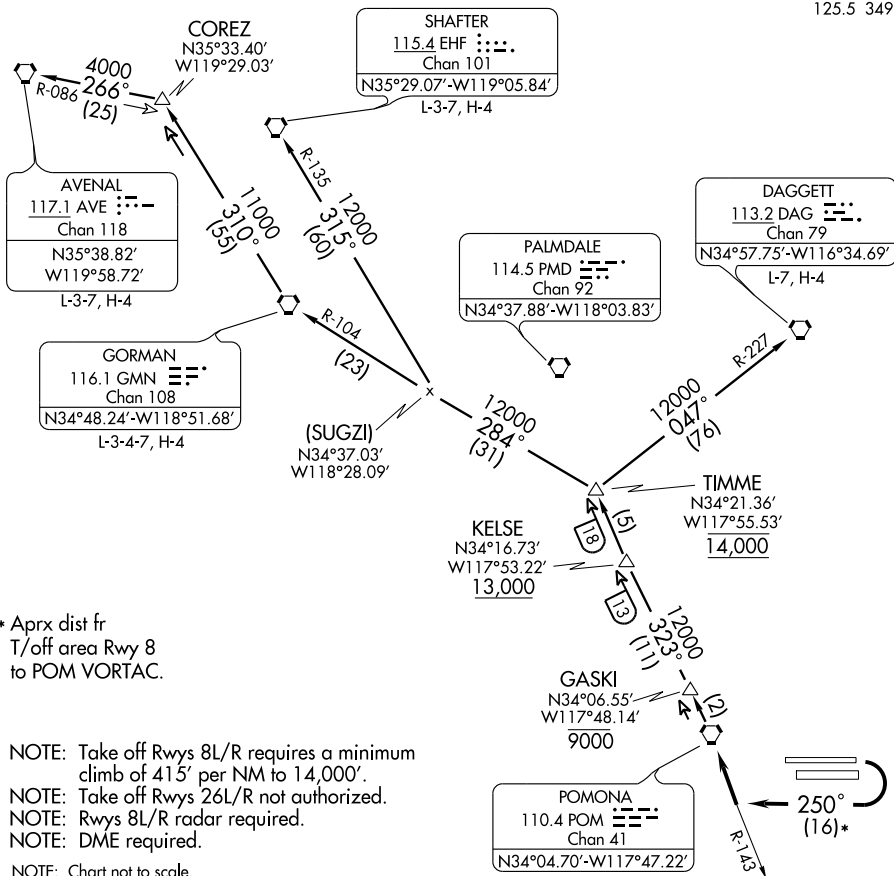
Weather Minimums: 2700 foot
ceiling and 5 miles visibility.

INTERSTATE VISUAL RWY 8L

When Visual Approaches to Runway 8L are in progress, clearances will be given utilizing in part the following phraseology:

"(IDENT) CLEARED FOR INTERSTATE VISUAL
RUNWAY 8L APPROACH."

ATIS 124.25
CLNC DEL 118.1
SOCAL DEP CON
125.5 349.0



SW-3, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8L/R: Turn right heading 250° to intercept and proceed via POM R-143 to POM VORTAC. Cross GASKI at or below 9000, cross KELSE at or above 13,000, cross TIMME at 14,000. Then via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

AVENAL TRANSITION (ONT2.AVE):

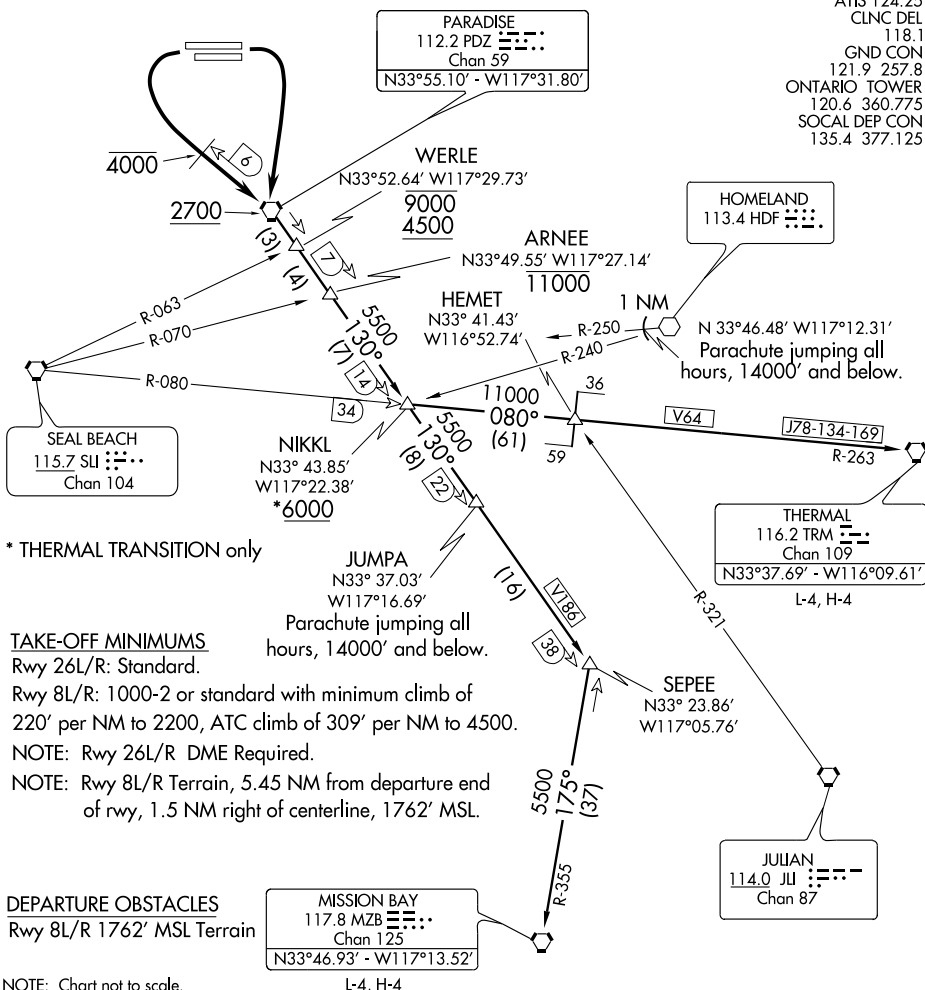
DAGGETT TRANSITION (ONT2.DAG):

GORMAN TRANSITION (ONT2.GMN):

SHAFTER TRANSITION (ONT2.EHF):



ATIS	124.25
CLNC DEL	118.1
GND CON	121.9 257.8
ONTARIO TOWER	120.6 360.775
SOCAL DEP CON	135.4 377.125



SW-3. 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 8L/R: Climbing right turn direct PDZ VORTAC. Thence...

TAKE-OFF RWY 26L/R: Climbing left turn direct PDZ VORTAC, cross 6 DME northwest of PDZ VORTAC at or below 4000'. Thence...

...via (assigned transition) or (assigned route). Cross PDZ VORTAC at or above 2700', expect filed altitude ten minutes after departure.

MISSION BAY TRANSITION (PRDO7.MZB): From over PDZ VORTAC via PDZ R-130 and MZB R-355 to MZB VORTAC.

THERMAL TRANSITION (PRDO7.TRM): From over PDZ VORTAC via PDZ R-130, SI R-080 and TRM R-263 to TRM VORTAC.

WAAS CH 70329 W08A	APP CRS 076°	Rwy Idg 10200 TDZE 936 Apt Elev 944
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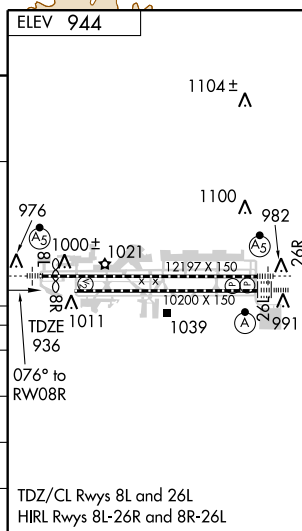
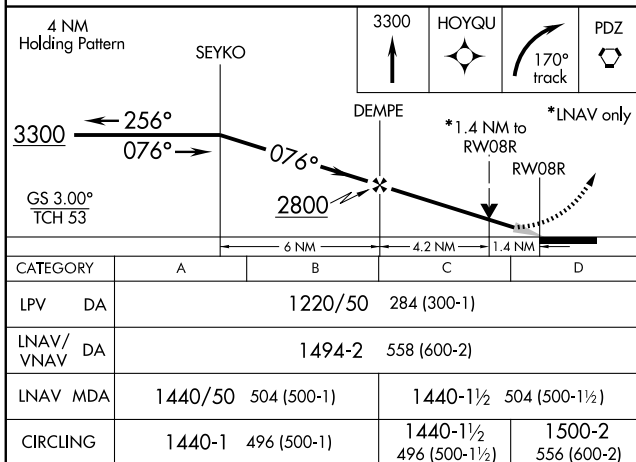
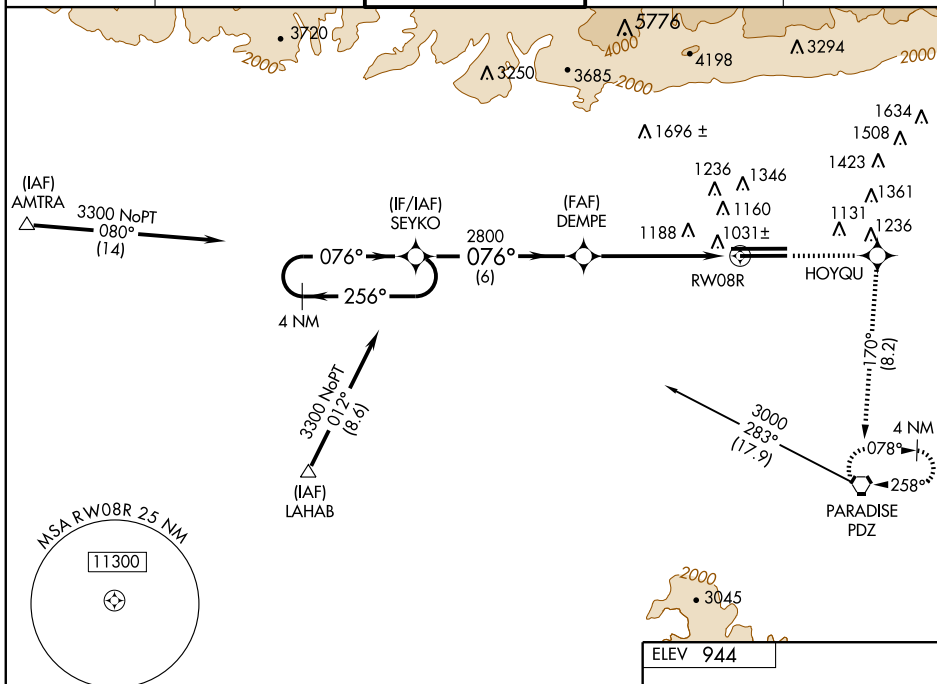
RNAV (GPS) RWY 8R
ONTARIO INTL (ONT)

T Circling NA north of Rwy 8L-26R.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3300 direct HOYQU and turn right via 170° track to PDZ VORTAC and hold.

ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL
124.25	127.25 318.2	120.6 360.775	121.9 257.8	118.1



WAAS CH 45807 W08A	APP CRS 076°	Rwy Idg 11200 TDZE 944 Apt Elev 944
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RNAV (GPS) Y RWY 8L

ONTARIO INTL (ONT)

⚠ DME/DME RNP -0.3 NA. Circling NA north of Rwy 8L-26R.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
 VDP and Baro-VNAV NA when using Chino altimeter setting.
 When local altimeter setting not received, use Chino altimeter setting and increase all DAs/MDAs 60 feet and all visibilities ½ mile.
 For inoperative MALSR increase LPV visibility all Cats to RVR 6000.

MALSR



MISSED APPROACH: Climb to 4400 direct CABUB and via 166° track to PDZ VORTAC and hold, continue climb-in-hold to 4400.

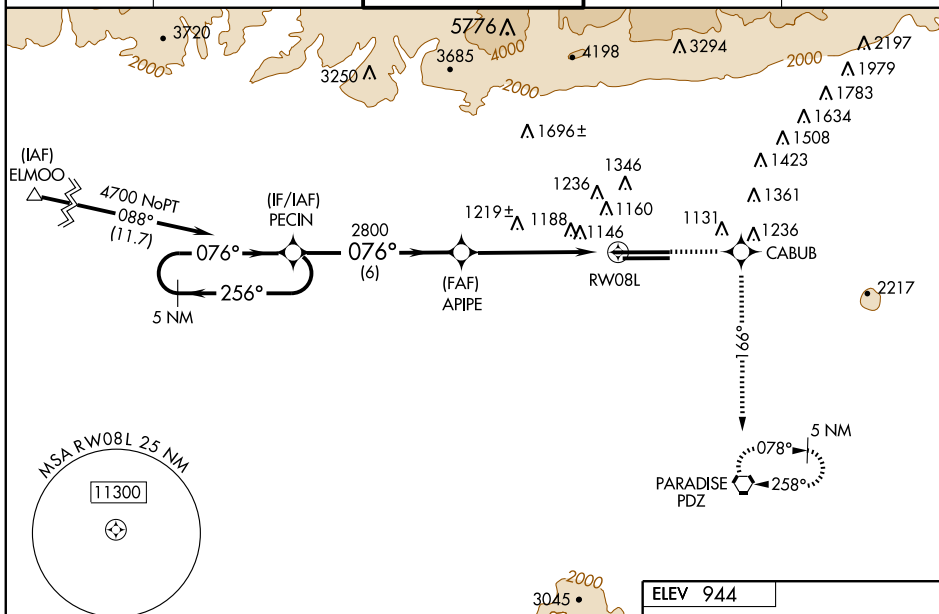
ATIS
124.25

SOCAL APP CON
127.25 318.2

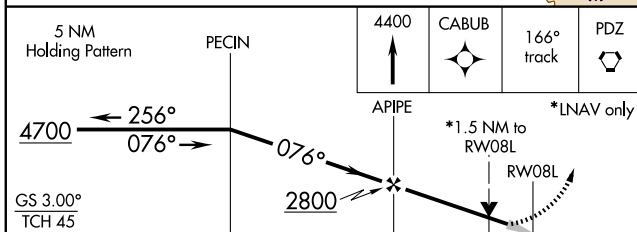
ONTARIO TOWER
120.6 360.775

GND CON
121.9 257.8

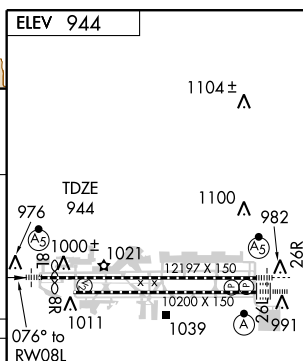
CLNC DEL
118.1



Procedure NA for arrivals at ELMOO via V186 westbound.



		6 NM		4.1 NM		1.5	
CATEGORY	A	B	C		D		
LPV DA	1266/40 322 (400-¾)						
LNAV/VNAV DA	1520-1½ 576 (600-1½)						
LNAV MDA	1480/24 536 (600-½)		1480/50 536 (600-1)		1480/60 536 (600-1¼)		
CIRCLING	1480-1 536 (600-1)		1480-1½ 536 (600-1½)		1500-2 556 (600-2)		



TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

WAAS CH 90407 W26B	APP CRS 256°	Rwy Idg 10200 TDZE 926 Apt Elev 944
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RNAV (GPS) Y RWY 26L

ONTARIO INTL (ONT)

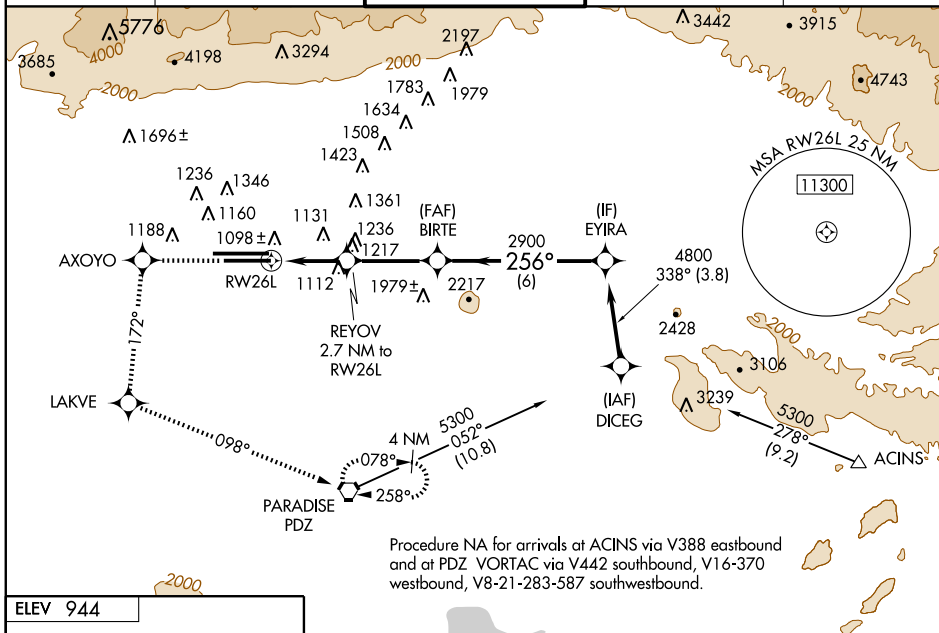
- ▼** DME/DME RNP -0.3 NA. Circling NA north of Rwy 8L-26R.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
Baro-VNAV and VDP NA when using Chino altimeter setting.
When local altimeter setting not received, use Chino altimeter setting and increase all DAs/MDAs 60 feet and all visibilities ½ mile.

ALSF-2

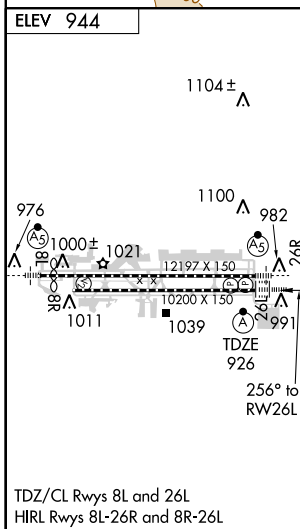


MISSED APPROACH: Climb to 4000 direct AXOYO and via 172° track to LAKVE and via 098° track to PDZ VORTAC and hold.

ATIS 124.25	SOCAL APP CON 127,25 318,2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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Procedure NA for arrivals at ACINS via V388 eastbound and at PDZ VORTAC via V442 southbound, V16-370 westbound, V8-21-283-587 southwestbound.



* LNAV only	REYOV 2.7 NM to RW26L * 1.4 NM to RW26L <u>1820*</u> Procedure Turn NA GS 3.00° TCH 50
CATEGORY	A B C D
LPV DA	1176/24 250 (300-½)
LNAV/VNAV DA	1405/60 479 (500-1¼)
LNAV MDA	1420/24 494 (500-½) 1420/40 494 (500-¾) 1420/50 494 (500-1)
CIRCLING	1420-1 476 (500-1) 1420-1½ 476 (500-1½) 1500-2 556 (600-2)

WAAS CH 53406 W26A	APP CRS 256°	Rwy Idg 12197 TDZE 932 Apt Elev 944
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RNAV (GPS) Y RWY 26R

ONTARIO INTL (ONT)

▽ When local altimeter setting not received, use China altimeter setting and increase all DAs/MDAs 60 feet and all visibilities $\frac{1}{2}$ mile.
△ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
 VDP and Baro-VNAV NA when using China altimeter setting.
 DME/DME RNP-0.3 NA. Circling NA north of Rwy 8L-26R.

MALSR



MISSED APPROACH: Climb to 4000 direct to EGYAZ and via 171° track to LAKVE and via 098° track to PDZ VORTAC and hold.

ATIS

124.25

SOCAL APP CON

127.25 318.2

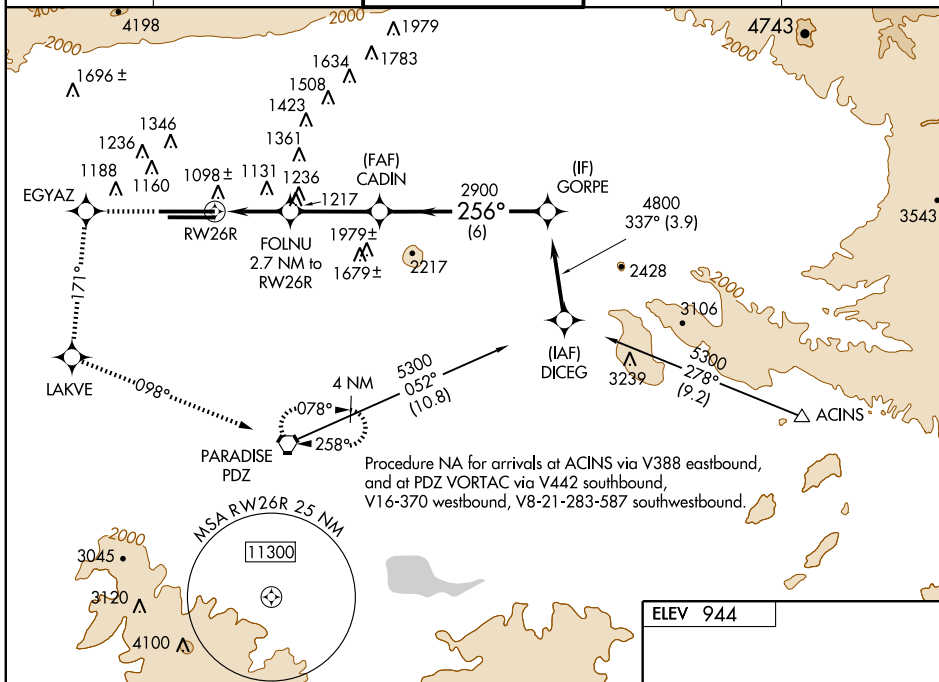
ONTARIO TOWER

120.6 360.775

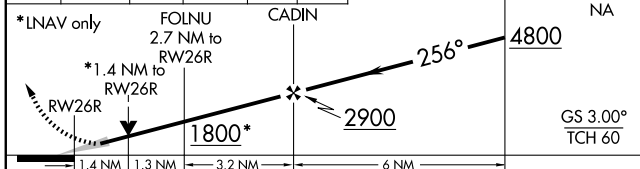
GND CON

121.9 257.8

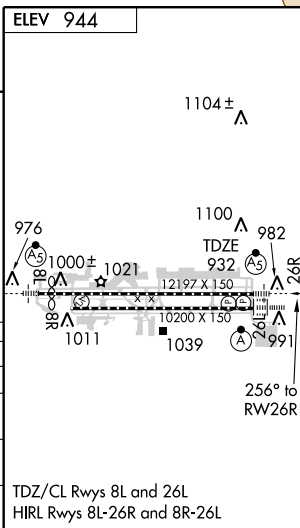
CLNC DEL

118.1

4000	EGYAZ	LAKVE	PDZ	VGSI and RNAV glidepath not coincident.
↑	171° track	098° track		



CATEGORY	A	B	C	D
LPV DA	1182/24		250 (300- $\frac{1}{2}$)	
LNAV/VNAV DA	1406/50		474 (500-1)	
LNAV MDA	1440/24 508 (500- $\frac{1}{2}$)		1440/50 508 (500-1)	
CIRCLING	1440-1 496 (500-1)		1440-1 $\frac{1}{2}$ 496 (500-1 $\frac{1}{2}$)	
			1500-2 556 (600-2)	



RNAV (RNP) Z RWY 8L

ONTARIO INTL (ONT)

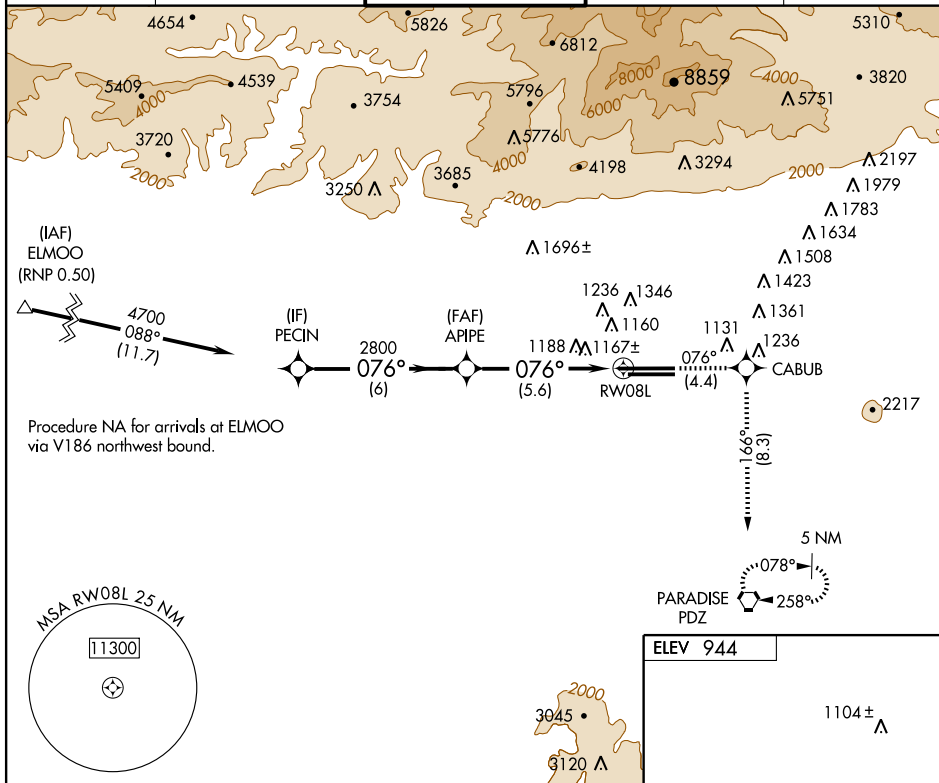
GPS required.
For uncompensated Baro-VNAV systems, LNAV/VNAV, procedure NA below -1°C (31°F) or above 47°C (116°F). Inoperative table does not apply.

MALSR

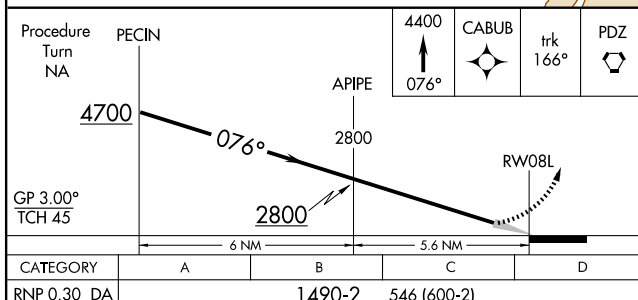


MISSED APPROACH: Climb to 4400 via track 076° to CABUB and via track 166° to PDZ VORTAC and hold, continue climb-in-hold to 4400.

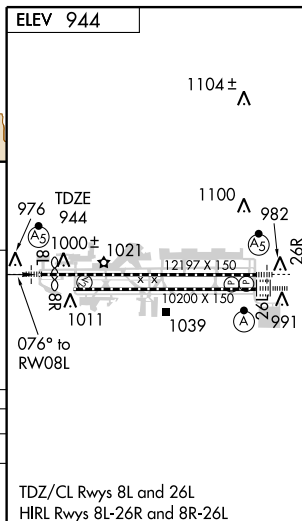
ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL
124.25	127.25 318.2	120.6 360.775	121.9 257.8	118.1

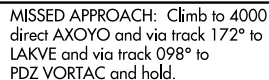


Procedure NA for arrivals at ELMOO via V186 northwest bound.

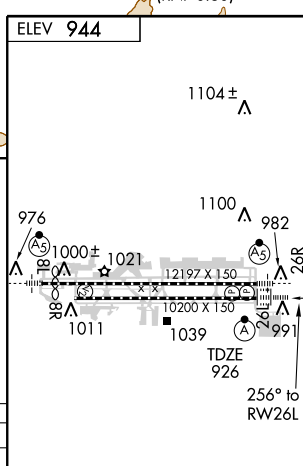
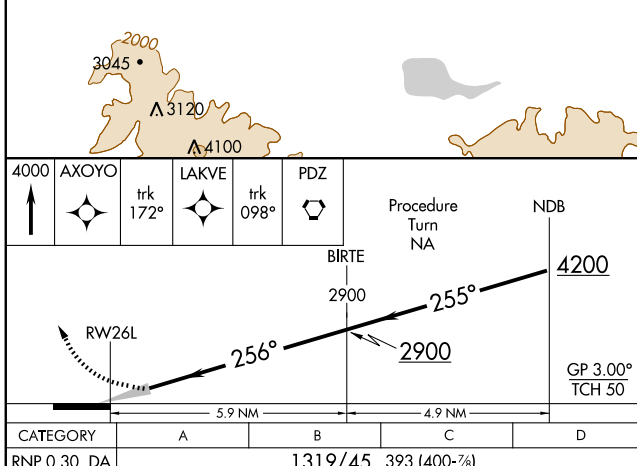
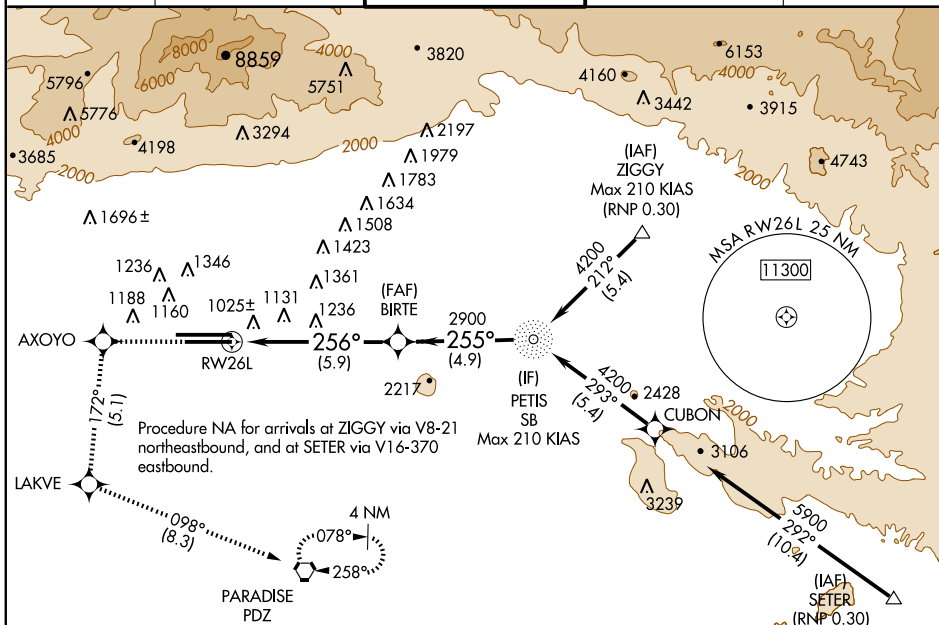


**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



RNAV (RNP) Z RWY 26L
ONTARIO INTL (ONT)

CLNC DEL
118.1



**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

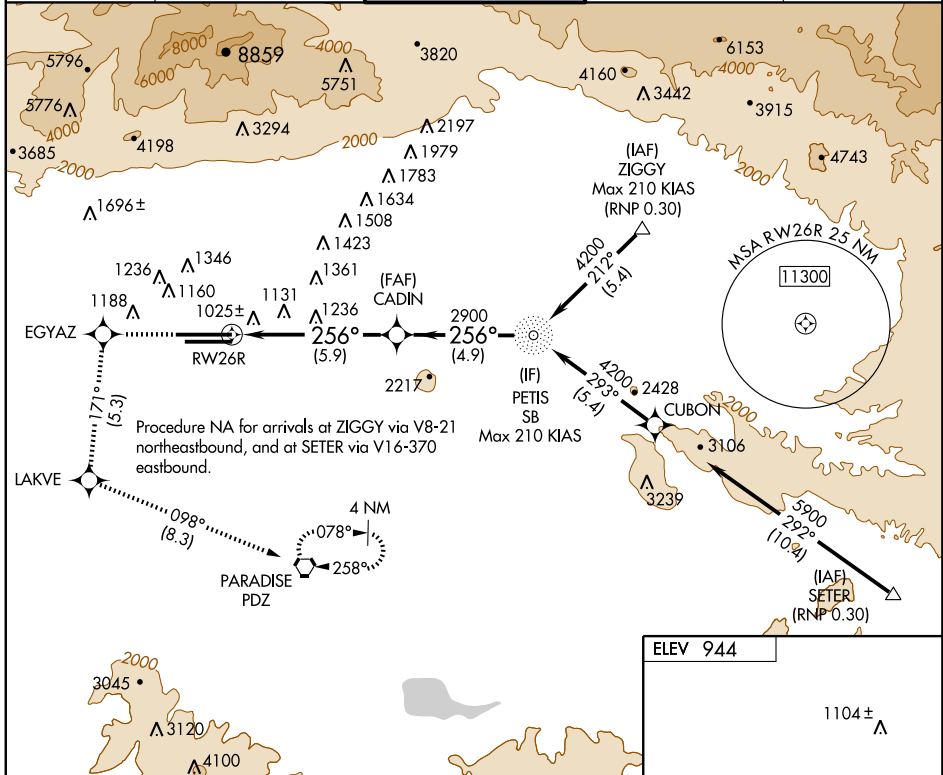
APP CRS	Rwy Idg	12197
256°	TDZE	932
	Apt Elev	944

RNAV (RNP) Z RWY 26R

ONTARIO INTL (ONT)

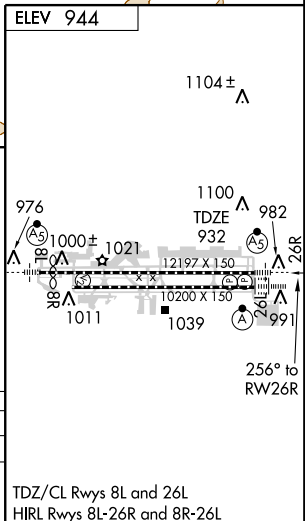
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -1°C (28°F) or above 47°C (116°F). For inoperative MALSR increase RNP 0.30 visibility to RVR 6000.	MALSR	MISSED APPROACH: Climb to 4000 direct EGYAZ and via track 171° to LAKVE and via track 098° to PDZ VORTAC and hold.
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ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL
124.25	127.25 318.2	120.6 360.775	121.9 257.8	118.1



4000	EGYAZ	trk 171°	LAKVE	trk 098°	PDZ	VGSI and RNAV glidepath not coincident.
						Procedure Turn NA
						NDB
						GP 3.00° TCH 60
						5.9 NM
						4.9 NM
CATEGORY	A	B	C	D		
RNP 0.30 DA	1324/45	392 (400-7%)				

SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED

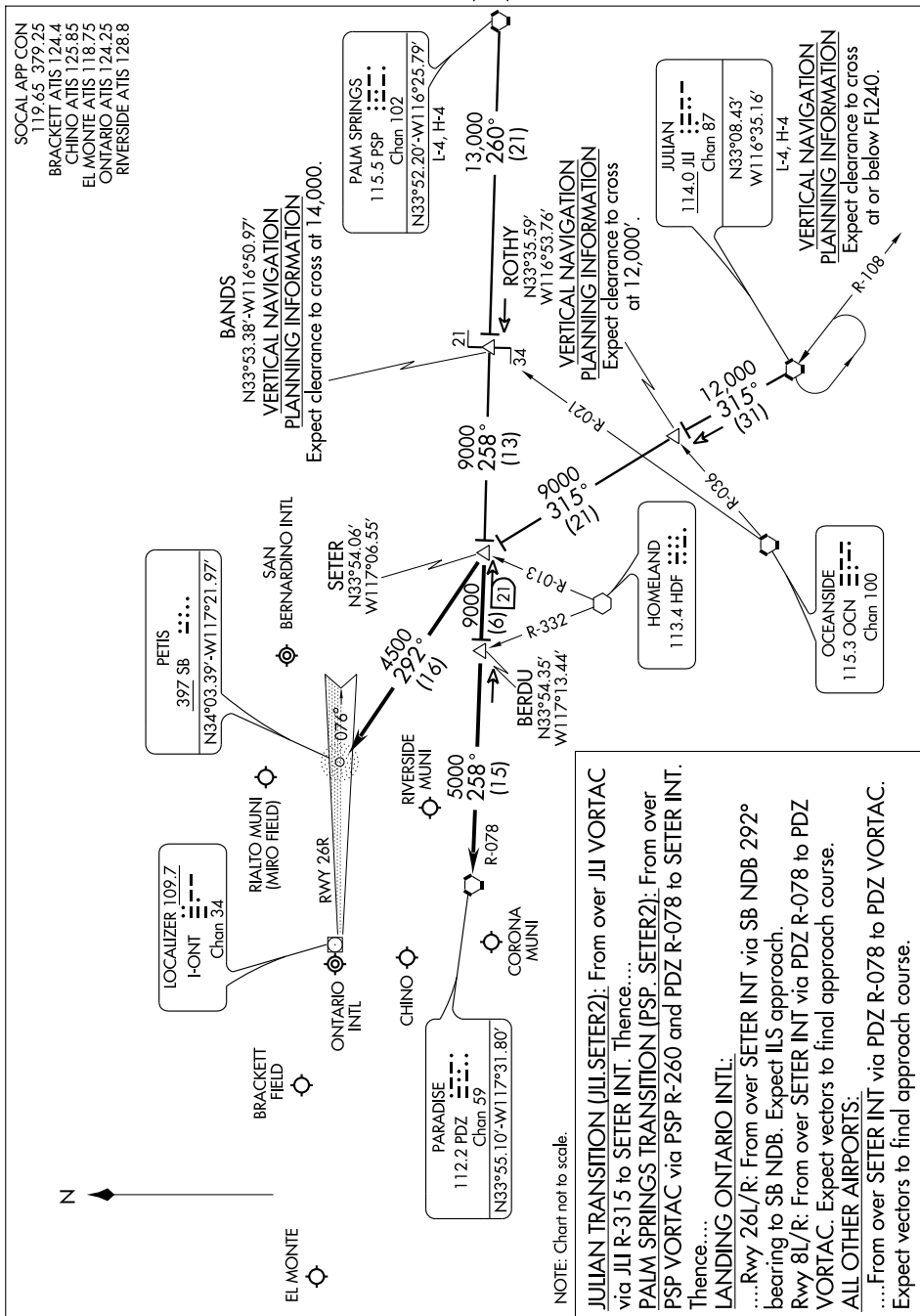


TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

SETER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



VOR/DME RWY 8R

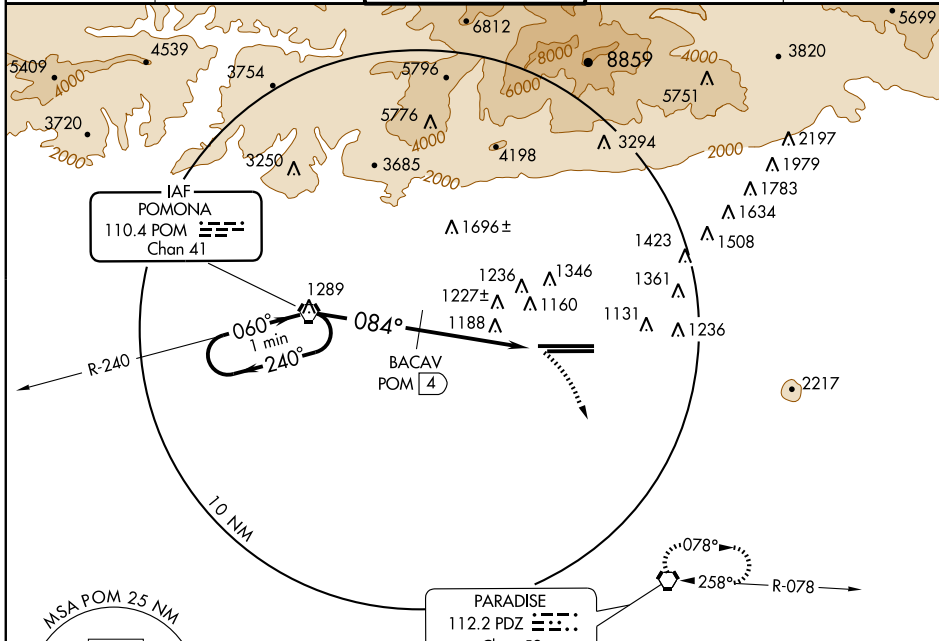
ONTARIO INTL (ONT)

VORTAC POM 110.4 Chan 41	APP CRS 084°	Rwy Idg 10200 TDZE 936 Apt Elev 944
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Circling NA north of Rwy 8L-26R.

MISSED APPROACH: Climb to 1600 then climbing right turn to 4000 direct PDZ VORTAC and hold.

ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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One Minute Holding Pattern VORTAC BACAV POM (4) POM (7.3) POM (8.6) 1600 4000 PDZ 112.2 4000 ← 240° 060° → 084° 2600 3.28° TCH 55 4 NM 3.3 NM 1.3				
CATEGORY	A	B	C	D
S-8R	1480/50	544 (600-1)	1480-1½ 544 (600-1½)	1480-1¾ 544 (600-1¾)
CIRCLING	1480-1	536 (600-1)	1480-1½ 536 (600-1½)	1500-2 556 (600-2)

TDZ/CL Rwy 8L and 26L

HIRL Rwy 8L-26R and 8R-26L

ZIGGY FOUR ARRIVAL

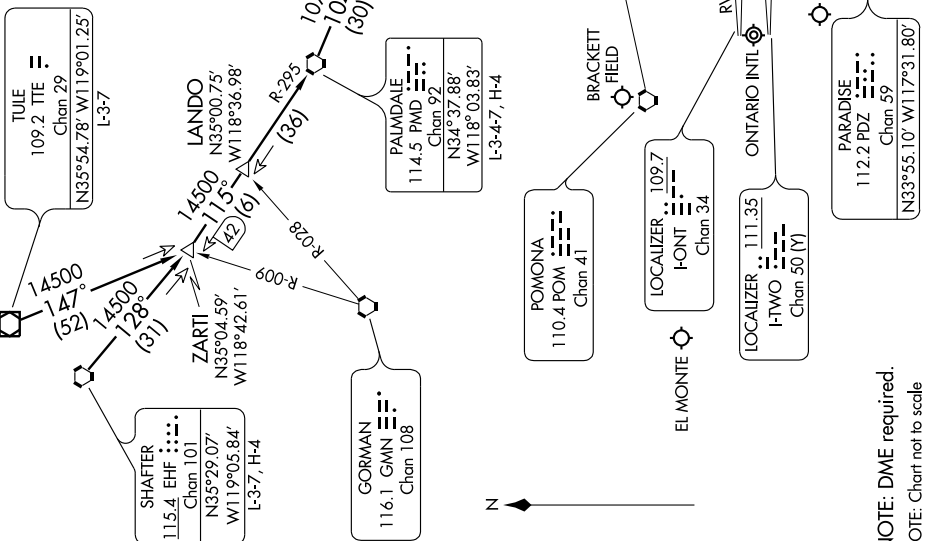
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

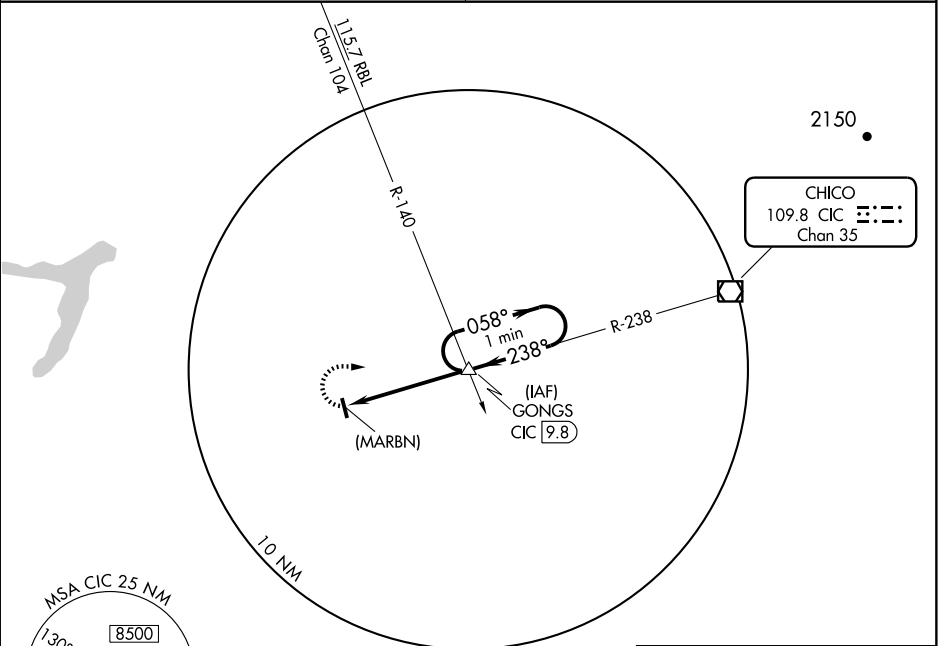
VOR/DME CIC	APP CRS	Rwy Idg TDZE	N/A
109.8	238°		N/A
Chan 35		Apt Elev	215

VOR or GPS-A

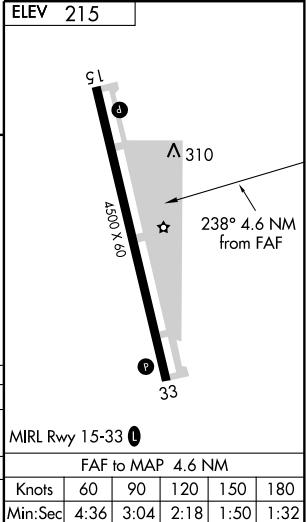
ORLAND/ HAIGH FIELD (037)

NA Use Chico altimeter setting, when not received, use Redding altimeter setting.	MISSED APPROACH: Climbing right turn to 2500 via CIC R-238 to GONGS INT and hold.
---	--

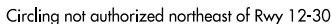
OAKLAND CENTER 132.2 350.3	UNICOM 122.7(CTAF)
--------------------------------------	------------------------------



2500	GONGS	One Minute Holding Pattern	
	GONGS CIC 9.8		
(MARBN) CIC 14.4	238°	058°	2500
4.6 NM			
CATEGORY	A	B	C
CIRCLING	900-1 685 (700-1)	900-2 685 (700-2)	900-2 1/4 685 (700-2 1/4)
REDDING ALTIMETER SETTING MINIMUMS			
CIRCLING	1020-1 805 (900-1)	1020-1 1/4 805 (900-1 1/4)	1020-2 1/2 805 (900-2 1/2)



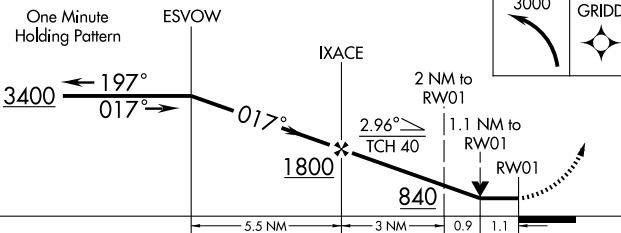
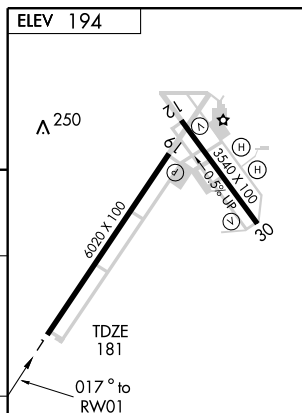
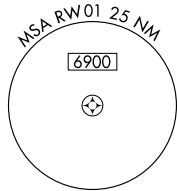
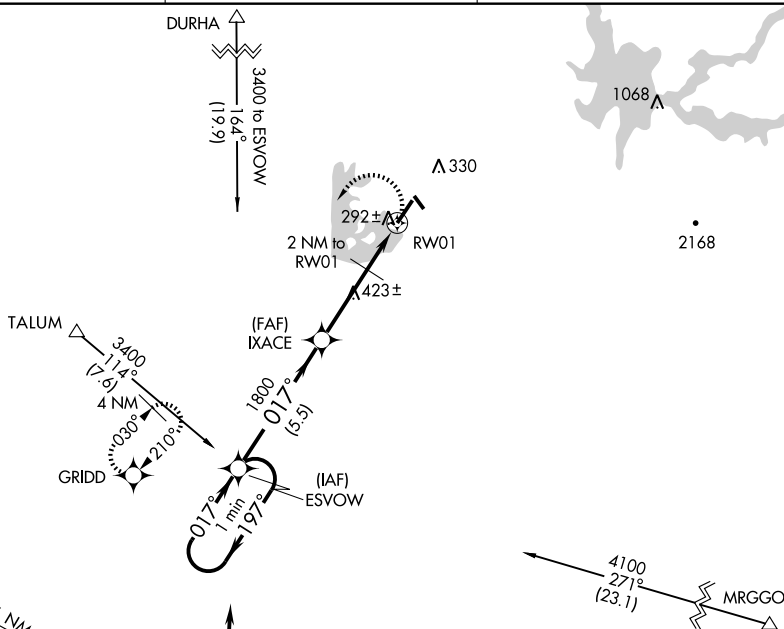
Rwy Idg	6020
TDZE	181
Apt Elev	194



MISSED APPROACH: Climbing left turn to 3000 direct GRIDD WP and hold.

NORCAL APP CON
125.4 259.1

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
S-1	560-1 379 (400-1)			NA
CIRCLING	600-1 406 (500-1)	660-1 466 (500-1)	660-1½ 466 (500-1½)	NA

HIRL Rwy 1-19 and 12-30 **L**

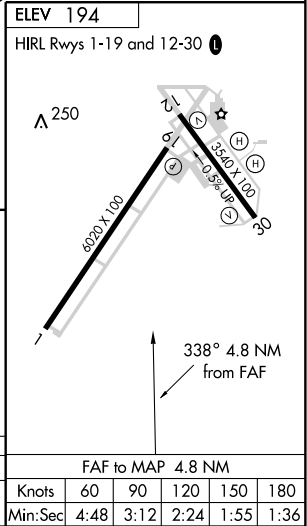
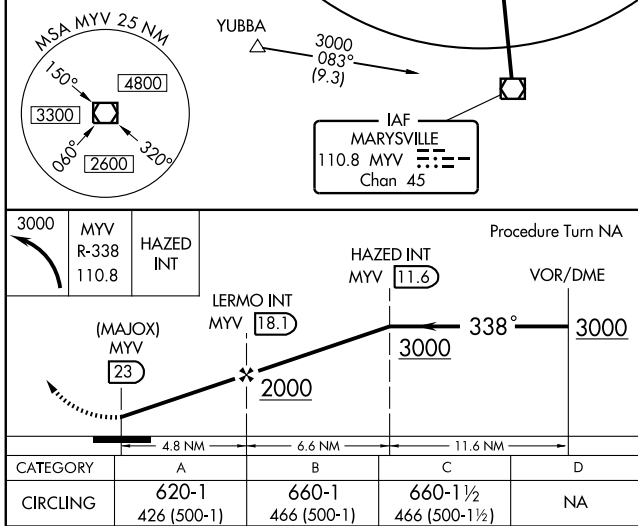
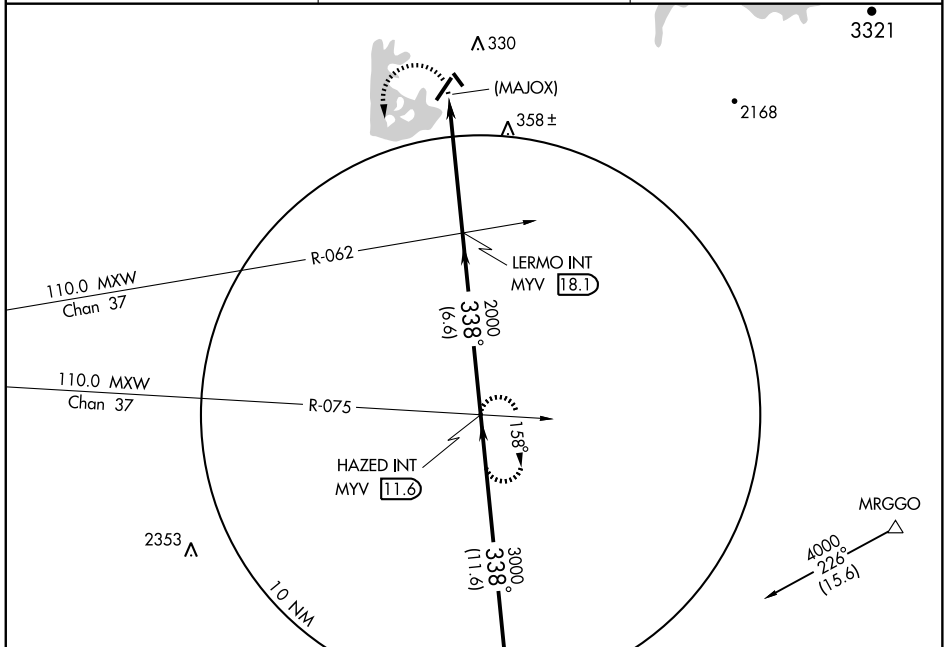
VORTAC MYV 110.8 Chan 45	APP CRS 338°	Rwy Idg TDZE Apt Elev 194	N/A N/A 194
--	------------------------	---	--------------------------

VOR or GPS-A

OROVILLE MUNI (OVE)

NA Circling not authorized Northeast Rwy 12-30	MISSED APPROACH: Climbing left turn to 3000 via MYV R-338 to HAZED Int/MYV 11.6 DME and hold.
---	--

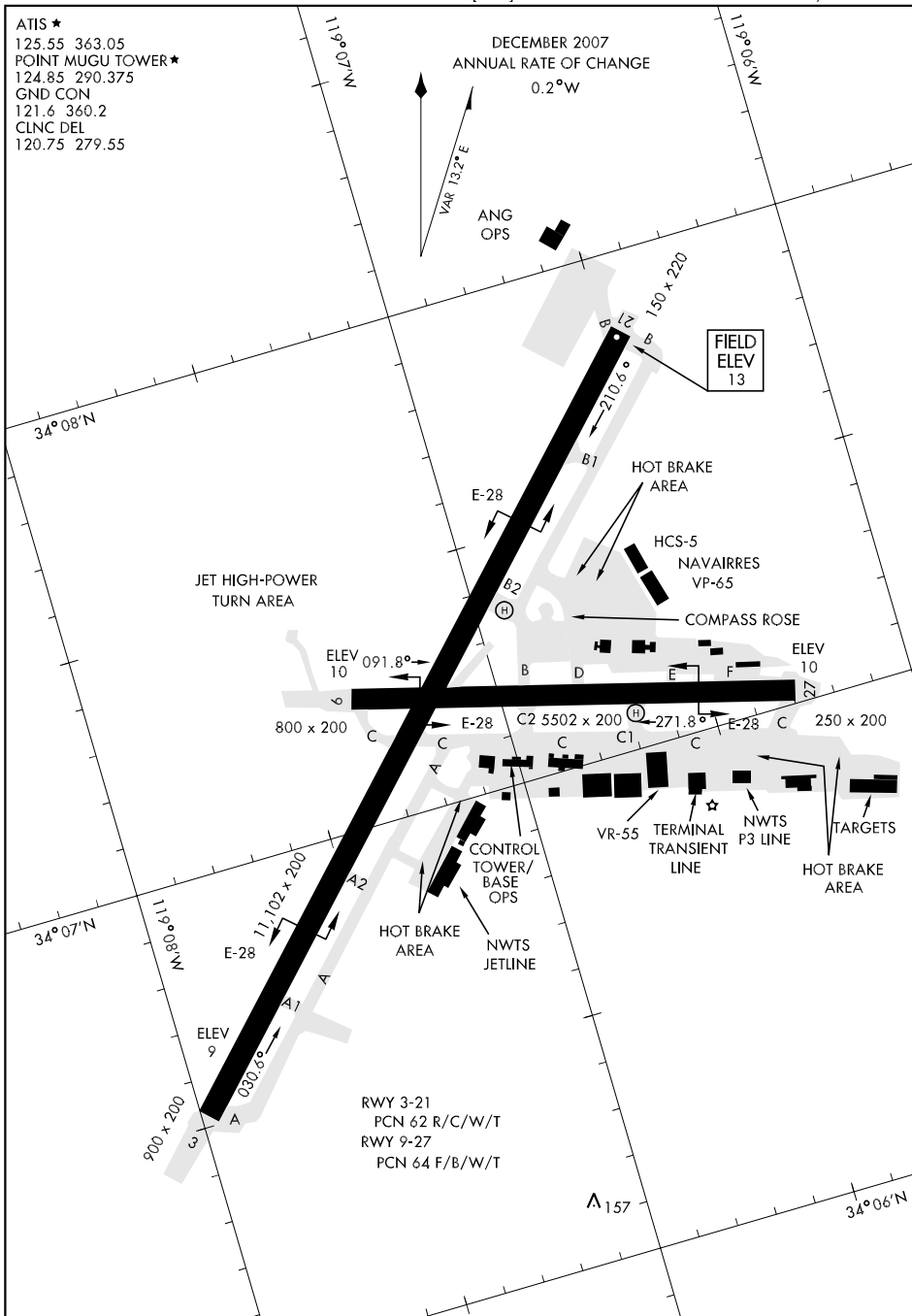
ASOS 121.425	NORCAL APP CON 125.4 259.1	UNICOM 122.8 (CTAF)
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ATIS ★
125.55 363.05
POINT MUGU TOWER ★
124.85 290.375
GND CON
121.6 360.2
CLNC DEL
120.75 279.55

DECEMBER 2007
ANNUAL RATE OF CHANGE
0.2°W

SW-3, 14 JAN 2010 to 11 FEB 2010



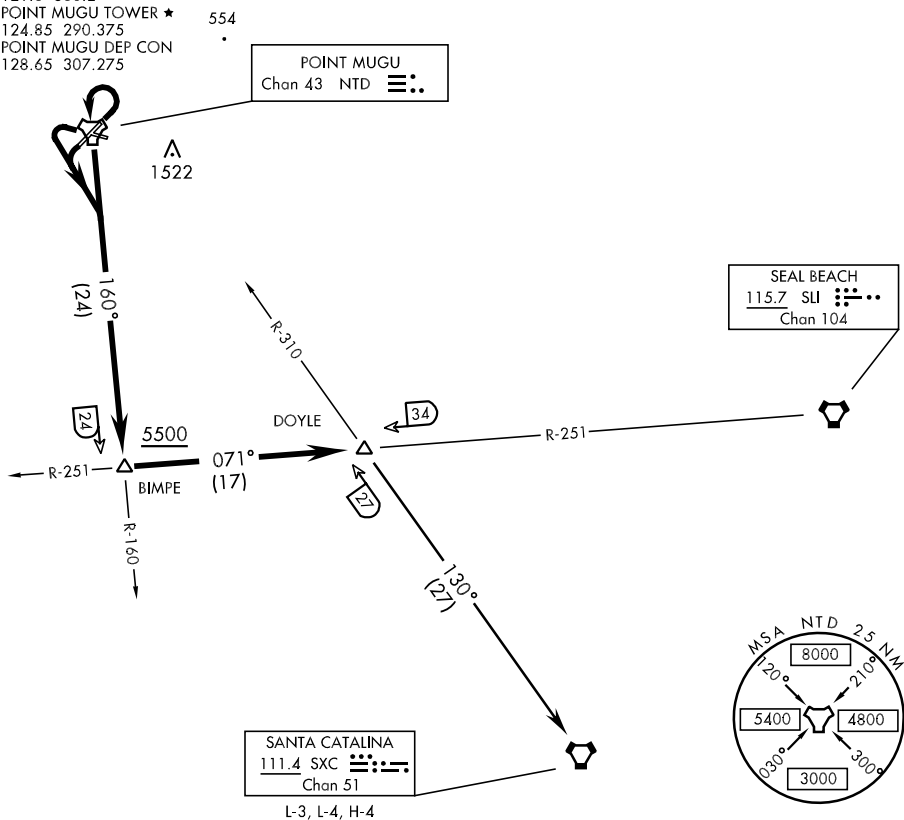
DOYLE-SEVEN DEPARTURE (DOYLE 7 • DOYLE)

OXNARD, CALIFORNIA

ATIS ★ 125.55 363.05
 CLNC DEL
 120.75 279.55
 GND CON
 121.6 360.2
 POINT MUGU TOWER ★
 124.85 290.375
 POINT MUGU DEP CON
 128.65 307.275

SHL-925 [USN]

TACAN REQUIRED



SW-3, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn within 3 DME of NTD TACAN, direct NTD, thence...

TAKE-OFF RWY 21, 27: Left turn, thence...

Intercept NTD R-160 and via NTD R-160 to BIMPE (NTD R-160/24 DME), then via SLI VORTAC R-251 to DOYLE, then via assigned routing. Cross BIMPE at or above 5500.

SANTA CATALINA TRANSITION (DOYLE 7 • SXC): DOYLE (SLI R-251/34 DME) to SANTA CATALINA VORTAC via SXC R-310. Then as filed.

DOYLE-SEVEN DEPARTURE (DOYLE 7 • DOYLE)

OXNARD, CALIFORNIA

FILLMORE TWO DEPARTURE (FIM2 • FIM)

OXNARD, CALIFORNIA

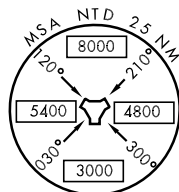
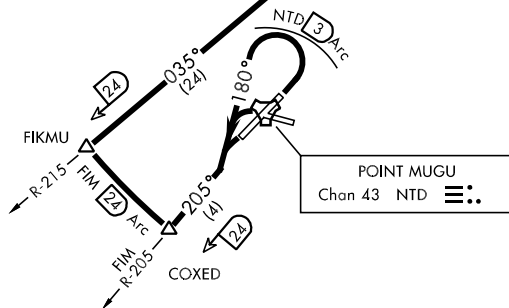
ATIS ★ 125.55 363.05
CLNC DEL
120.75 279.55
GND CON
121.6 360.2
POINT MUGU TOWER ★
124.85 290.375
POINT MUGU DEP CON
128.65 307.275

SHL-925 [USN]

FILLMORE
112.5 FIM 
Chan 72

L-3, L-4, L-7, H-4, A-2

TACAN REQUIRED



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn to heading 180° within 3 DME of NTD TACAN, thence...

TAKE-OFF RWY 21, 27: Left turn, thence...

Intercept FIM VORTAC R-205 to COXED (FIM R-205/24 DME), arc SW of FIM to FIKMU (FIM R-215/24 DME) via FIM 24 mile arc, then via FIM R-215 to FIM, then via assigned routing.

TACAN NTD Chan 43	APCH CRS 213°	Rwy Idg 11,102 TDZE 13 Arpt Elev 13
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JAL-925 [USN]

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

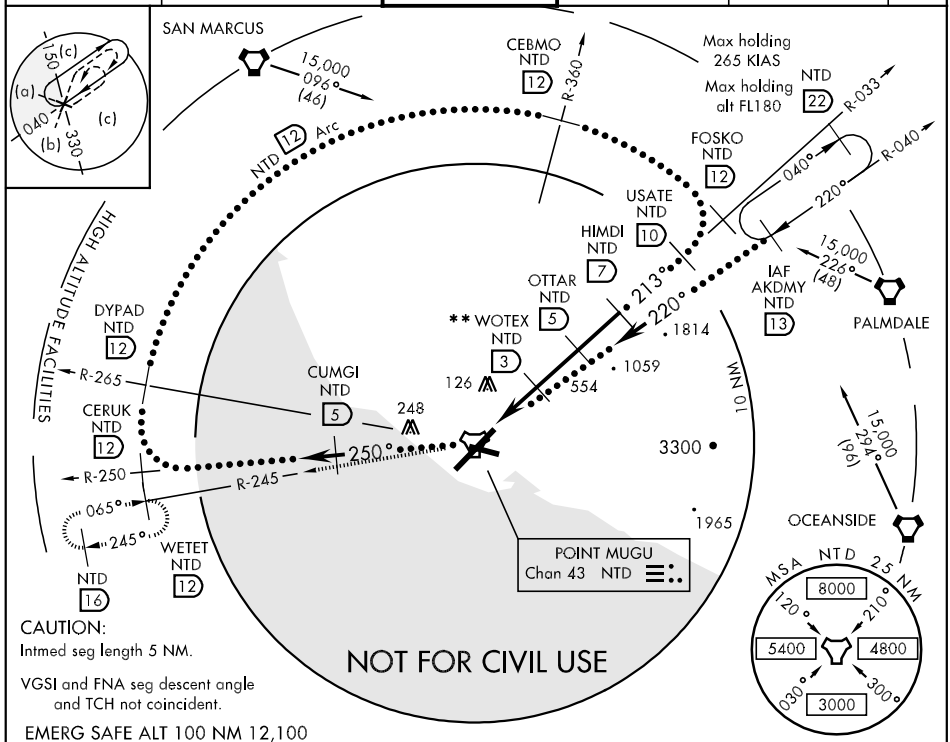
▼ When ALS inop, increase CAT C vis to 1 mile, CAT DE to 1¼ miles.
 *** Alternate MAP, Fly visual to airport.
 *** Circling not authorized E of Rwy 3-21 or when alternate MAP Rwy 21 in use.

MALSR

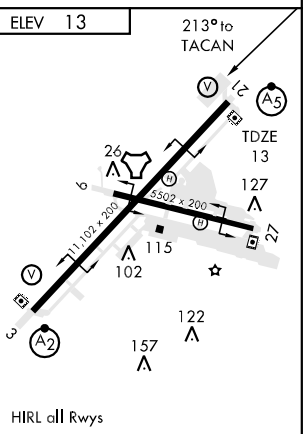


MISSED APPROACH: Climb to 5000 via NTD TACAN R-033 to NTD, then via NTD R-245 to WETET and hold.

ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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AKDMY R-040 13	† Or as assigned.	CUMGI R-250 5	CERUK R-250 12	DYPAD R-265 12	CEBMO R-360 12	FOSKO R-033 12
TACAN						
+15,000	220°	250°	15,000	8000	5000	3900
5000	NTD R-033	** WOTEX 3	OTRAR 7	USATE 10	3300	3.38° TCH 44
NTD R-245 to WETET		ZATPO 1.6	HIMDI 5			
		1.4	2 NM	2 NM		
CATEGORY	C	D	E			
S-21*	380-¾	367	(400-¾)			
S-21**	860-2	847	(900-2)			
CIRCLING***	480-1½ 467 (500-1½)	580-2	567 (600-2)			
S-PAR 21	113-½	100	(100-½) GS 3.00°			



LOC I-RRG 109.3 Chan 30	APCH CRS 210°	Rwy Idg 11,102 TDZE 13 Arpt Elev 13
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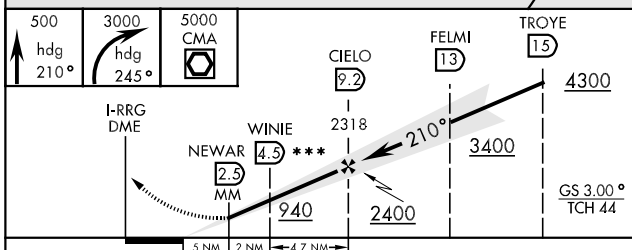
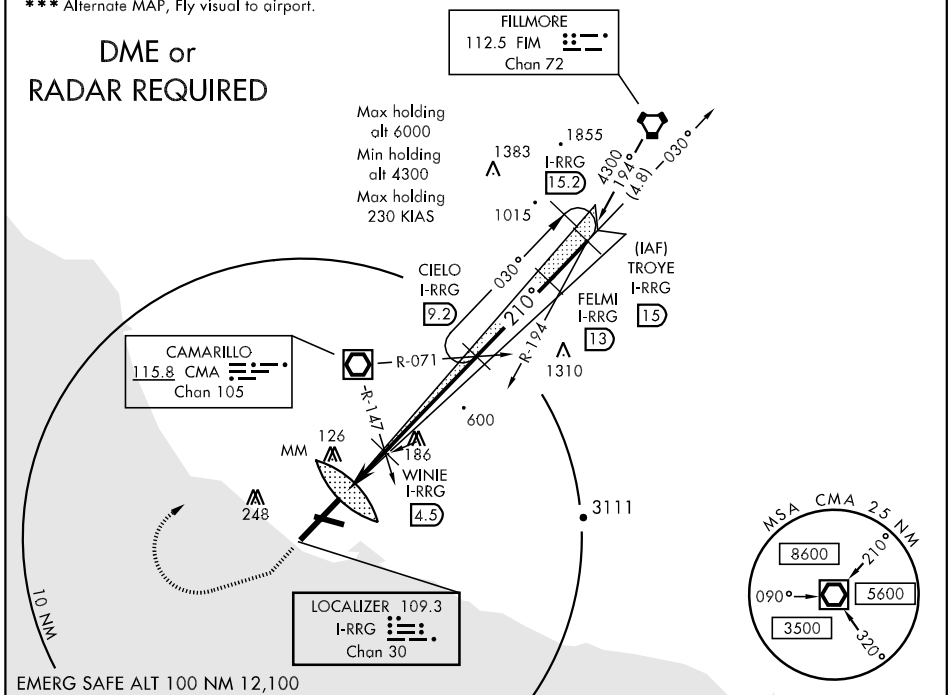
AL-925 [USN]

POINT MUGU NAS
(NAVAL BASE VENTURA CO)(KNTD)

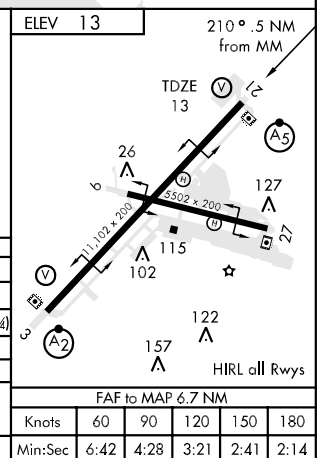
▼ * When ALS inop, increase vis (ILS) CAT ABCD to ¾ mile, (LOC) CAT ABC to 1 mile, CAT D to 1 ¼ miles. ** Circling not authorized E of Rwy 3-21 or when alternate MAP Rwy 21 in use.	MALSR	MISSED APPROACH: Climb to 500 via hdg 210°, then climbing right turn to 3000 via hdg 245° then climbing right turn to 5000 direct CMA VOR/DME, then via CMA R-071 to CIELO and hold.
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ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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*** Alternate MAP, Fly visual to airport.

DME or
RADAR REQUIRED

CATEGORY	A	B	C	D
S-ILS 21 *		213-½	200 (200-½)	
S-LOC 21 *	360-½	347 (400-½)		360-¾ 347 (400-¾)
S-ILS 21 ***		886-2	873 (900-2)	
S-LOC 21 ***		940-2	927 (1000-2)	
CIRCLING **	420-1 407 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)
S-PAR 21		113-½	100 (100-½)	GS 3.0°



APCH CRS 030°	Rwy Idg 11,102
	TDZE 11
	Arpt Elev 13

AL-925 [USN]

▼ * When ALS inop, increase CAT ABCD vis to 1 mile.
** Circling not authorized E of Rwy 3-21.
*** When ALS inop, increase CAT ABCD vis to ½ mile.



MISSED APPROACH: Climb to 500, then climbing left turn to 2600 direct RENET and hold.

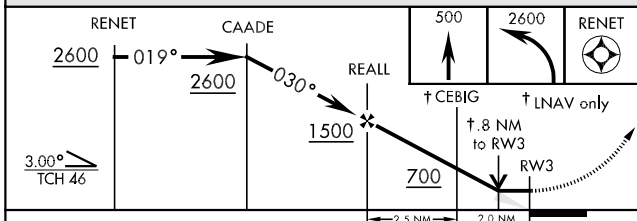
ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (108°F).

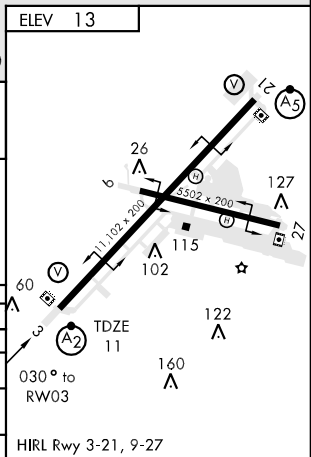
DME/DME RNP-0.3 NA



EMERG SAFE ALT 100 NM 12,100



CATEGORY	A	B	C	D
LNAV MDA *	320-¾	309	(400-¾)	
LNAV/VNAV* DA	321-¾	310	(400-¾)	
CIRCLING **	420-1 407 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)
S-PAR 3 ***	111-¼	100 (100-¼)	GS 3.0°	



SAN MARCUS-SEVEN DEPARTURE (RZS 7 • RZS)

OXNARD, CALIFORNIA

ATIS ★ 125.55 363.05
CLNC DEL
120.75 279.55
GND CON
121.6 360.2
POINT MUGU TOWER ★
124.85 290.375
POINT MUGU DEP CON
128.65 307.275

SHL-925 [USN]

TACAN REQUIRED

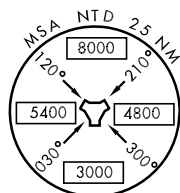
AVENAL
117.1 AVE
Chan 118

L-3, L-7, H-4

SHAFTER
115.4 EHF
Chan 101

L-3, L-7, H-4

SAN MARCUS
114.9 RZS
Chan 96



AVE
R-155
338°
(69)

RZS
R-338
R-015

015°
(67)

(17)

5700

CIBCI

313°
(14)

FANKO

245°
(16)

R-245

R-133



POINT MUGU
Chan 43 NTD

554

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn to 210° within 3 DME of NTD TACAN, thence...

TAKE-OFF RWY 21: Turn right, thence...

TAKE-OFF RWY 27: Turn left, thence...

Intercept NTD R-245 and via NTD R-245 to FANKO (NTD R-245/16 DME), then via RZS VORTAC R-133 to RZS VORTAC, then via assigned routing.
Cross CIBCI (RZS R-133/17 DME) at or above 5700.

AVENAL TRANSITION (RZS 7 • AVE): From over SAN MARCUS VORTAC via RZS R-338 to AVENAL VORTAC. Cross SAN MARCUS VORTAC at or above 7900.

SHAFTER TRANSITION (RZS 7 • EHF): From over SAN MARCUS VORTAC via RZS R-015 to SHAFTER VORTAC. Cross SAN MARCUS VORTAC at or above 8900.

SAN MARCUS-SEVEN DEPARTURE (RZS 7 • RZS)

OXNARD, CALIFORNIA

SW-3, 14 JAN 2010 to 11 FEB 2010

VORTAC FIM 112.5 Chan 72	APCH CRS 025°	Rwy Idg 11,102 TDZE 11 Arpt Elev 13
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AL-925 [USN] POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

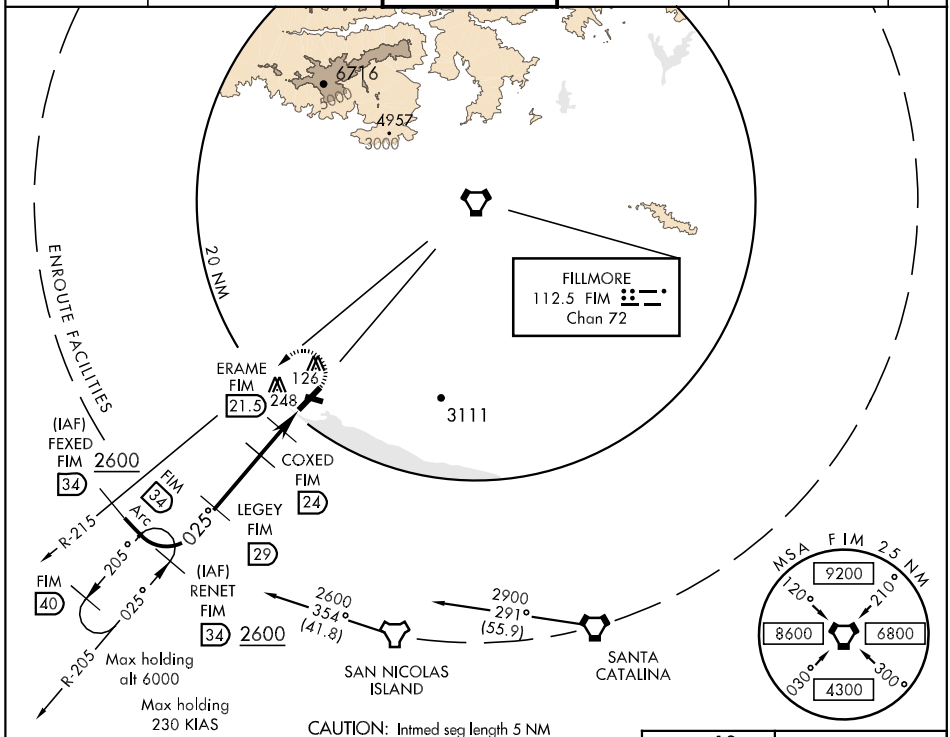
▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT CD to 1½ miles, CAT E to 1½ miles.

** Circling not authorized E of Rwy 3-21.

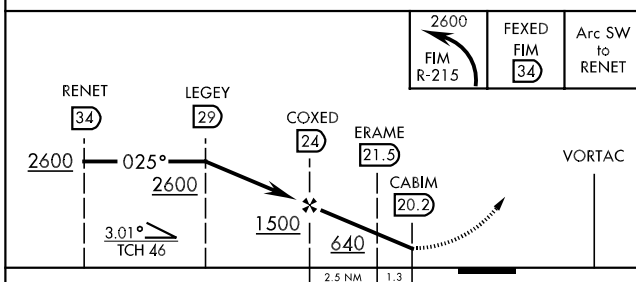


MISSED APPROACH: Climbing left turn to 2600. Intercept the FIM VORTAC R-215, then via FIM R-215 to FEXED, Arc SW of FIM via the 34 DME arc to RENET and hold.

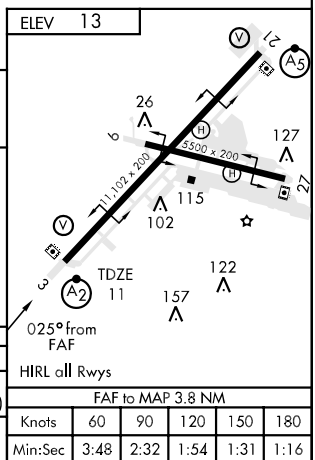
ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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EMERG SAFE ALT 100 NM 12,100



CATEGORY	A	B	C	D	E
S-3 *	420-¾ 409 (500-¾)		420-1 409 (500-1)		420-1¼ 409 (500-1¼)
CIRCLING **	420-1 407 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)	NA



TACAN NTD Chan 43	APCH CRS 213°	Rwy ldg 11,102 TDZE 13 Arpt Elev 13
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AL-925 [USN]

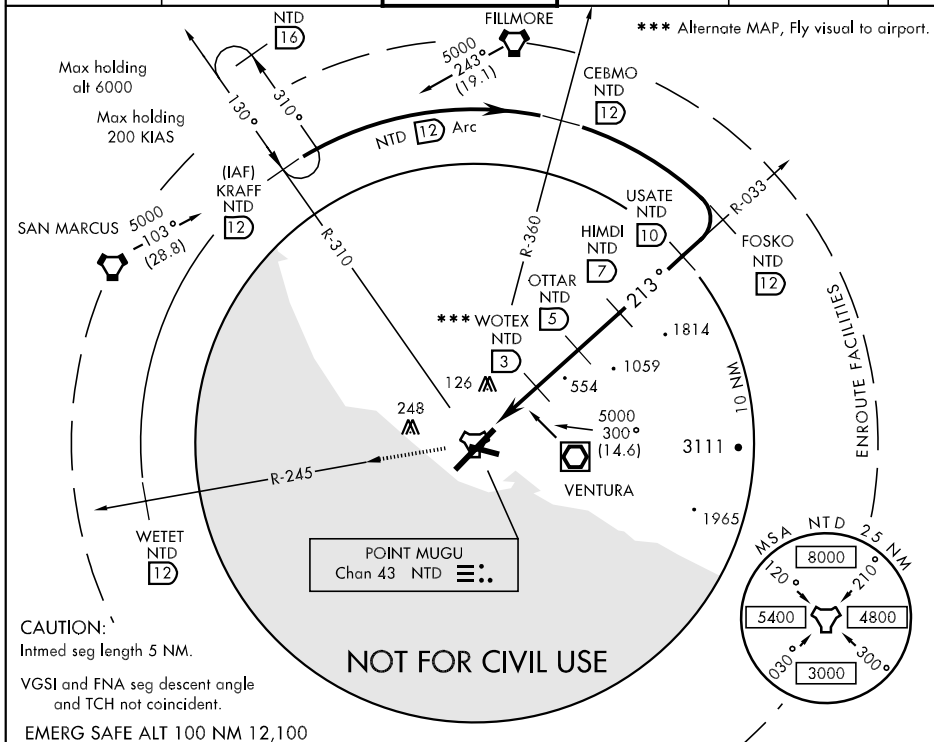
POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

▼ * When ALS inop, increase vis CAT ABC to 1 mile, CAT D to 1½ miles.
** Circling not authorized E of Rwy 3-21 or when alternate MAP Rwy 21 in use.

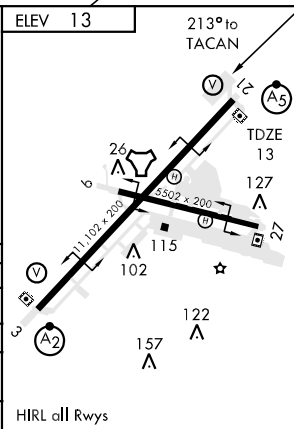


MISSED APPROACH: Climb to 5000 via NTD TACAN R-033 to NTD, then via NTD R-245 to WETET. Arc NW on NTD 12 DME arc to KRAFF and hold.

ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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5000 NTD R-033	NTD 	WETET NTD 12	Arc NW to KRAFF	† Or as assigned.	
TACAN	ZATPO 1.6	WOTEX 3	OTRAR 5	HIMDI 7	
	860	1500	2400	3300	
	5.4 NM				
				3900	
				5000 †	
				Arc 12	
				3.38° TCH 44	
CATEGORY	A	B	C	D	E
S-21 *	380-½	367 (400-½)	380-¾	367 (400-¾)	NA
S-21 ***		860-2	847 (900-2)		NA
CIRCLING **	420-1 407 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-½)	580-2 567 (600-2)	NA
S-PAR 21		113-½	100 (100-½)	GS 3.0°	

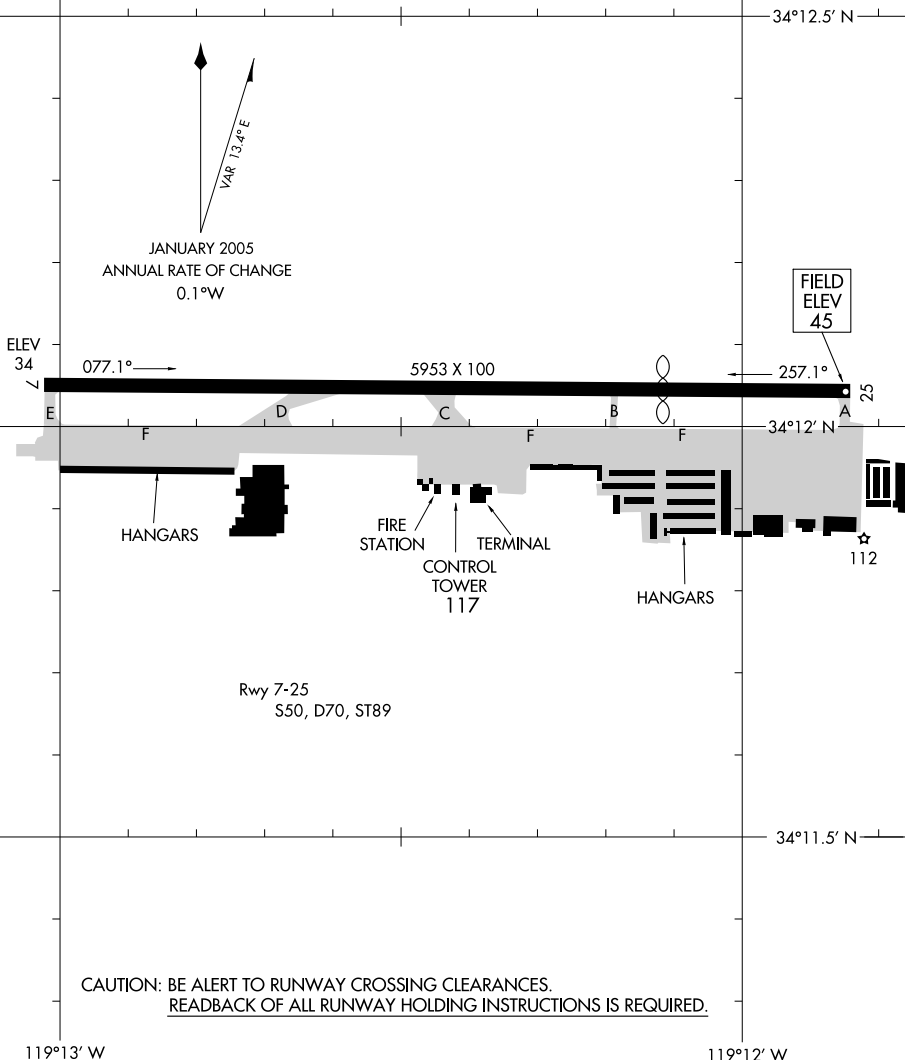


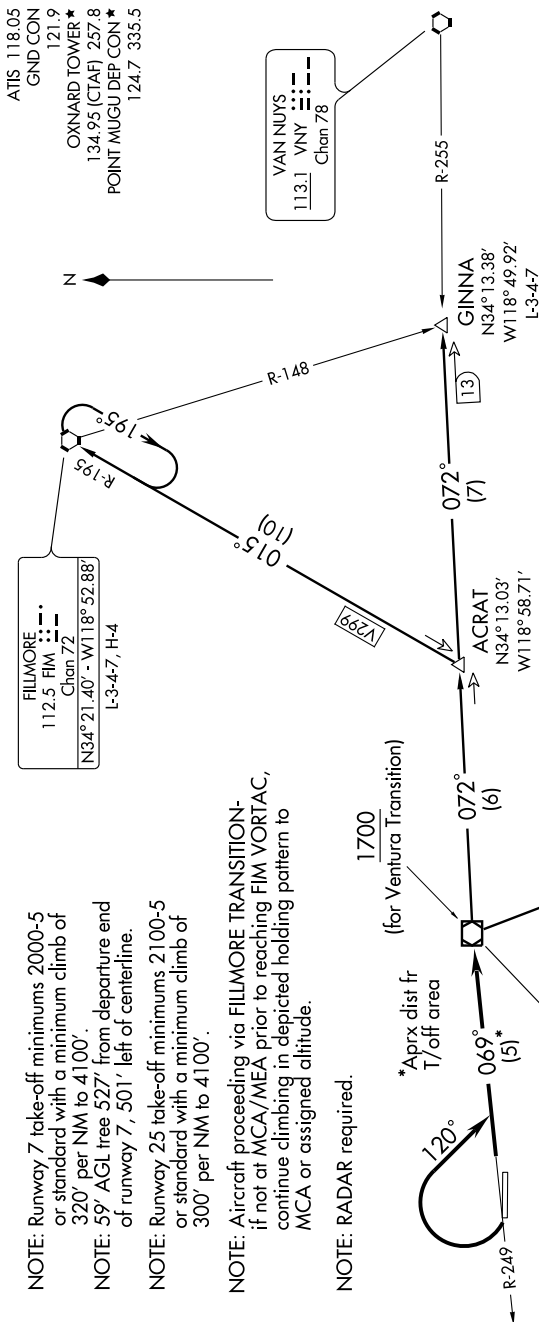
AIRPORT DIAGRAM

AL-674 (FAA)

OXNARD (OXR)
OXNARD, CALIFORNIA

ATIS 118.05
OXNARD TOWER ★
134.95 257.8
GND CON
121.9





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb to 8000 (or assigned altitude) via CMA R-249 to CMA VOR/DME. . . .

TAKE-OFF RUNWAY 25: Turn right heading 120° to intercept and climb to 8000 (or assigned altitude) via CMA R-249 to CMA VOR/DME. . . . thence via (assigned route) or (transition).

FILLMORE TRANSITION (CMA4.FIM): From over CMA VOR/DME via CMA R-072 to ACRAAT INT then via FIM R-195 to FIM VORTAC.
GINNA TRANSITION (CMA4.GINNA): From over CMA VOR/DME via CMA R-072 to GINNA INT.
VENTURA TRANSITION (CMA4.VTU): From over CMA VOR/DME via CMA R-144 and VTU R-324 to VTU VOR/DME.

NOTE: Chart not to scale.

ILS RWY 25

OXNARD (OXR)

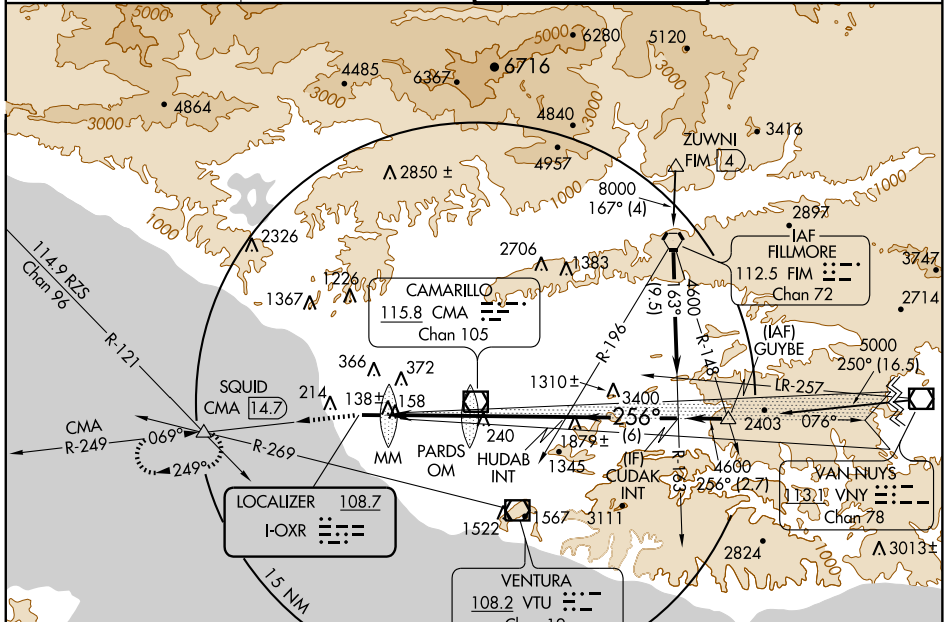
LOC I-OXR 108.7	APP CRS 256°	Rwy Idg 4576 TDZE 41 Apt Elev 45
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▼ Inoperative table does not apply.
▲ Visibility reduction by helicopters NA.
 Autopilot coupled approach NA below 867.
 When local altimeter not received, use Camarillo altimeter setting and increase DA to 309 feet.



MISSED APPROACH: Climb to 2000 via CMA VOR/DME R-249 to SQUID INT/CMA 14.7 DME and hold.

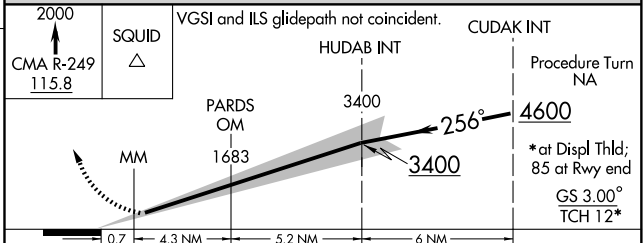
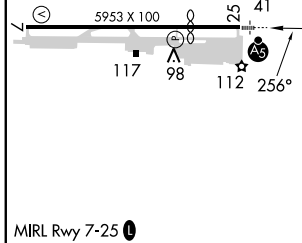
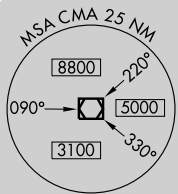
ATIS 118.05	POINT MUGU APP CON ★ 124.7 335.5	OXNARD TOWER ★ 134.95 (CTAF) 0 257.8	GND CON 121.9
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ELEV 45	Rwy 25 Idg 4576'
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Procedure NA for arrivals on FIM VORTAC airway radials 148 CW 195.
 When GS not used, use LOC Rwy 25 procedure.

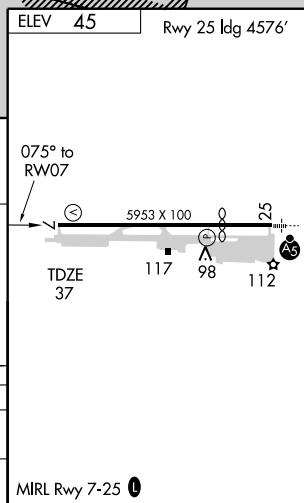
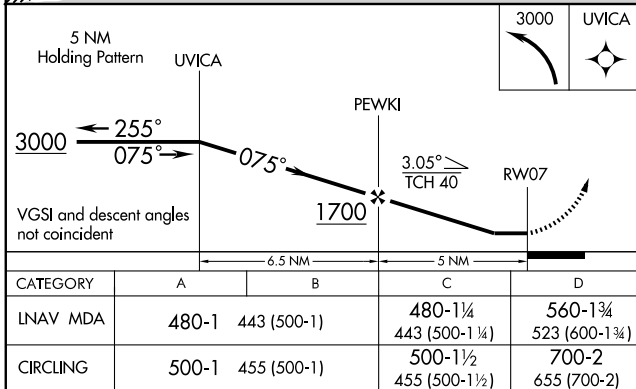
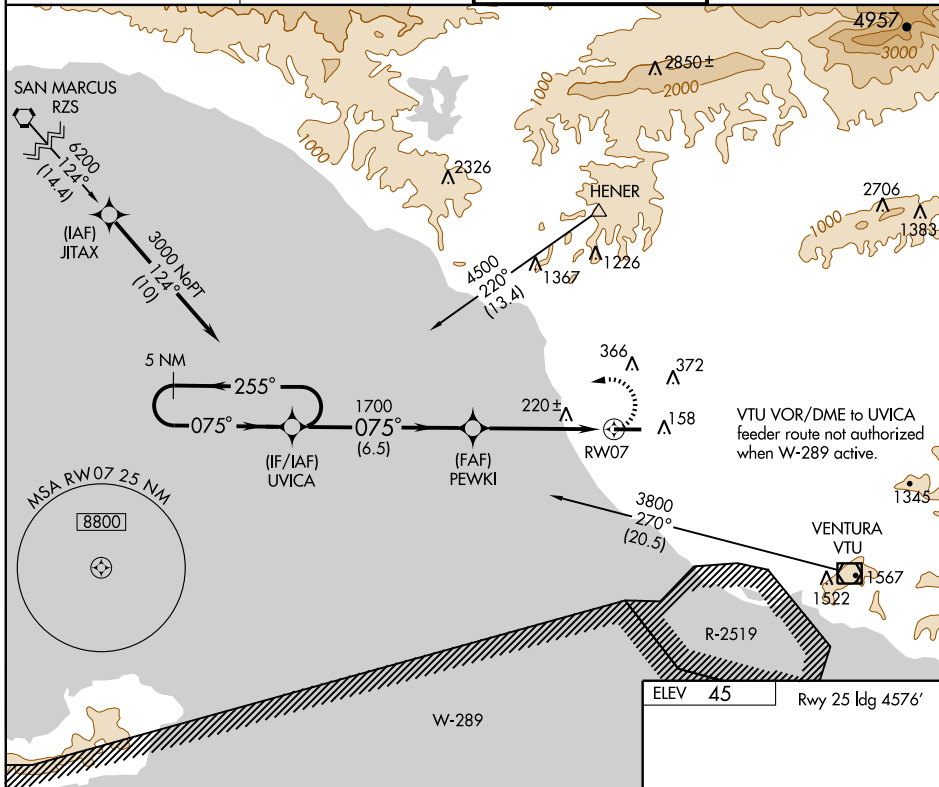


Knots	60	90	120	150	180
Min:Sec					
CATEGORY	A	B	C	D	
S-ILS 25	291-1 250 (300-1)				

APP CRS	Rwy Idg	5953
075°	TDZE	37
	Apt Elev	45

RNAV (GPS) RWY 7
OXNARD (OXR)

DME/DME RNP -0.3 NA.		MISSED APPROACH: Climbing left turn to 3000 direct UVICA and hold.	
ATIS 118.05	POINT MUGU APP CON★ 124.7 335.5	OXNARD TOWER★ 134.95 (CTAF) 0 257.8	GND CON 121.9



▼

▲

▼

Inoperative table does not apply. DME/DME RNP -0.3 NA.
Visibility reductions by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (121°F).
If local altimeter setting not received, use Camarillo altimeter setting and increase LPV DA/MDAs 20 feet, and LNAV/VNAV DA 55 feet.
Baro-VNAV NA when using Camarillo altimeter setting.

MALSR

MISSED APPROACH: Climb to 2000 direct PEWKI and via 239° track to SQUID and hold.

ATIS	POINT MUGU APP CON*	OXNARD TOWER*	GND CON
118.05	124.7 335.5	134.95 (CTAF) 0 257.8	121.9

ELEV 45

Rwy 25 Idg 4576'

2000

PEWKI

239° track

SQUID

LNAV only

CUKUM 5 NM to RW25

VGSI and RNAV glidepath not coincident HUDAB

CUDAK

Procedure Turn NA

5953 X 100

117

98

112

256° to RW25

TDZE 41

256°

3400

1660#

5 NM

5.2 NM

6 NM

CATEGORY	A	B	C	D
LPV DA	412-1½ 371 (400-1½)			
LNAV/VNAV DA	452-1½ 411 (500-1½)			
LNAV MDA	460-1	419 (500-1)	460-1¼	419 (500-1¼)
CIRCLING	500-1	455 (500-1)	500-1½ 455 (500-1½)	700-2 655 (700-2)

MIRL Rwy 7-25

SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS 118.05
GND CON 121.9
OXNARD TOWER ★
134.95 (CTAF) 257.8
POINT MUGU DEP CON ★
124.7 335.5
LOS ANGELES CENTER
119.05 135.5

NOTE: Runway 7 take-off minimums, 2100-5 or standard with a minimum climb of 290' per NM to 2600'.

NOTE: 59' AGL tree 527' from departure end of runway 7,
501' left of centerline.

NOTE: Runway 25 take-off minimums, Standard except KWANG
Transition requires a minimum climb of 370' per NM to 600'.

SAN MARCUS
114.9 RZS 
Chan 96

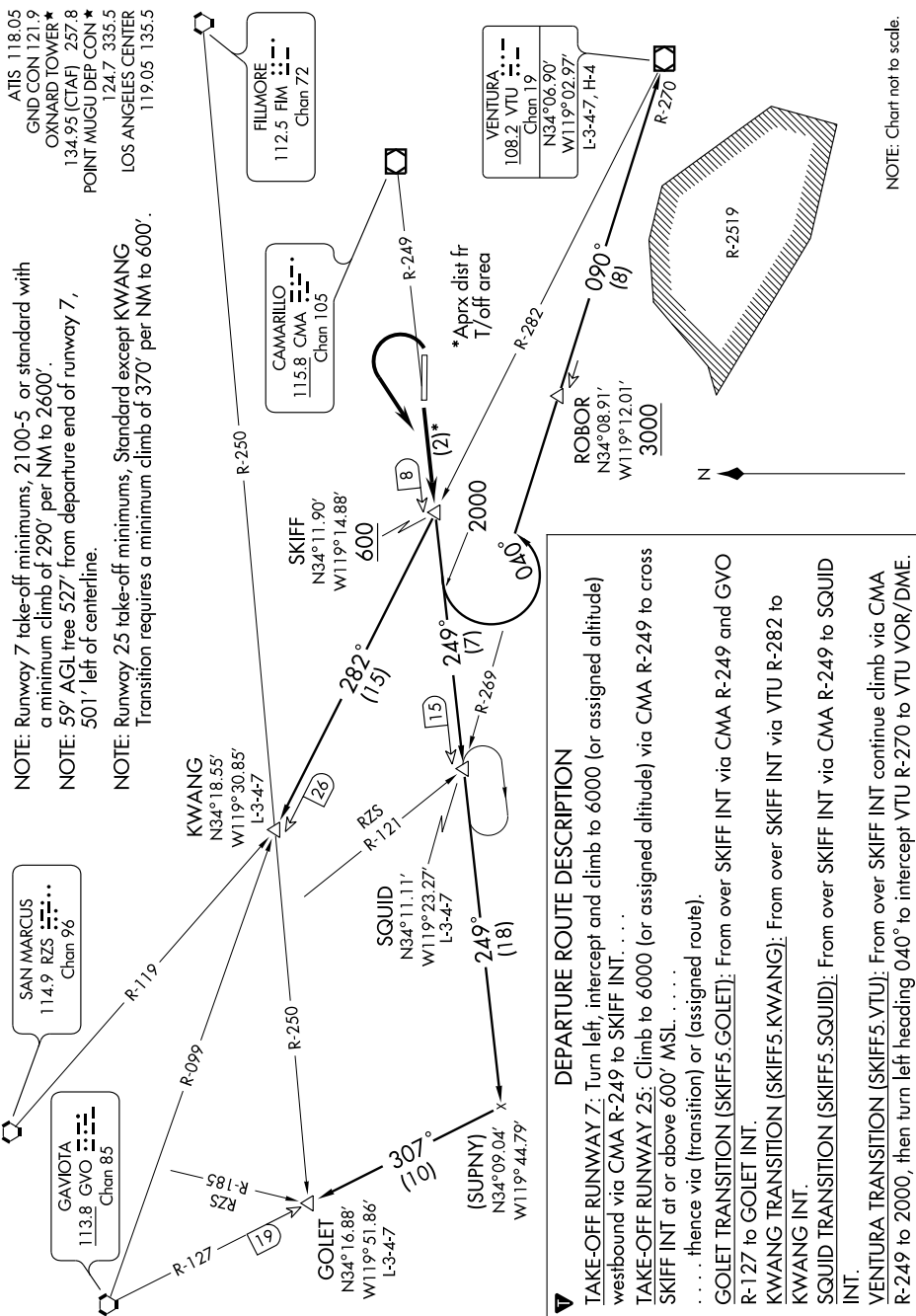
GAVIOTA
113.8 GVO 
Chan 85

FILLMORE
112.5 FM
Chan 72

CAMARILLO
115.8 CMA
Chan 105

VENTURA 108.2 VTU Chan 19	N34°06.90' W119°02.97'
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NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Turn left, intercept and climb to 6000 (or assigned altitude) westbound via CMA R-249 to SKIFF INT.

TAKE-OFF RUNWAY 25: Climb to 6000 (or assigned altitude) via CMA R-249 to cross SKIFF INT at or above 600' MSL.

. thence via (transition) or (assigned route).

GOLET TRANSITION (SKIFF5.GOLET): From over SKIFF INT via CMA R-249 and GVO R-1-127 to GOLET INT.

KWANG TRANSITION (SKIFF5.KWANG): From over SKIFF INT via VTU R-282 to KWANG INT.

SQUID TRANSITION (SKIFF5.SQUID): From over SKIFF INT via CMA R-249 to SQUID INT.

VENTURA TRANSITION (SKIFF5.VTU): From over SKIFF INT continue climb via CMA R-249 to 2000, then turn left heading 040° to intercept VTU R-270 to VTU VOR/DME.

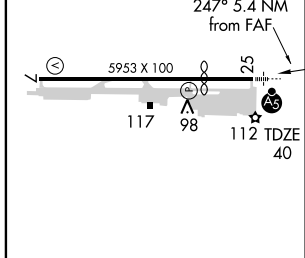
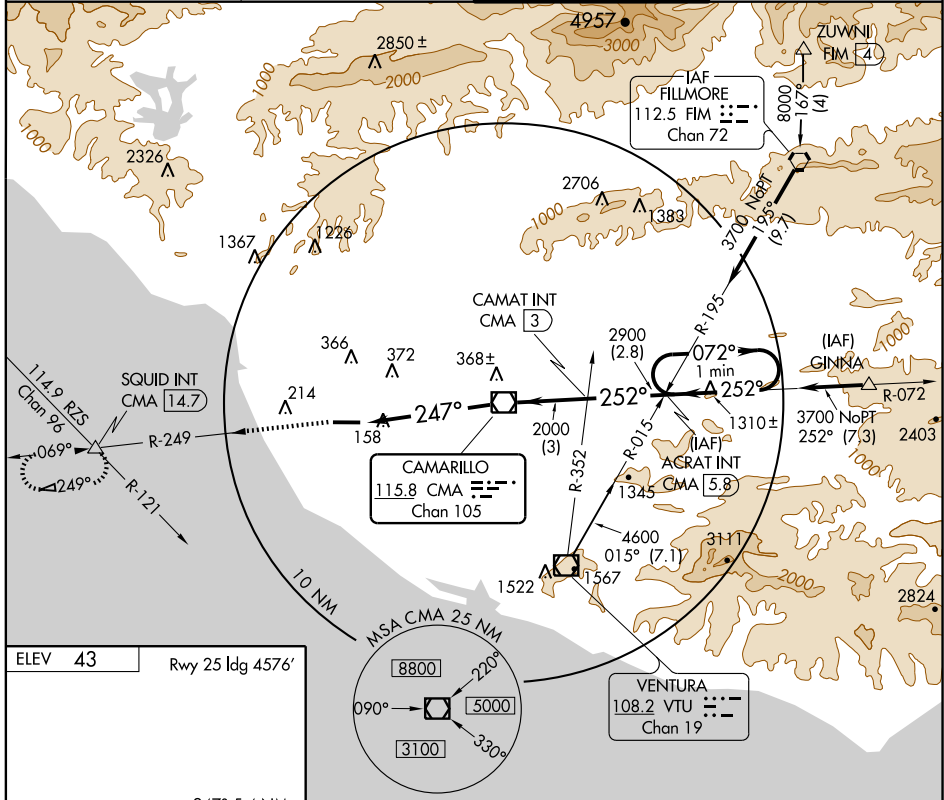
VOR RWY 25

OXNARD (OXR)

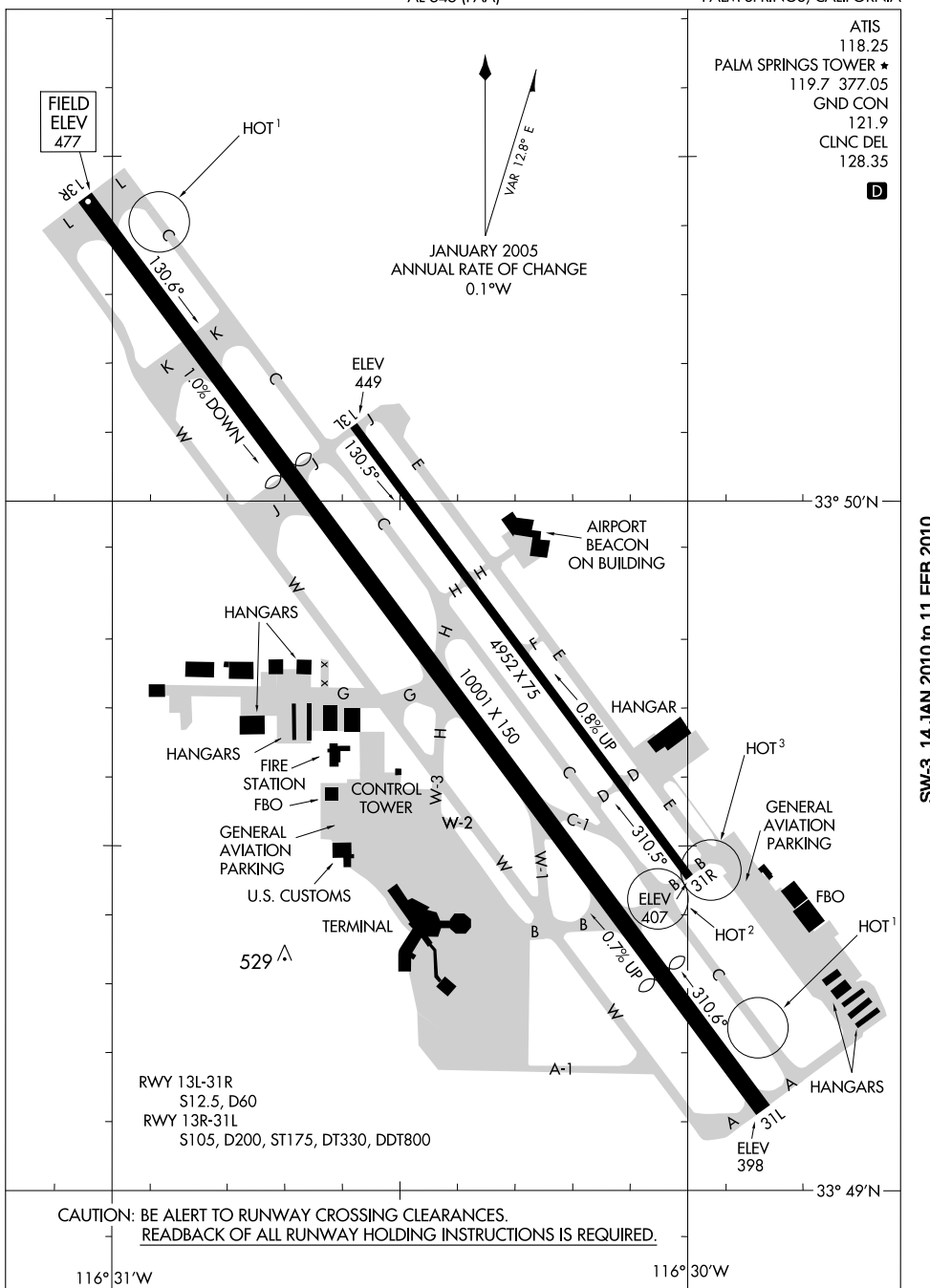
VOR/DME CMA	APP CRS	Rwy Idg	4576
115.8	247°	TDZE	40
Chan 105		Apt Elev	43

▼ Inoperative table does not apply.	MALSR 	MISSED APPROACH: Climb to 2000 via CMA R-249 to SQUID Int/CMA 14.7 DME and hold.
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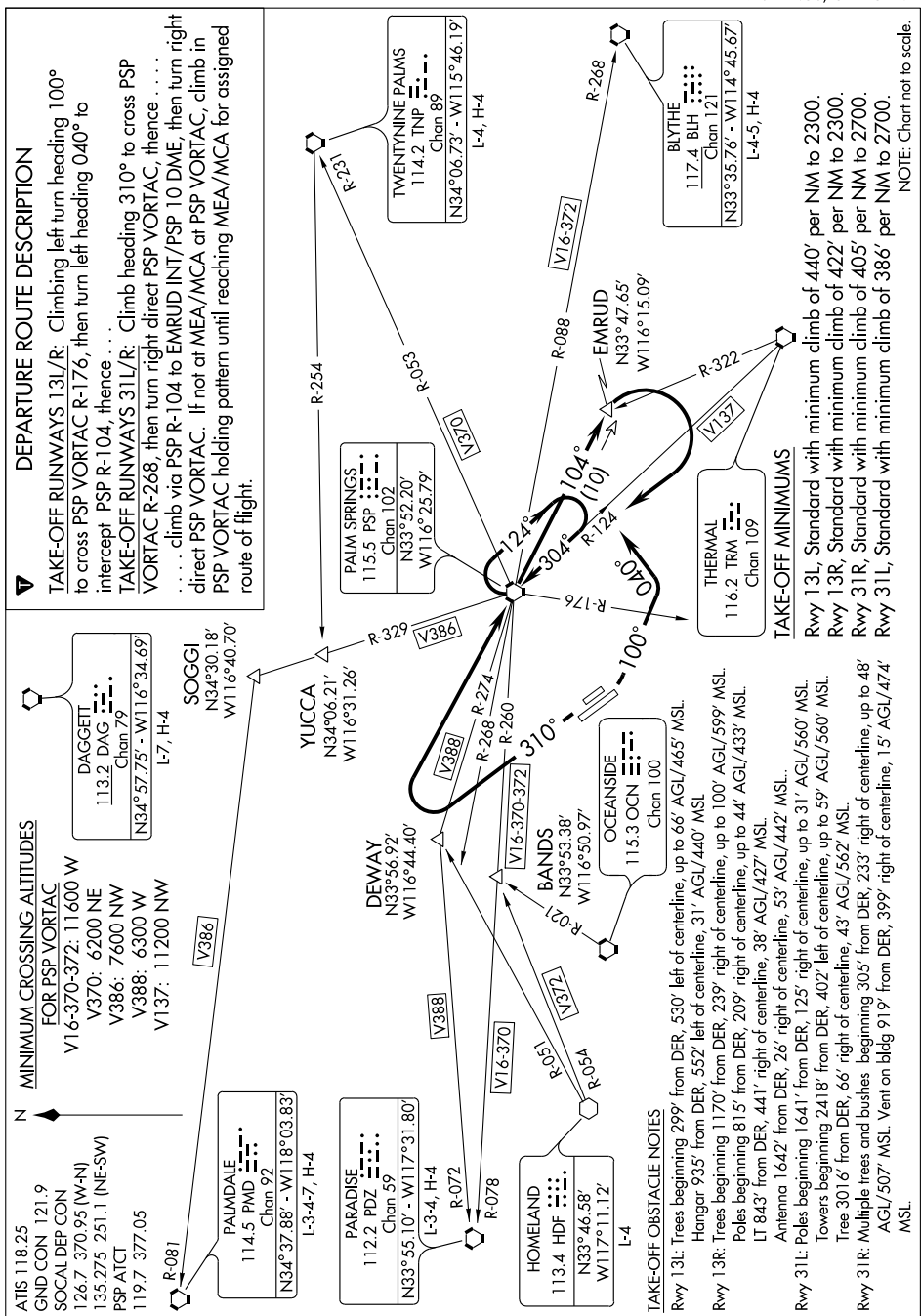
ATIS 118.05	POINT MUGU APP CON* 124.7 335.5	OXNARD TOWER* 134.95 (CTAF) 0 257.8	GND CON 121.9
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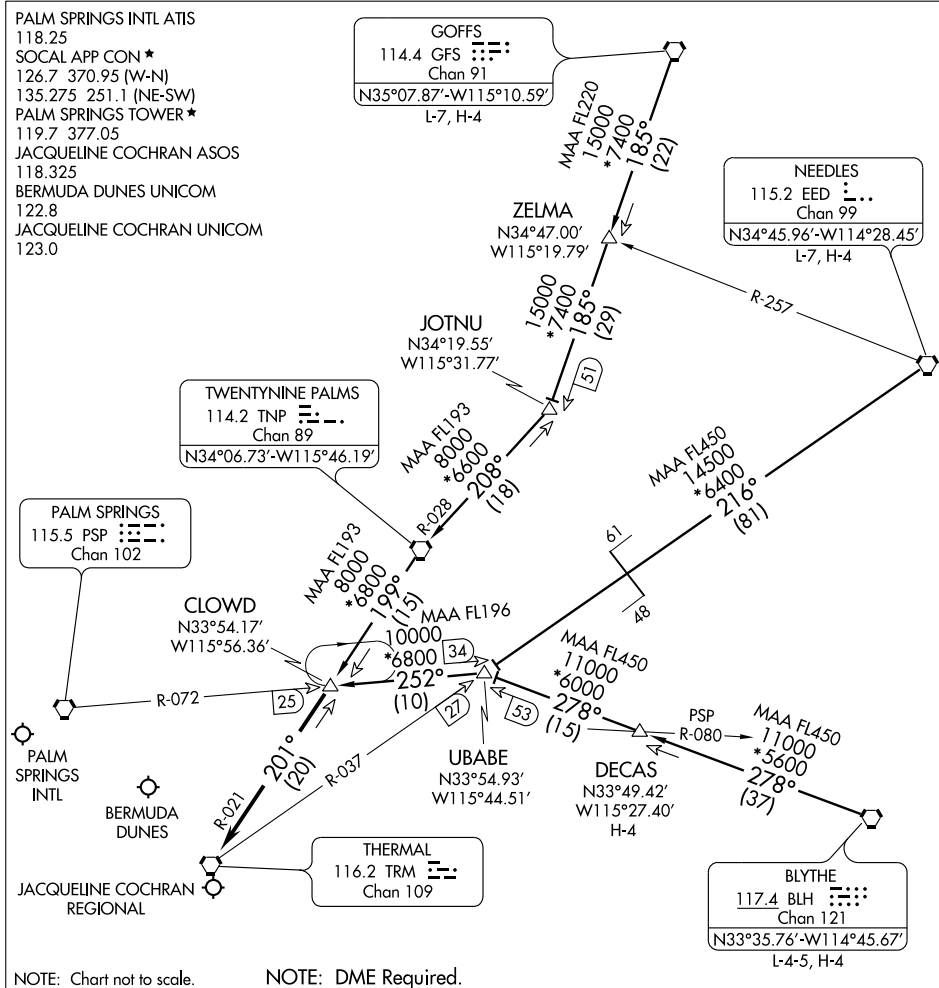


MIRL Rwy 7-25 0				
FAF to MAP 4.9 NM				
Knots	60	90	120	150
Min:Sec	4:54	3:16	2:27	1:58
				1:38
CATEGORY	A	B	C	D
S-25	480-1	440 (500-1)	480-1¼ 440 (500-1¼)	480-1½ 440 (500-1½)
CIRCLING	500-1	457 (500-1)	500-1½ 457 (500-1½)	700-2 657 (700-2)



CATHEDRAL ONE DEPARTURE





NOTE: Chart not to scale.

NOTE: DME Required.

BLYTHE TRANSITION (BLH.CLOUD1): From over BLH VORTAC via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

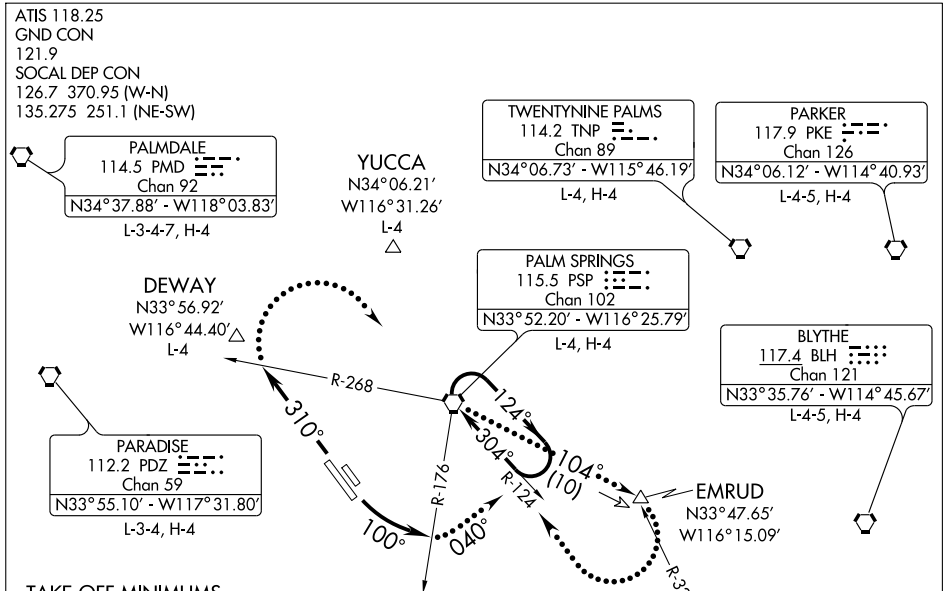
DECAS TRANSITION (DECAS.CLOUD1): From over DECAS INT via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

GOFFS TRANSITION (GFS.CLOUD1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 to CLOUD DME. Thence....

NEEDLES TRANSITION (EED.CLOUD1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to CLOUD DME. Thence....

....From over CLOUD DME via TRM R-021 to TRM VORTAC. Expect radar vectors to final approach course.

PALM SPRINGS FIVE DEPARTURE



TAKE-OFF MINIMUMS

Rwy 13R, 13L, 31R, 31L: Minimum climb of 450' per NM to 8000.

TAKE-OFF OBSTACLE NOTES

- Rwy 13L: Trees beginning 299' from DER, 530' left of centerline, up to 66' AGL/465' MSL.
Hangar 935' from DER, 552' left of centerline, 31' AGL/440' MSL.
- Rwy 13R: Trees beginning 1170' from DER, 239' right of centerline, up to 100' AGL/599' MSL.
Poles beginning 815' from DER, 209' right of centerline, up to 44' AGL/433' MSL.
LT 843' from DER, 441' right of centerline, 38' AGL/427' MSL.
Antenna 1642' from DER, 26' right of centerline, 53' AGL/442' MSL.
- Rwy 31L: Poles beginning 1641' from DER, 125' right of centerline, up to 31' AGL/550' MSL.
Towers beginning 2418' from DER, 402' left of centerline, up to 59' AGL/560' MSL.
Tree 3016' from DER, 66' right of centerline, 43' AGL/562' MSL.
- Rwy 31R: Trees beginning 787' from DER, 326' right of centerline, up to 48' AGL/507' MSL.
Multiple bushes beginning 305' from DER, 233' right of centerline, up to 3' AGL/462' MSL.
Vent on bldg 919' from DER, 399' right of centerline, 15' AGL/474' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Turn left heading 100°. Thence. . .

TAKE-OFF RUNWAYS 31L/R: Climb heading 310°. Thence. . .

. . . Maintain assigned altitude, expect vectors to appropriate route/fix, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

RUNWAYS 13L/R: If no contact with ATC passing PSP R-176, climbing left turn heading 040° to intercept the PSP R-104. Thence. . .

RUNWAYS 31L/R: If no contact with ATC passing PSP R-268; climbing right turn direct PSP VORTAC. Thence. . .

. . . Climb via PSP R-104 to EMRUD, then turn right direct PSP VORTAC. Then via assigned route.

APP CRS 130°	Rwy Idg TDZE Apt Elev	6857 451 477
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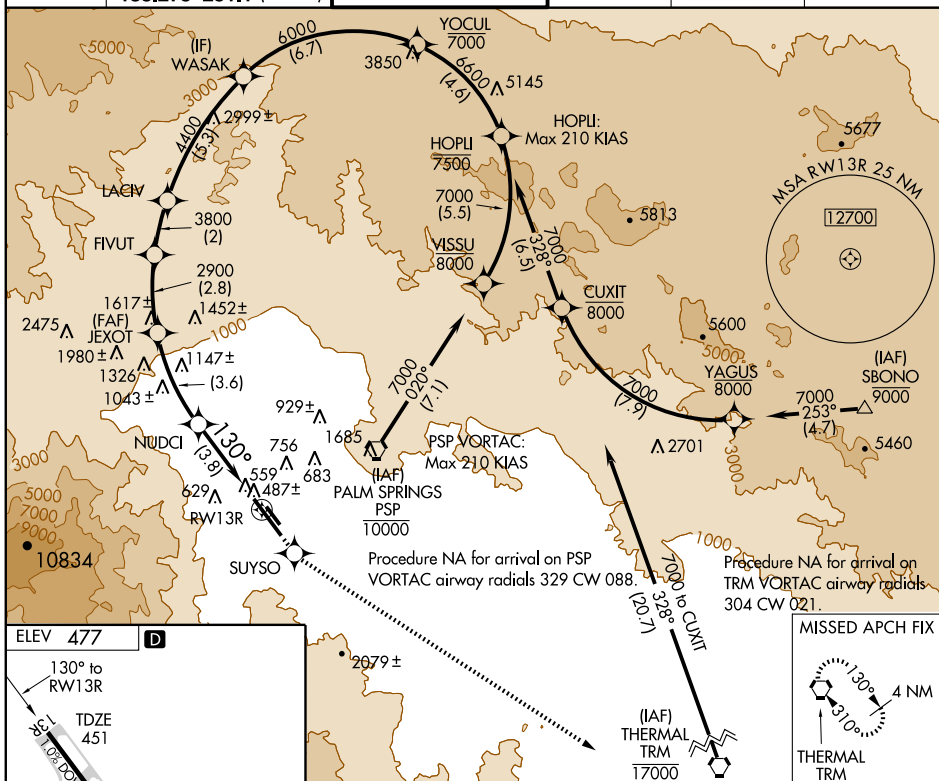
RNAV (RNP) Y RWY 13R

Palm Springs Intl (PSP)

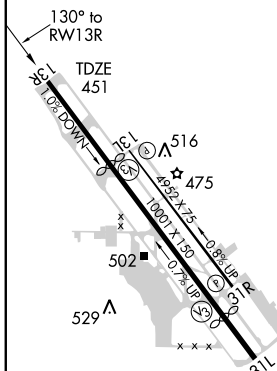
	RF and GPS required. Procedure NA when control tower closed.
 NA	For uncompensated Baro-VNAV systems, procedure NA below 2°C (35°F) or above 48°C (119°F).
	* Missed approach requires minimum climb of 285 feet per NM to 2400.
	** Missed approach requires minimum climb of 310 feet per NM to 2900.

MISSED APPROACH: Climb to 4000 direct SUYSO and 110° track to TRM VORTAC and hold

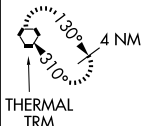
ATIS 118.25	SOCAL APP CON ★ 126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	PALM SPRINGS TOWER ★ 119.7 (CTAF) 0 377.05	GND CON 121.9	CLNC DEL 128.35	UNICOM 122.95
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ELEV 477



MISSED APCH FIX



CATEGORY	A B C D
RNP 0.17 DA*	728-1 277 (300-1)
RNP 0.3 DA**	859-1½ 408 (400-1½)
RNP 0.3 DA	1320-3 869 (900-3)

HIRL Rwy 13R-31L **L**
MIRL Rwy 13L-31R
REIL Rwy 13L, 13R, 31L, and 31R

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

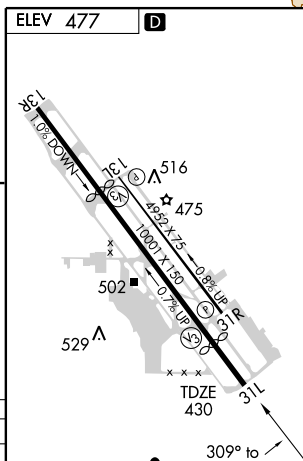
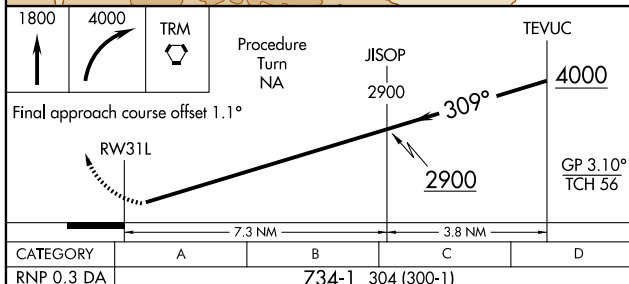
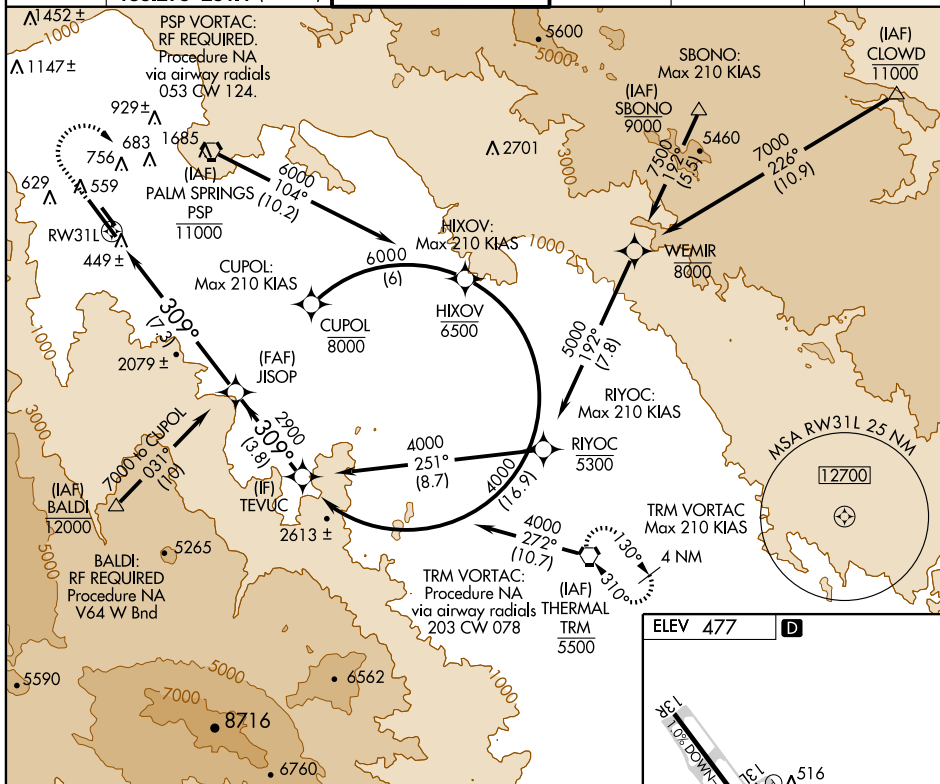
APP CRS 309°	Rwy Idg TDZE Apt Elev	8500 430 477
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RNAV (RNP) Y RWY 31L

PALM SPRINGS INTL (PSP)

GPS required. Procedure NA when control tower closed. For uncompensated Baro-VNAV systems, procedure NA below 2°C (35°F) or above 38°C (102°F). Missed approach requires minimum climb of 340' per NM to 3000. Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 direct TRM VORTAC and hold.
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ATIS 118.25	SOCAL APP CON ★ 126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	PALM SPRINGS TOWER ★ 119.7 (CTAF) 377.05	GND CON 121.9	CLNC DEL 128.35	UNICOM 122.95
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CATEGORY	A	B	C	D
RNP 0.3 DA	734-1	304 (300-1)		

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

HIRL Rwy 13R-31L
MIRL Rwy 13L-31R
REIL Rws 13L, 13R, 31L, and 31R

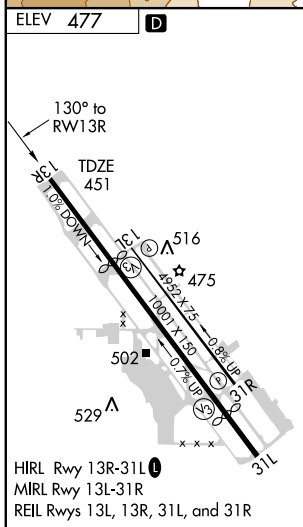
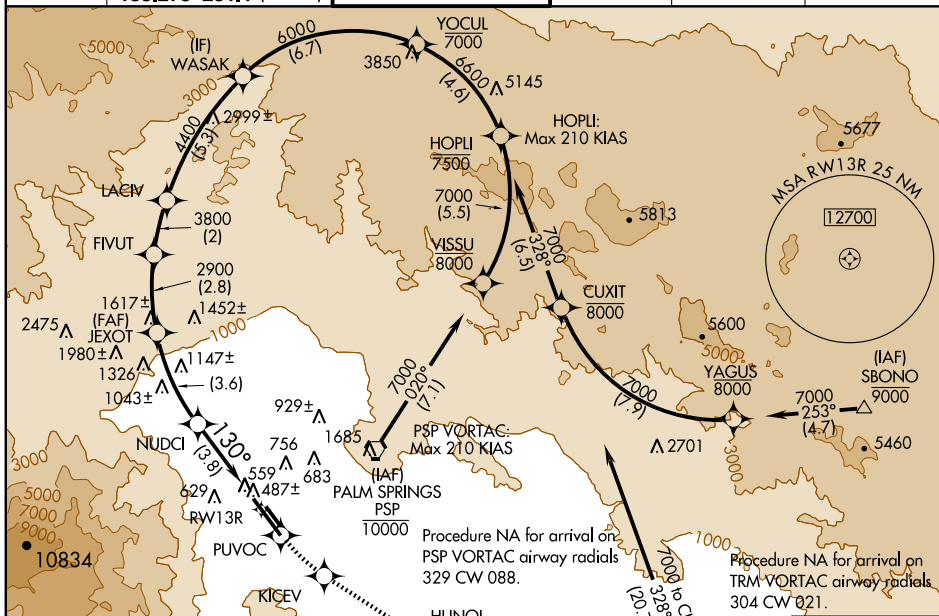
APP CRS	Rwy Idg	6857
130°	TDZE	451
	Apt Elev	477

RNAV (RNP) Z RWY 13R PALM SPRINGS INTL (PSP)

V RF and GPS required. Procedure NA when control tower closed.
NA For uncompensated Baro-VNAV systems, procedure NA below 2°C (35°F) or above 48°C (119°F).
 Missed approach requires RNP less than 1.0.

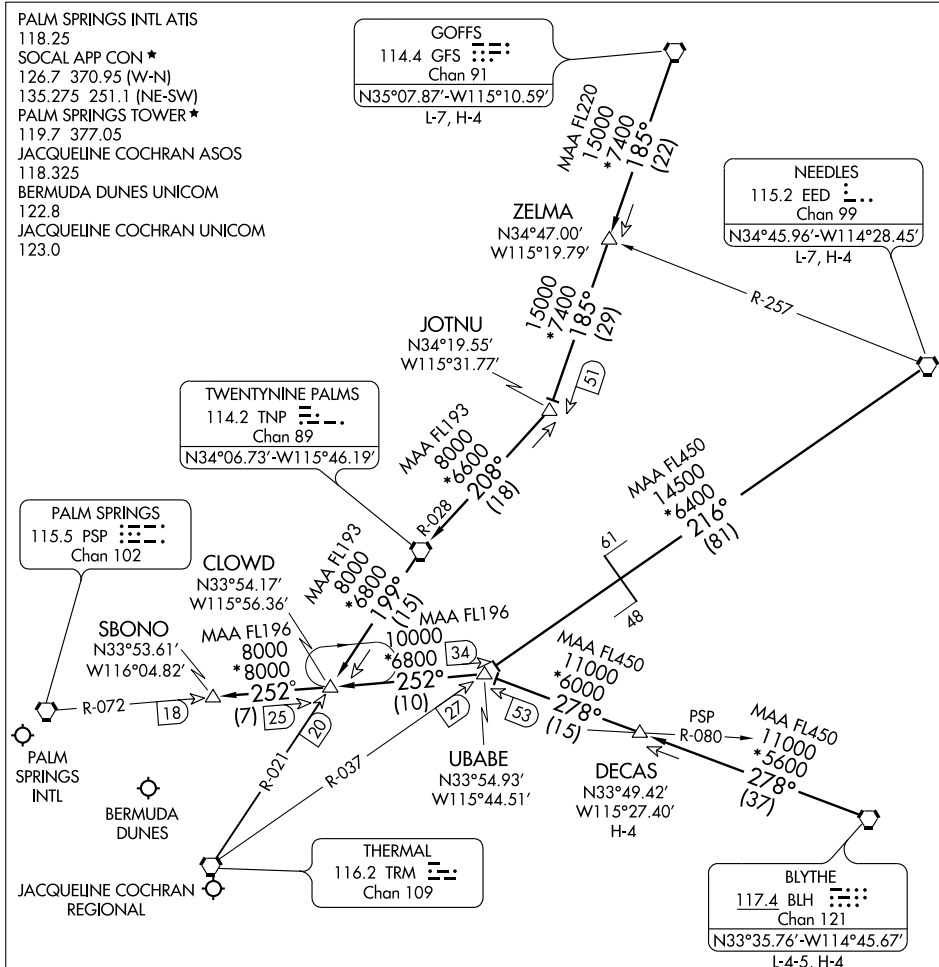
MISSED APPROACH: Climb to 4000 via 130° track to PUVOC, left radius turn to KICEV, 110° track to HUNOL, 110° track to TRM VORTAC and hold.

ATIS	SOCAL APP CON ★	PALM SPRINGS TOWER ★	GND CON	CLNC DEL	UNICOM
118.25	126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	119.7 (CTAF) 0 377.05	121.9	128.35	122.95



WASAK	LACIV	FIVUT	JEXOT	NUDCI	RWY 13R	Procedure Turn NA
6000	4400	3800	2900	1716	130°	
GP 3.00° TCH 42	5.3 NM	2 NM	2.8 NM	3.6 NM	3.8 NM	
CATEGORY	A	B	C	D		
RNP 0.17 DA	728-1	277 (300-1)				
RNP 0.3 DA	859-1½	408 (400-1½)				

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**



SW-3. 14 JAN 2010 to 11 FEB 2010

BLYTHE TRANSITION (BLH.SBONO1): From over BLH VORTAC via BLH R-278 and PSP R-072 to SBONO DME. Thence....

DECAS TRANSITION (DECAS.SBONO1): From over DECAS INT via BLH R-278 and PSP R-072 to SBONO DME. Thence....

GOFFS TRANSITION (GFS.SBONO1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 and PSP R-072 to SBONO DME. Thence....

NEEDLES TRANSITION (EED.SBONO1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to SBONO DME. Thence....

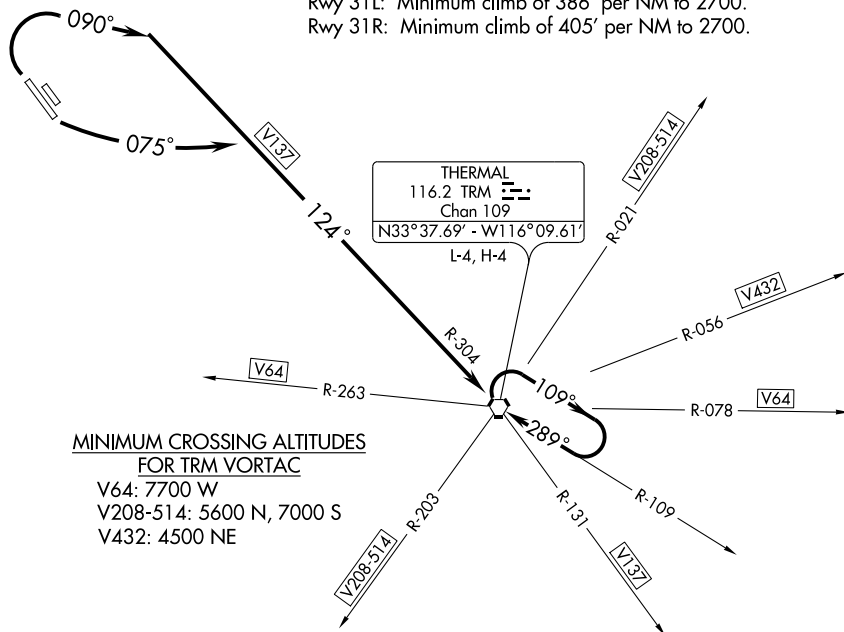
....From over SBONO DME expect radar vectors to final approach course.

THERMAL SIX DEPARTURE

ATIS 118.25
GND CON
121.9
SOCAL DEP CON
126.7 370.95 (W-N)
135.275 251.1 (NE-SW)

TAKE-OFF MINIMUMS

Rwy 13L: Minimum climb of 440' per NM to 2300.
Rwy 13R: Minimum climb of 422' per NM to 2300.
Rwy 31L: Minimum climb of 386' per NM to 2700.
Rwy 31R: Minimum climb of 405' per NM to 2700.



MINIMUM CROSSING ALTITUDES FOR TRM VORTAC

V64: 7700 W
V208-514: 5600 N, 7000 S
V432: 4500 NE

TAKE-OFF OBSTACLE NOTES

- Rwy 13L: Trees beginning 299' from DER, 530' left of centerline, up to 66' AGL/465' MSL.
Hangar 935' from DER, 552' left of centerline, 31' AGL/440' MSL.
- Rwy 13R: Trees beginning 1170' from DER, 239' right of centerline, up to 100' AGL/599' MSL.
Poles beginning 815' from DER, 209' right of centerline, up to 44' AGL/433' MSL.
LT 843' from DER, 441' right of centerline, 38' AGL/427' MSL.
Antenna 1642' from DER, 26' right of centerline, 53' AGL/442' MSL.
- Rwy 31L: Poles beginning 1641' from DER, 125' right of centerline, up to 31' AGL/550' MSL.
Towers beginning 2418' from DER, 402' left of centerline, up to 59' AGL/560' MSL.
Tree 3016' from DER, 66' right of centerline, 43' AGL/562' MSL.
- Rwy 31R: Trees beginning 787' from DER, 326' right of centerline, up to 48' AGL/507' MSL.
Multiple bushes beginning 305' from DER, 233' right of centerline, up to 3' AGL/462' MSL.
Vent on bldg 919' from DER, 399' right of centerline, 15' AGL/474' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Climbing left turn heading 075° to intercept TRM R-304 to TRM VORTAC. Thence

TAKE-OFF RUNWAYS 31L/R: Climb heading 090° to intercept TRM R-304 to TRM VORTAC. Thence

. . . .If not at MEA/MCA at TRM VORTAC, climb in TRM holding pattern until reaching the MEA/MCA for assigned route of flight.

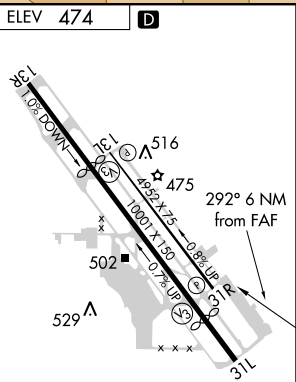
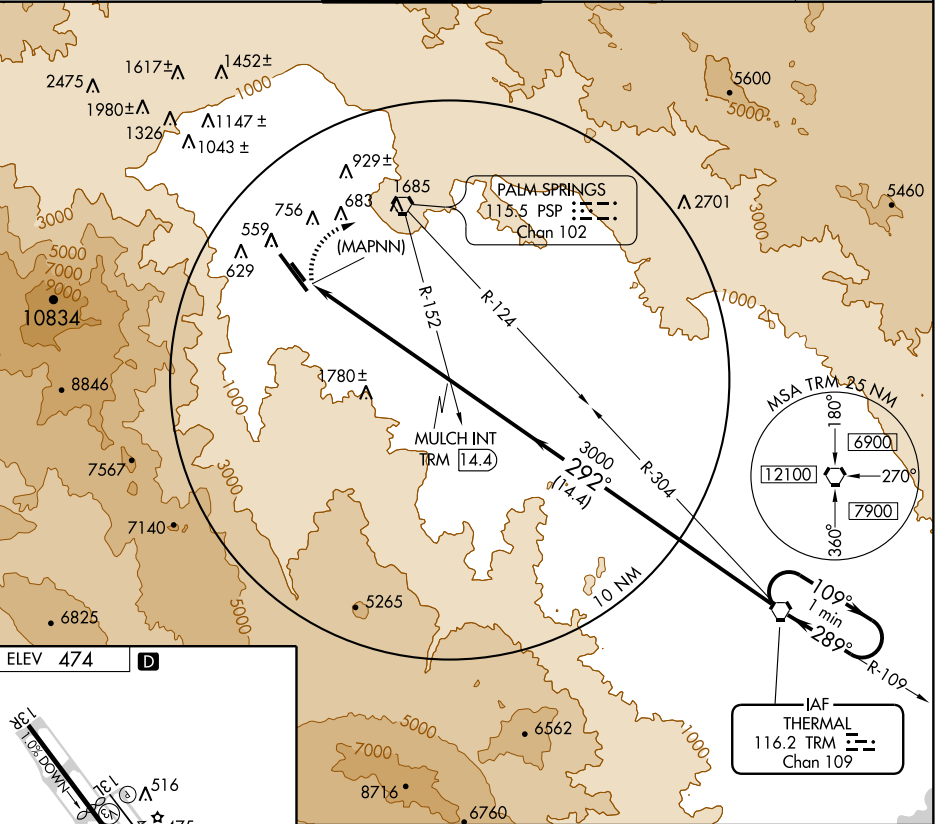
VORTAC TRM	APP CRS	Rwy Idg TDZE	N/A
116.2	292°		N/A
Chan 109		Apt Elev	474

VOR or GPS-B
PALM SPRINGS INTL (PSP)

Circling not authorized southwest of Rwy 13R-31L.

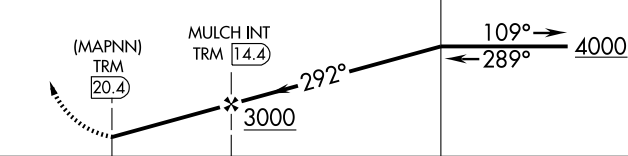
MISSED APPROACH: Climbing right turn to 4000 direct PSP VORTAC then via PSP R-124 and TRM R-304 to TRM VORTAC and hold.

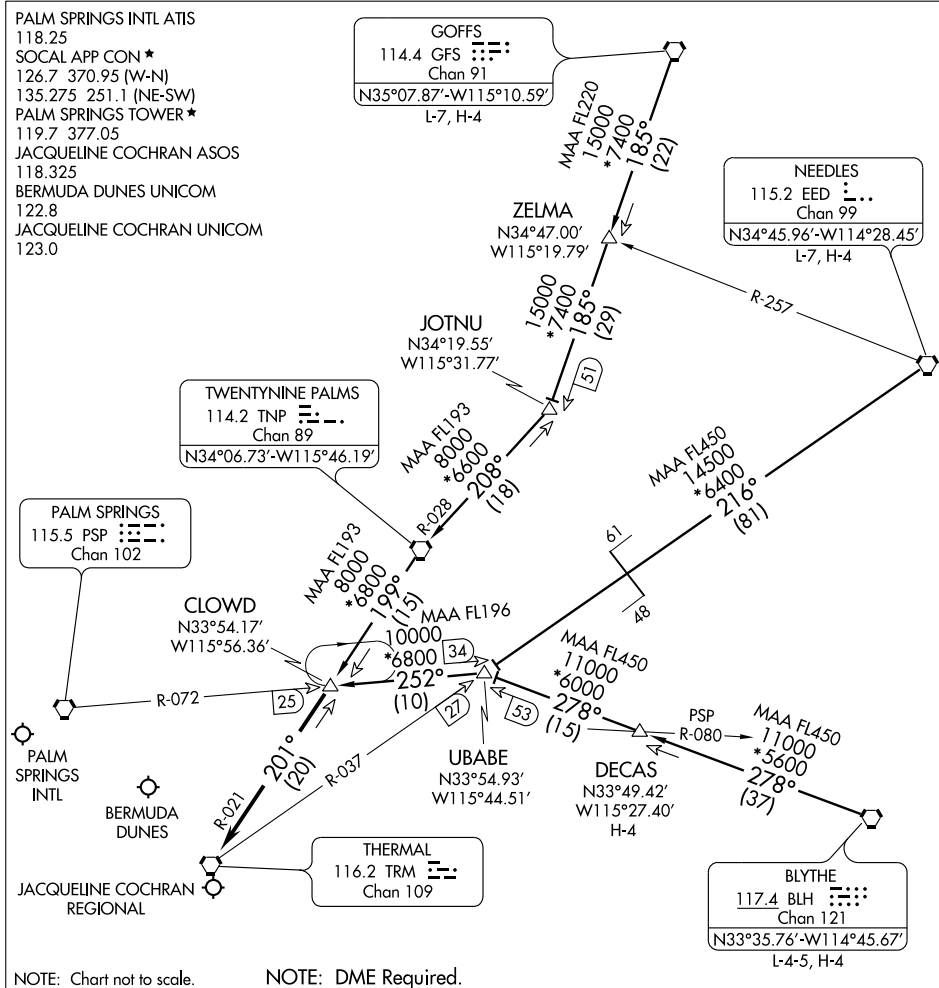
ATIS 118.25	SOCAL APP CON ★ 126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	PALM SPRINGS TOWER ★ 119.7 (CTAF) 377.05	GND CON 121.9	CLNC DEL 128.35	UNICOM 122.95
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HIRL Rwy 13R-31L
MIRL Rwy 13L-31R
REIL Rws 13L, 13R, 31L, and 31R

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

4000 	PSP  115.5	PSP R-124 115.5	TRM R-304 116.2	TRM  116.2	VORTAC	One Minute Holding Pattern
 (MAPNN) TRM 20.4 MULCH INT TRM 14.4 3000 292° 109° 289° 4000 6 NM 14.4 NM						
CATEGORY	A		B		C	D
CIRCLING	2300-1¼ 1826 (1900-1¼)		2300-1½ 1826 (1900-1½)		2300-3	1826 (1900-3)



NOTE: Chart not to scale.

NOTE: DME Required.

BLYTHE TRANSITION (BLH.CLOUD1): From over BLH VORTAC via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

DECAS TRANSITION (DECAS.CLOUD1): From over DECAS INT via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

GOFFS TRANSITION (GFS.CLOUD1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 to CLOUD DME. Thence....

NEEDLES TRANSITION (EED.CLOUD1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to CLOUD DME. Thence....

....From over CLOUD DME via TRM R-021 to TRM VORTAC. Expect radar vectors to final approach course.

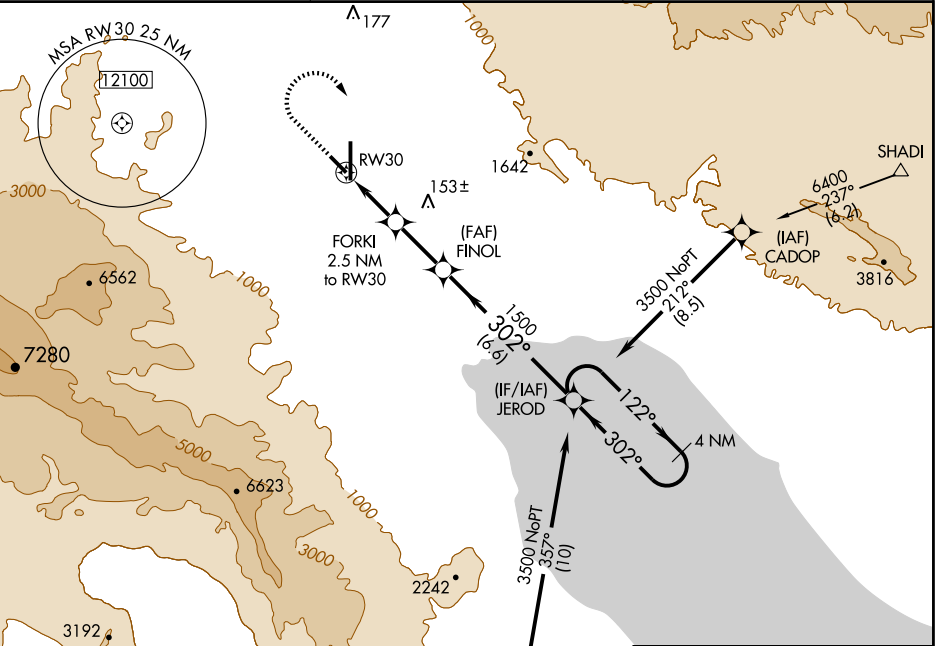
APP CRS 302°	Rwy Idg TDZE -121 Apt Elev -114
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RNAV (GPS) RWY 30

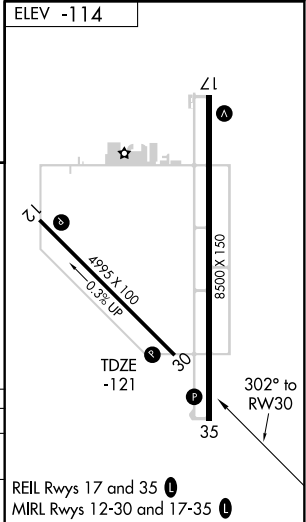
PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct JEROD WP and hold.
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ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 123.0 (CTAF) L
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1000 ↑	3500 ↷	JEROD 	4 NM Holding Pattern	
CATEGORY	A	B	C	D
LNAV MDA	260-1 374 (400-1)			260-1¼ 374 (400-1¼)
CIRCLING	320-1 434 (500-1)	340-1 454 (500-1)	340-1½ 454 (500-1½)	500-2 614 (700-2)



SW-3. 14 JAN 2010 to 11 FEB 2010

APP CRS
336°

Rwy Idg
TDZE
Apt Elev

8500
-124
-114

RNAV (GPS) RWY 35

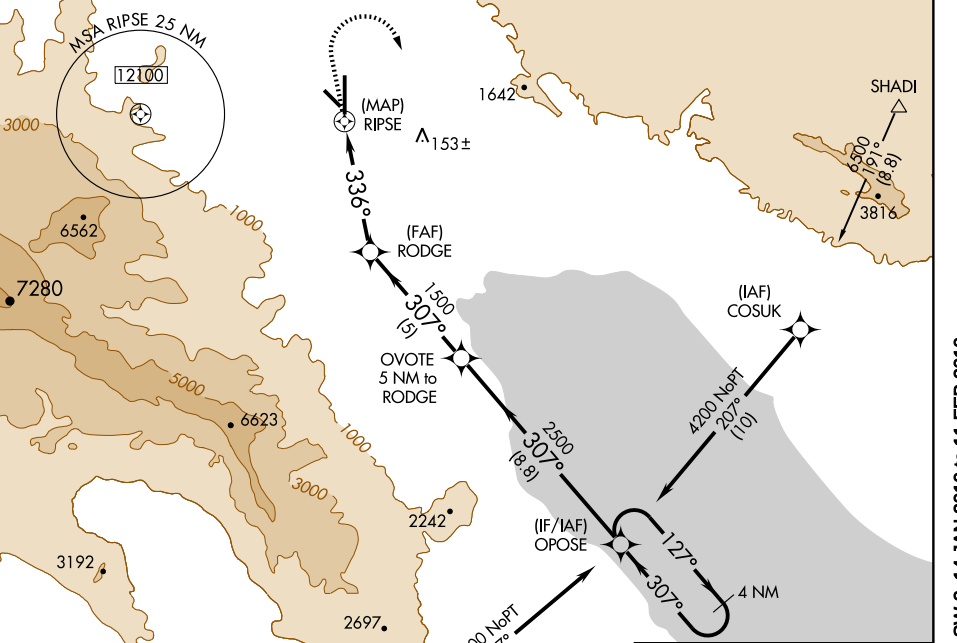
PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1350 then climbing right turn to 4200 direct OPOSE WP and hold.

ASOS 118.325	SOCAL APP CON★ 135.275 251.1	UNICOM 123.0 (CTAF) 0
-----------------	---------------------------------	--------------------------



ELEV -114

MIRL Rwy 12-30 and 17-35

REIL Rwy 17 and 35

1350 4200 OPOSE

↑ ↗ ✧

2.2 NM to RIPSE

2.99° TCH 50

336° 1500

307° 2500

127° 4200

307° 4200

4 NM Holding Pattern

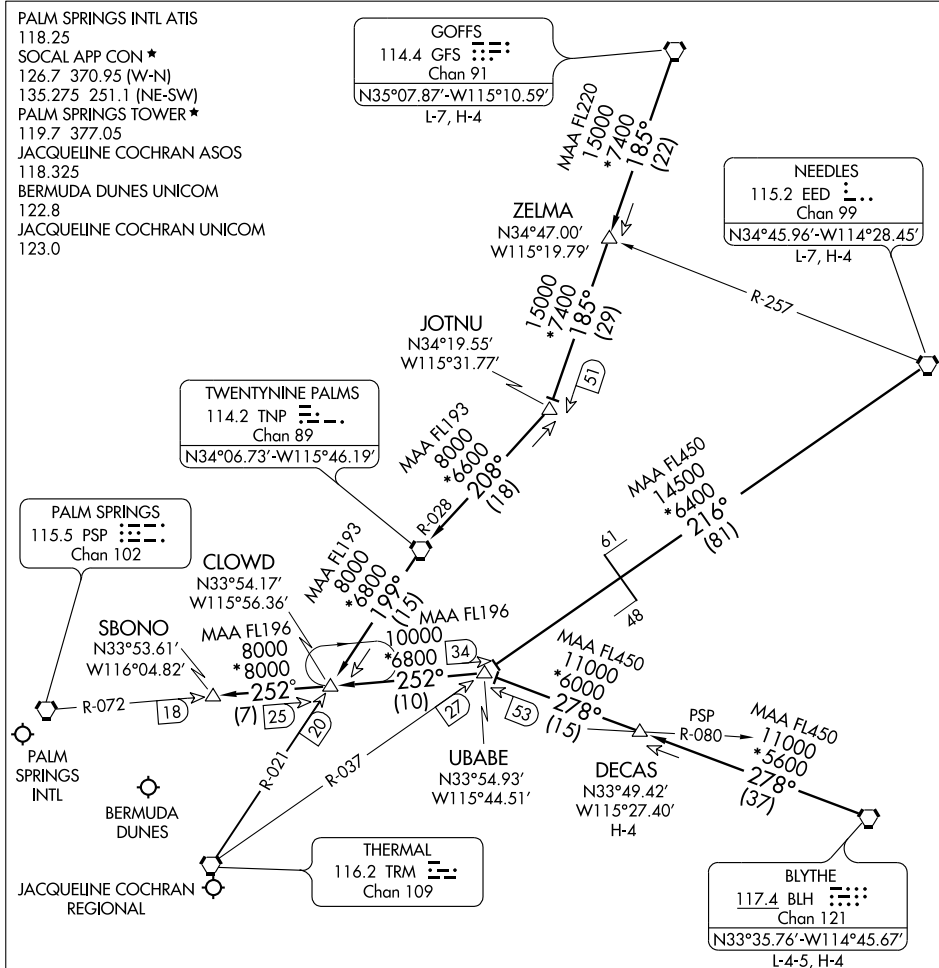
0.2 2.2 2.6 NM 5 NM 8.8 NM

MAP RIPSE FAF RODGE OPOSE

OVOTE 5 NM to RODGE

CATEGORY	A	B	C	D
RNAV MDA	700-1 824 (900-1)	700-1¼ 824 (900-1¼)	700-2½ 824 (900-2½)	700-2¾ 824 (900-2¾)
CIRCLING	700-1 814 (900-1)	700-1¼ 814 (900-1¼)	700-2½ 814 (900-2½)	700-2¾ 814 (900-2¾)

SW-3, 14 JAN 2010 to 11 FEB 2010



BLYTHE TRANSITION (BLH.SBONO1): From over BLH VORTAC via BLH R-278 and PSP R-072 to SBONO DME. Thence....

DECAS TRANSITION (DECAS.SBONO1): From over DECAS INT via BLH R-278 and PSP R-072 to SBONO DME. Thence....

GOFFS TRANSITION (GFS.SBONO1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 and PSP R-072 to SBONO DME. Thence....

NEEDLES TRANSITION (EED.SBONO1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to SBONO DME. Thence....

....From over SBONO DME expect radar vectors to final approach course.

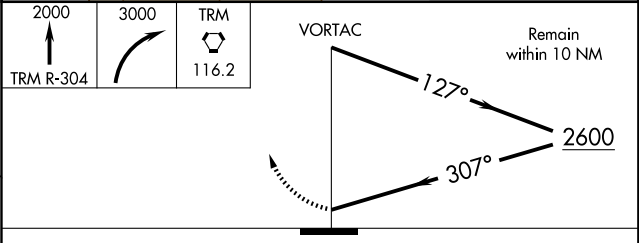
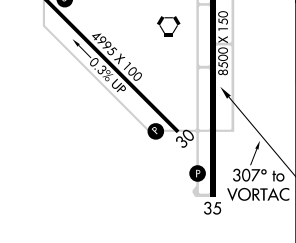
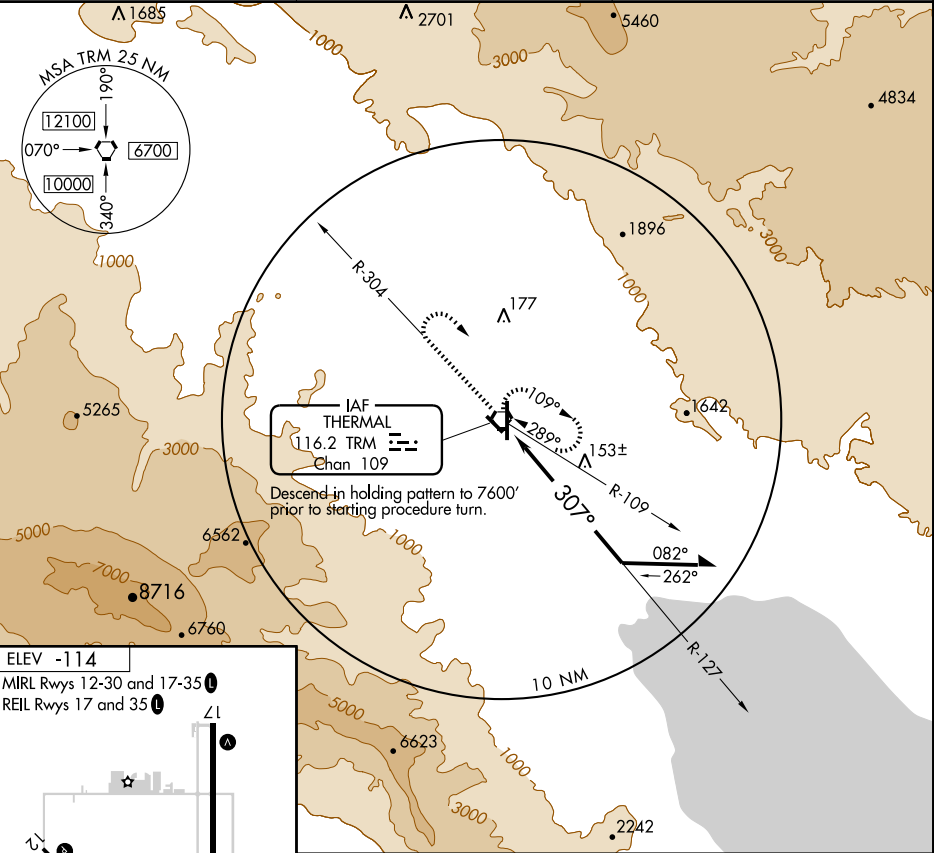
VORTAC TRM	APP CRS	Rwy Idg	N/A
116.2	307°	TDZE	N/A
Chan 109		Apt Elev	-114

VOR-A

PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

 	MISSED APPROACH: Climb to 2000 via TRM R-304 then climbing right turn to 3000 direct TRM VORTAC and hold.
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ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 123.0 (CTAF) 0
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Categories	A	B	C	D
CIRCLING	1100-1¼ 1214 (1300-1¼)	1100-1½ 1214 (1300-1½)	1100-3 1214 (1300-3)	

VORTAC TRM	APP CRS	Rwy Idg	4995
116.2	316°	TDZE	-121
Chan 109		Apt Elev	-114

PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

▼

▲ NA

MISSED APPROACH: Climb to 1300 via TRM R-316 then climbing right turn to 3000 direct TRM VORTAC and hold.

ASOS 118.325	SOCAL APP CON★ 135.275 251.1	UNICOM 123.0 (CTAF) 0
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MSA TRM 25 NM

12100, 10000, 6700, 070°, 340°, 190°

1685, 2701, 5460, 4834, 1896, 1642, 5265, 6562, 8716, 6623

1000, 3000, 5000, 7000

10 NM

R-316, R-109, R-136

MECCA TRM 6.4, TEDSE TRM 0.4, RUGNE TRM 13

316°, 177, 109°, 289°, 153±, 3900, 109° (13), 2000, 3500 to RUGNE, 3500, 316°, 316° (6.9)

(IAF) WANED TRM 13

ARC

316° 6 NM from FAF

ELEV -114

MIRL Rwy 12-30 and 17-35

REIL Rwy 17 and 35

4995 X 100

8500 X 150

TDZE -121

316° 6 NM from FAF

35

316°

0.3° UP

Knots	60	90	120	150	180
Min:Sec					

1300

3000

TRM 116.2

TRM R-316

VORTAC TEDSE TRM 0.4

TRM 1.4

MECCA TRM 6.4

RUGNE TRM 13

3500

316°

2000

3.28° TCH 45

1 NM

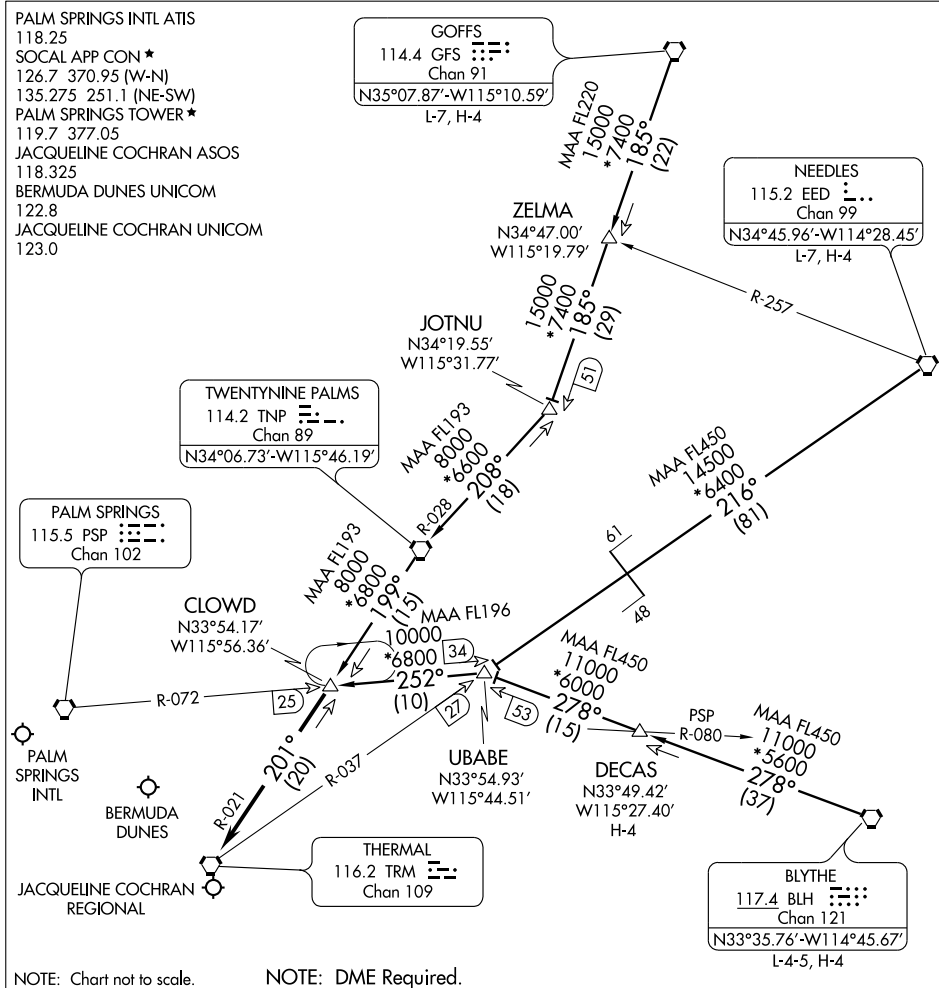
5 NM

6.6 NM

Procedure Turn NA

CATEGORY	A	B	C	D
S-30	240-1	361 (400-1)	240-1½	361 (400-1½)
CIRCLING	340-1	454 (500-1)	340-1½	500-2
			454 (500-1½)	614 (700-2)

SW-3. 14 JAN 2010 to 11 FEB 2010



NOTE: Chart not to scale.

NOTE: DME Required.

BLYTHE TRANSITION (BLH.CLOUD1): From over BLH VORTAC via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

DECAS TRANSITION (DECAS.CLOUD1): From over DECAS INT via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

GOFFS TRANSITION (GFS.CLOUD1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 to CLOUD DME. Thence....

NEEDLES TRANSITION (EED.CLOUD1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to CLOUD DME. Thence....

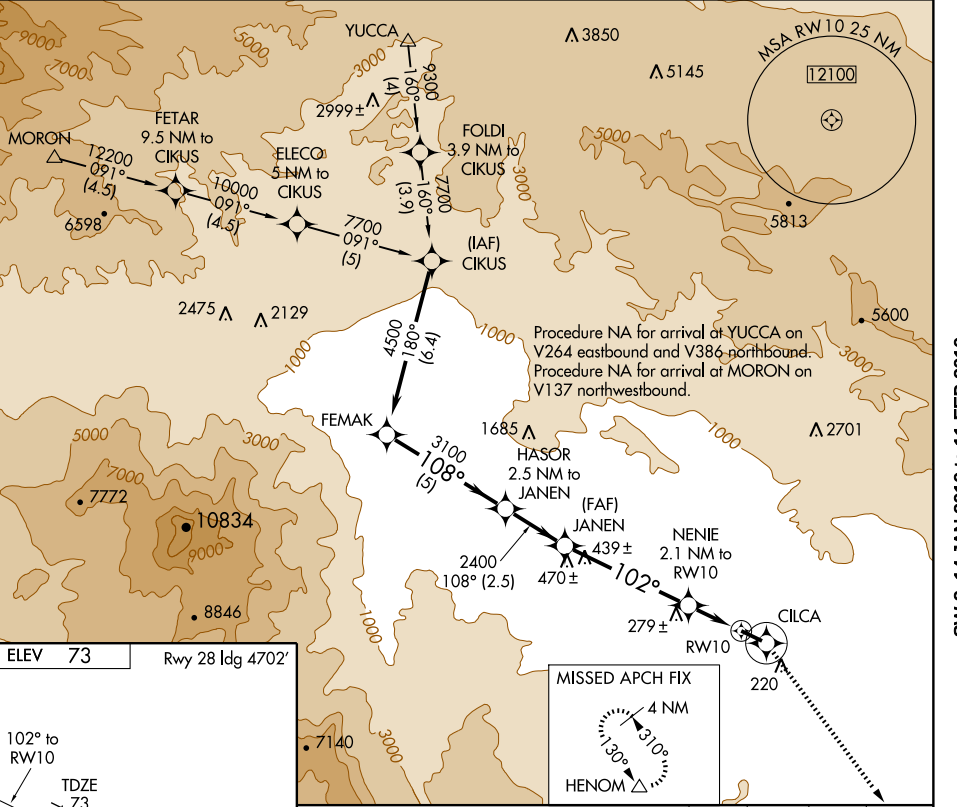
....From over CLOUD DME via TRM R-021 to TRM VORTAC. Expect radar vectors to final approach course.

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Use Jacqueline Cochran Rgnl altimeter setting.

MISSED APPROACH: Climb to 3700 direct CILCA and via 130° track to HENOM and hold.

JACQUELINE COCHRAN REGIONAL ASOS 118.325	SOCAL APP CON★ 135.275 251.1	UNICOM 122.8 (CTAF) 0
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ELEV 73

Rwy 28 Idg 4702'

102° to RW10

TDZE 73

5002 X 70

0.6% UP 0.89

REIL Rwy 28

LIRL Rwy 10-28 0

	FEMAK	HASOR 2.5 NM to JANEN	JANEN	NENIE 2.1 NM to RW10	CILCA	130° track	HENOM △
	4500	3100	2400	800			
	Procedure Turn NA		3.08° TCH 40				
	5 NM	2.5 NM	4.9 NM	2.1 NM			
CATEGORY	A	B	C	D			
RNAV MDA	480-1	407 (500-1)	480-1¼ 407 (500-1¼)	NA			
CIRCLING	700-1	627 (700-1)	700-1¼ 627 (700-1¼)	NA			

SW-3, 14 JAN 2010 to 11 FEB 2010

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Use Jacqueline Cochran Rgnl altimeter setting.

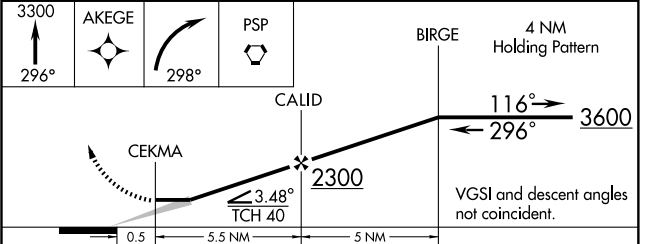
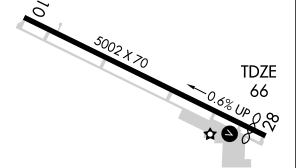
MISSED APPROACH: Climb to 3300 via course 296° to AKEGE WP then right turn via course 298° to PSP VORTAC and hold.

JACQUELINE COCHRAN REGIONAL ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 122.8 (CTAF) 0
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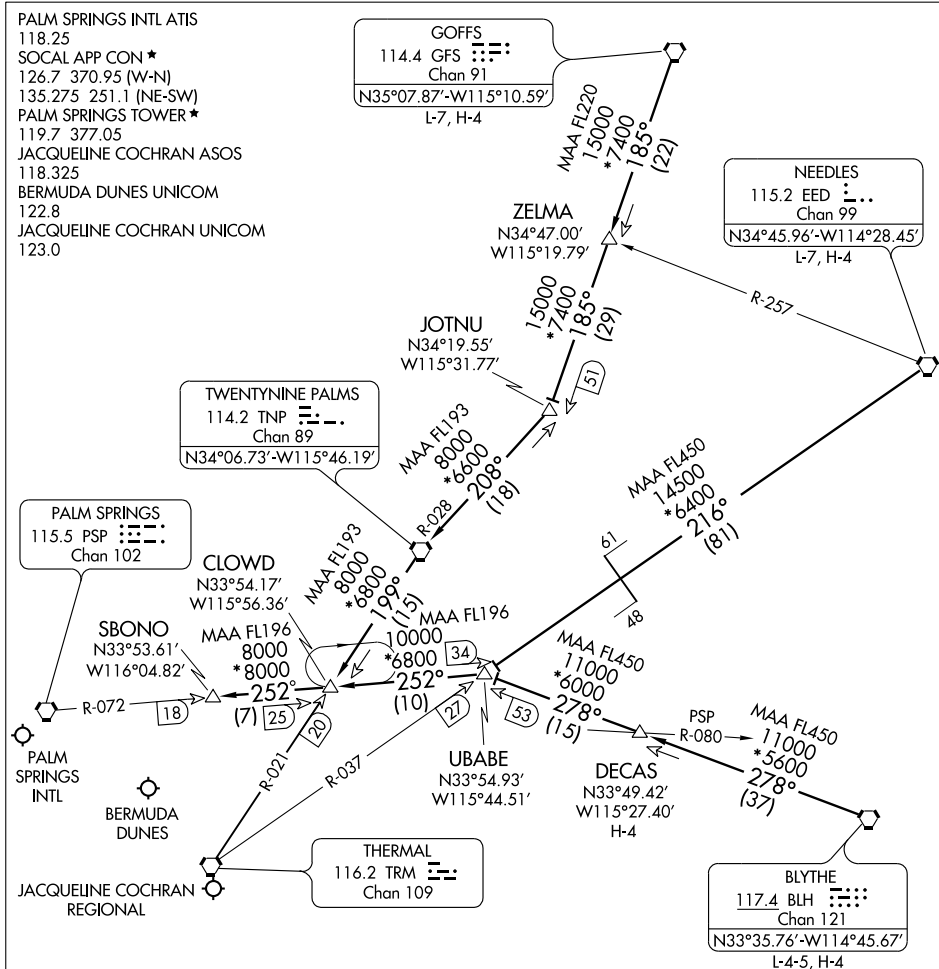


ELEV 73

Rwy 28 Idg 4702'



CATEGORY	A	B	C	D
LNNAV MDA	1020-1¼ 954 (1000-1¼)	1020-1½ 954 (1000-1½)	1020-3 954 (1000-3)	NA
CIRCLING	1020-1¼ 947 (1000-1¼)	1020-1½ 947 (1000-1½)	1020-3 947 (1000-3)	NA



SW-3. 14 JAN 2010 to 11 FEB 2010

BLYTHE TRANSITION (BLH.SBONO1): From over BLH VORTAC via BLH R-278 and PSP R-072 to SBONO DME. Thence....

DECAS TRANSITION (DECAS.SBONO1): From over DECAS INT via BLH R-278 and PSP R-072 to SBONO DME. Thence....

GOFFS TRANSITION (GFS.SBONO1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 and PSP R-072 to SBONO DME. Thence....

NEEDLES TRANSITION (EED.SBONO1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to SBONO DME. Thence....

....From over SBONO DME expect radar vectors to final approach course.

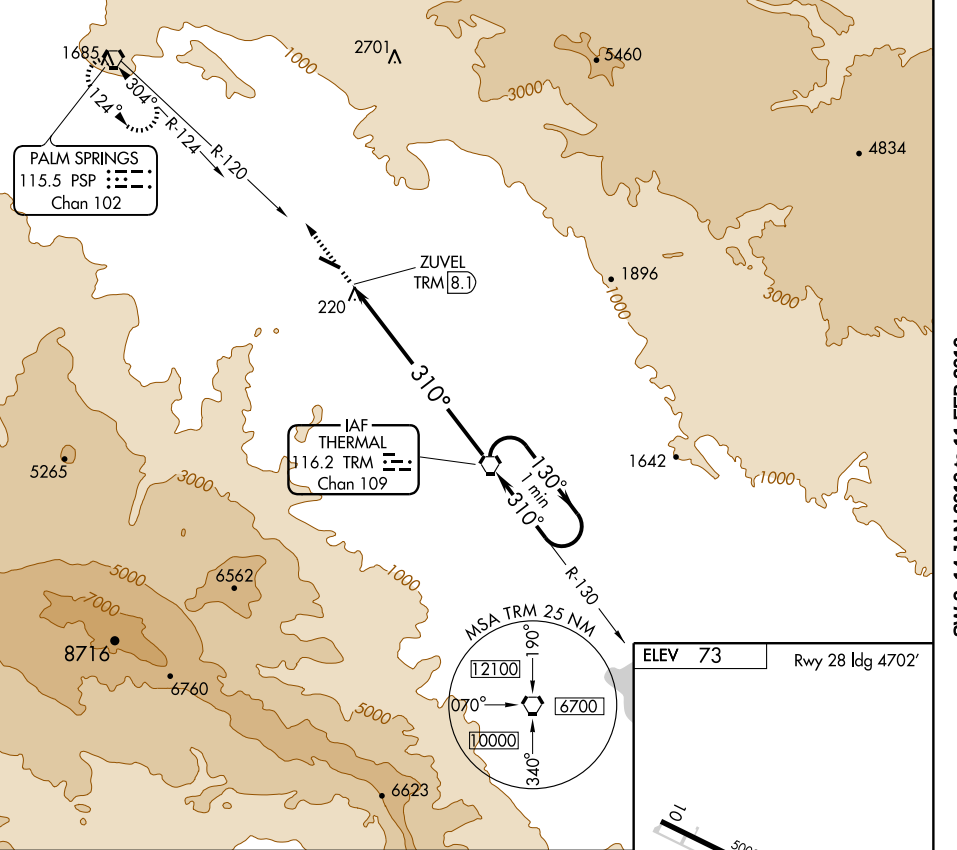
V

NA

Use Jacqueline Cochran Rgnl altimeter setting.

MISSED APPROACH: Climb to 3300 via PSP R-120 to PSP VORTAC and hold.

JACQUELINE COCHRAN REGIONAL ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 122.8 (CTAF) 0
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3300

PSP

↑

PSP R-120

115.5

ZUVEL

TRM 8.1

VORTAC

One Minute Holding Pattern

130°

310°

2900

0.8

8.1 NM

CATEGORY

A

B

C

D

CIRCLING

920-1
847 (900-1)

920-1¼
847 (900-1¼)

920-2½
847 (900-2½)

NA

FAF to MAP 8.1 NM

Knots	60	90	120	150	180
Min:Sec	8:06	5:24	4:03	3:14	2:42

ELEV 73

Rwy 28 Idg 4702'

101

5002 X 70

0.6% UP 0.88

310° 8.9 NM from FAF

REIL Rwy 28

URL Rwy 10-28 0

SW-3, 14 JAN 2010 to 11 FEB 2010



LOCALIZER I-PMD
110.7

APCH CRS
251°

Rwy Idg **12,002**
TDZE
2503
Arpt Elev **2543**

JAL-310 [USAF]

PALMDALE REGIONAL/USAF PLANT 42 (KPMD)

▼ * Circling S of Rwy 7-25 not authorized for CAT E aircraft.

MISSED APPROACH: Climb to 3000 then climbing right turn to 5000 via PMD R-298 to FISCH INT and hold.

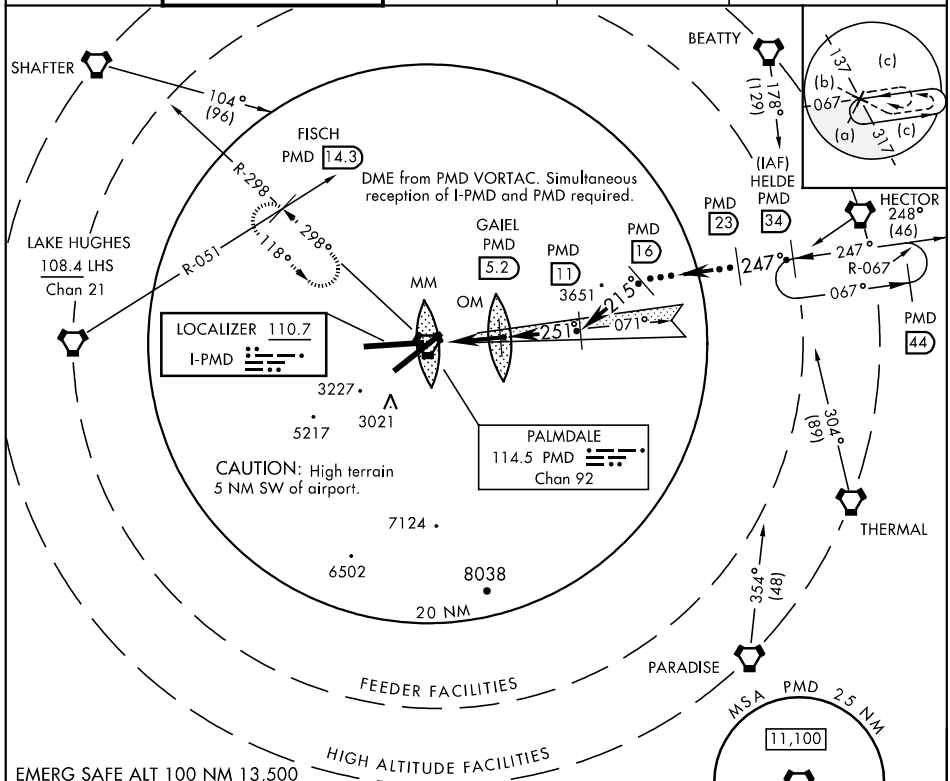
JOSHUA APP CON
124.55 363.0

PALMDALE TOWER ★
123.7 317.6

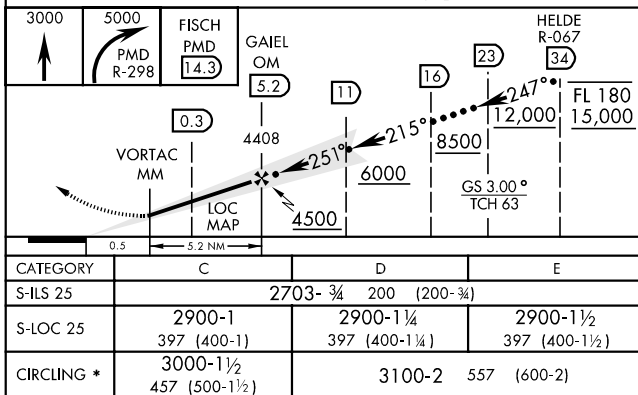
GND CON
121.9 348.6

CTAF
123.7

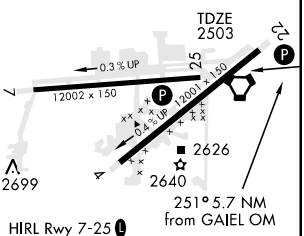
RADAR VECTORING ASOS
118.275



EMERG SAFE ALT 100 NM 13,500



ELEV 2543



TACAN Chan 92	PMD 247°	APCH CRS 247°	Rwy Idg TDZE Arprt Elev 12,002 2503 2543
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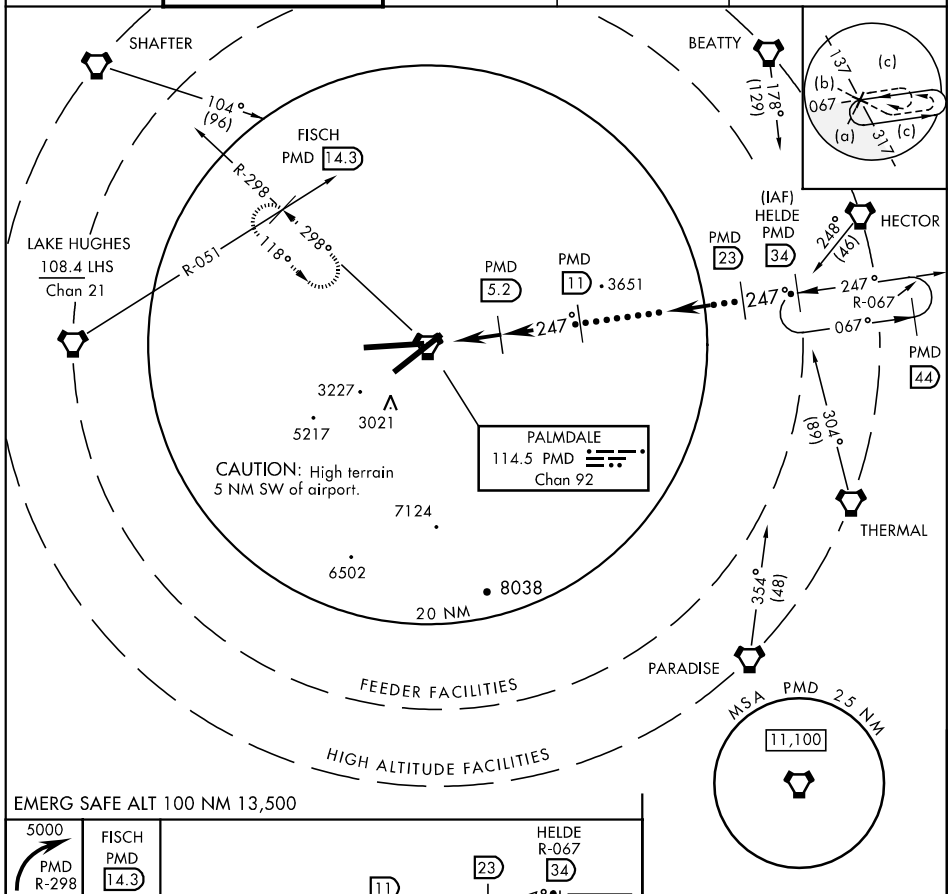
JAL-310 [USAF]

PALMDALE REGIONAL USAF PLANT 42 (KPMO)

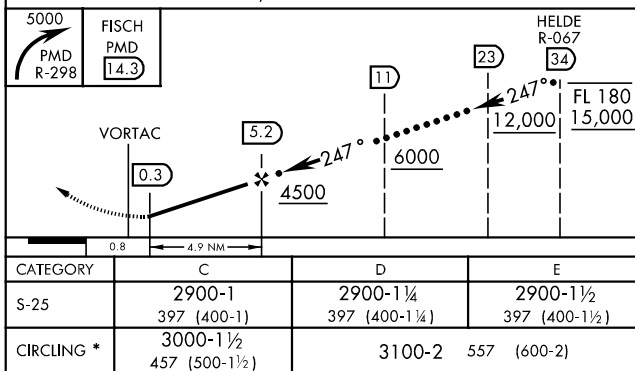
▼ * Circling S of Rwy 7-25 not authorized for CAT E aircraft.

MISSED APPROACH: Climbing right turn to 5000 via PMD R-298 to FISCH INT and hold.

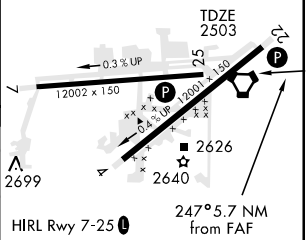
JOSHUA APP CON	PALMDALE TOWER *	GND CON	CTAF	RADAR VECTORING ASOS
124.55 363.0	123.7 317.6	121.9 348.6	123.7	118.275



EMERG SAFE ALT 100 NM 13,500



ELEV 2543



LOC I-PMD <u>110.7</u>	APP CRS 251°	Rwy Idg 12002 TDZE 2503 Apt Elev 2543
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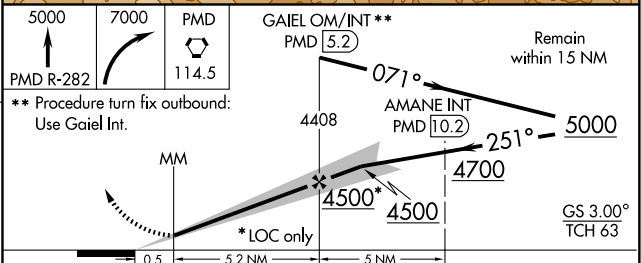
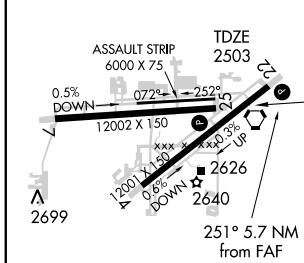
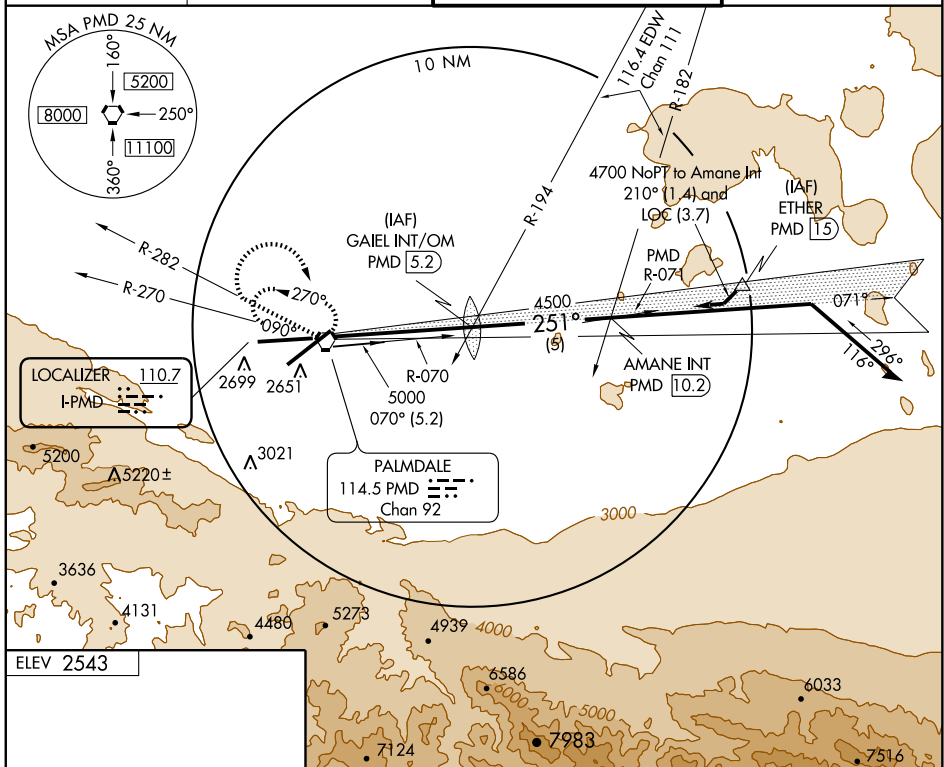
ILS or LOC RWY 25

PALMDALE RGNL/USAF PLANT 42 (PMD)

Circling NA south of Rwy 7-25 for Cat. E.
Circling to Rwy 7 NA at night.

MISSED APPROACH: Climb to 5000 via PMD R-282, then climbing right turn to 7000 direct PMD VORTAC and hold.

ASOS 118.275	JOSHUA APP CON 124.55 363.0	PALMDALE TOWER ★ 123.7 (CTAF) 0 317.6	GND CON 121.9 348.6
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HIRL Rwy 4-22 and 7-25 							CATEGORY		A		B		C		D		E	
							S-ILS 25		2703-1 200 (200-1)									
							S-LOC 25		2900-1 397 (400-1)									
FAF to MAP 5.7 NM													2900-1¼ 397 (400-1¼)		2900-1½ 397 (400-1½)			
Knots		60	90	120	150	180	CIRCLING		3000-1 457 (500-1)			3000-1½ 457 (500-1½)		3100-2 557 (600-2)				
Min:Sec		5:42	3:48	2:51	2:17	1:54												

APP CRS	Rwy Idg	12002
251°	TDZE	2503
	Apt Elev	2543

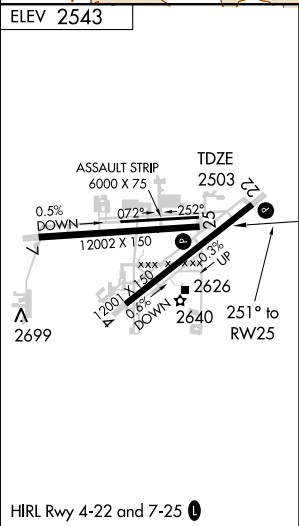
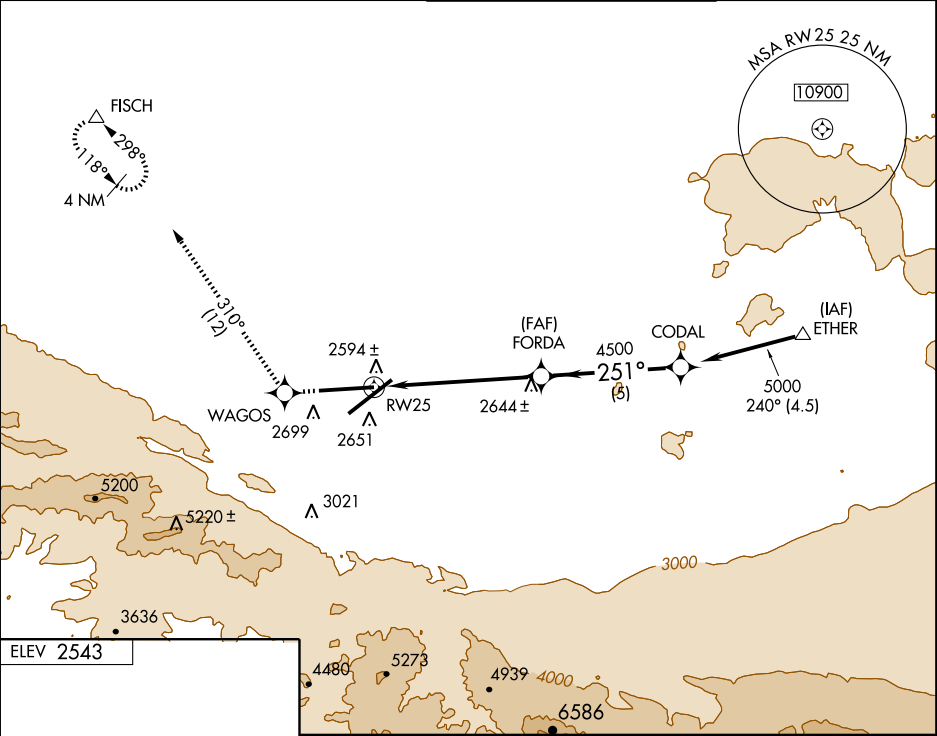
RNAV (GPS) RWY 25

PALMDALE RGNL/USAF PLANT 42 (PMD)

⚠ Circling to Rwy 7 NA at night. DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -20°C (-4°F) or above 44° C (111°F) .

MISSED APPROACH: Climb to 5000 direct WAGOS WP then
via 310° track to FISCH WP and hold.

ASOS 118.275	JOSHUA APP CON 124.55 363.0	PALMDALE TOWER ★ 123.7 (CTAF) 0 317.6	GND CON 121.9 348.6
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5000	WAGOS	310° track	FISCH	FORDA	CODAL	5000
						Procedure Turn NA
						GS 3.00° TCH 58
*LNAV only	*1.1 NM to RW25					
1.1	4.9 NM	5 NM				
CATEGORY	A	B	C	D		
GLS PA DA						
LNAV/VNAV DA						
LNAV MDA						
CIRCLING						

VORTAC PMD 114.5 Chan 92	APP CRS 265°	Rwy Idg TDZE Apt Elev 12002 2503 2543
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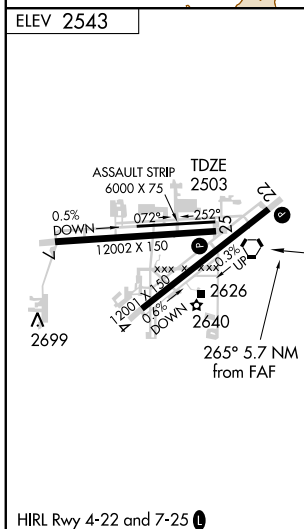
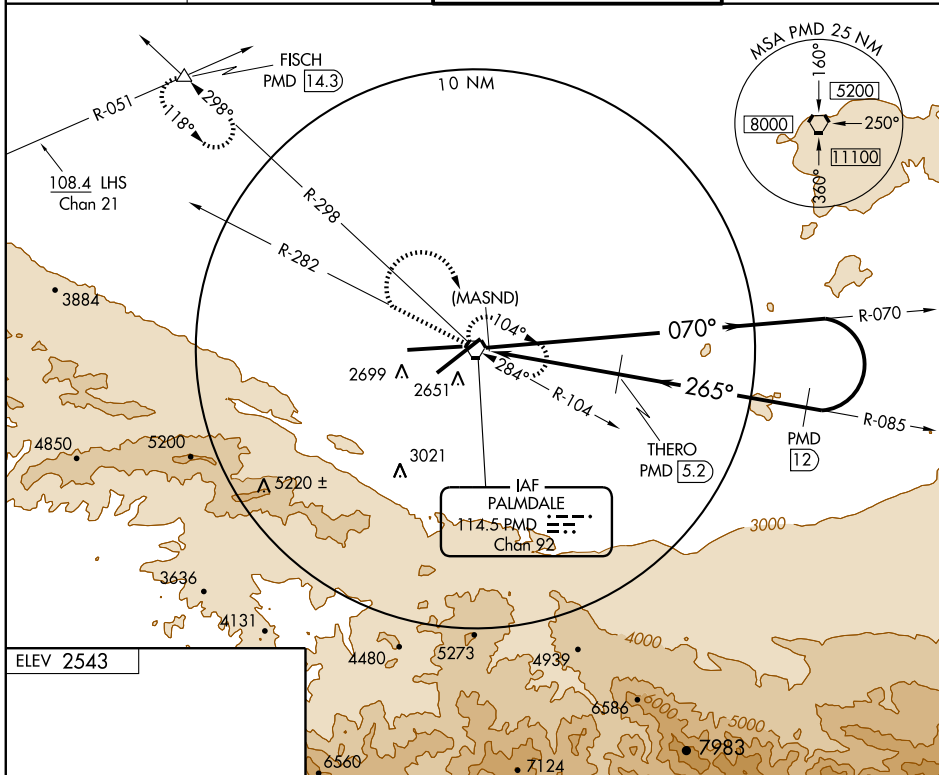
VOR/DME or TACAN RWY 25

PALMDALE RGNL/USAF PLANT 42 (PMD)

⚠ Circling NA South of Rwy 7-25 for Cat. E.
Circling to Rwy 7 NA at night.

MISSED APPROACH: Climb to 5000 via PMD R-282 then climbing right turn to 7000 direct PMD VORTAC and hold. (TACAN aircraft climbing right turn to 5000 via R-298 to FISCH Int/14.3 DME and hold SE left turn 298° inbound.)

ASOS 118.275	JOSHUA APP CON 124.55 363.0	PALMDALE TOWER ★ 123.7 (CTAF) 317.6	GND CON 121.9 348.6
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ELEV 2543		5000 ↑ PMD R-282		7000 ↻ PMD 114.5	VORTAC 070° THERO PMD 5.2 MASND PMD 0.5 PMD 12 265° 5000 5000 4400 Remain within 15 NM of PMD VORTAC	
CATEGORY		A	B	C	D	E
S-25		2900-1¼ 397 (400-1¼)				2900-1½ 397 (400-1½)
CIRCLING		3000-1¼ 457 (500-1¼)		3000-1½ 457 (500-1½)		3100-2 557 (600-2)

SW-2. 14 JAN 2010 to 11 FEB 2010

GPS RWY 31

PALO ALTO ARPT OF SANTA CLARA COUNTY (PAO)

APP CRS	Rwy Idg	2443
322°	TDZE	3
	Apt Elev	3

T When control tower closed, use Norman Y. Mineta
A NA San Jose Intl altimeter setting.
Circling not authorized southwest of Rwy 13-31.

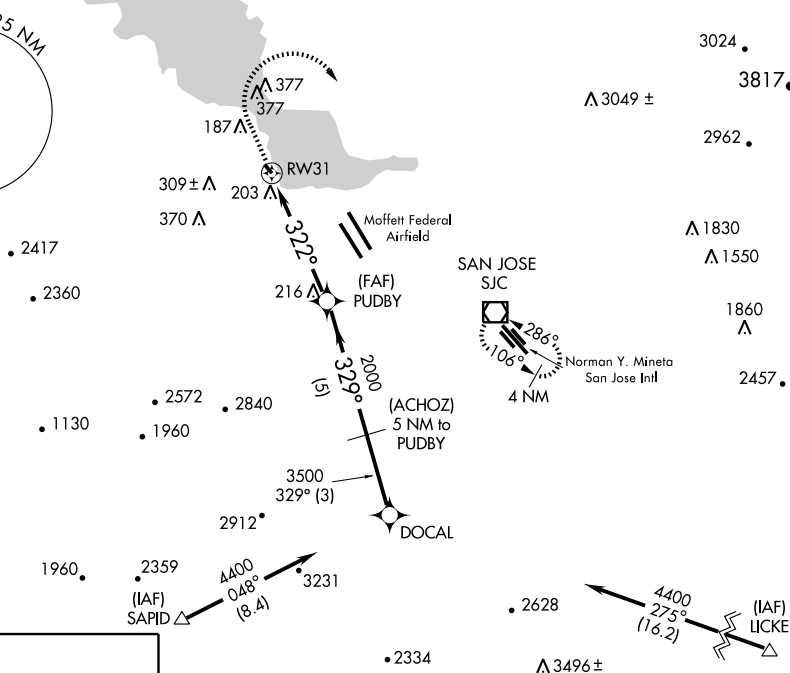
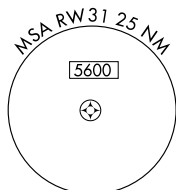
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SJC VOR/DME and hold.

ATIS
135.275

NORCAL APP CON
121.3 270.35

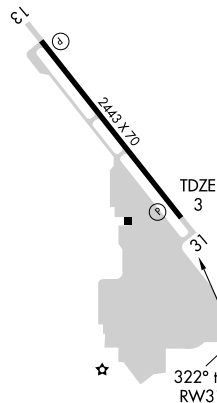
PALO ALTO TOWER★
118.6 (CTAF)

GND CON
125.0

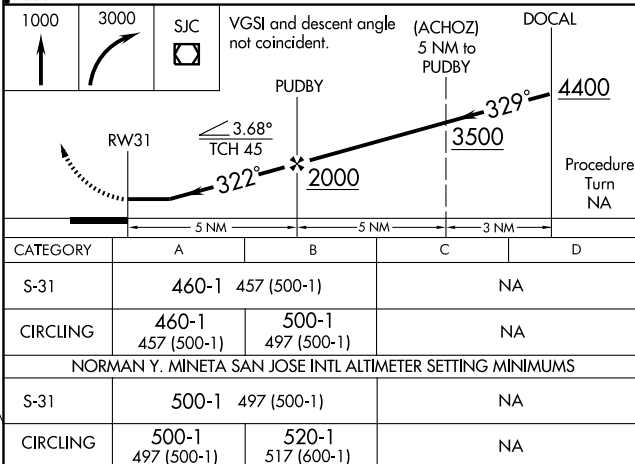
UNICOM
122.95

SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 3



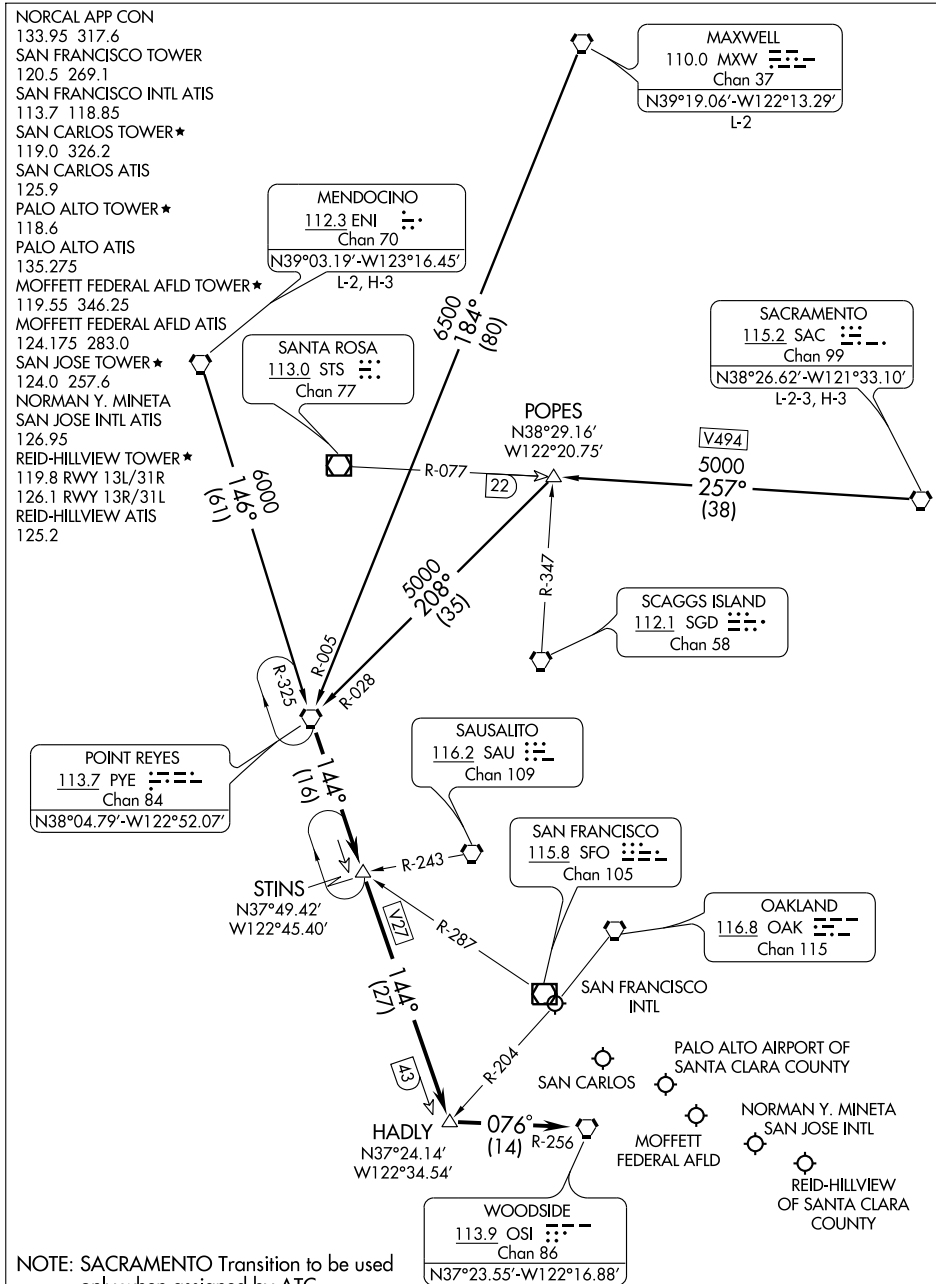
REIL Rwy 13 and 31
MIRL Rwy 13-31



POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

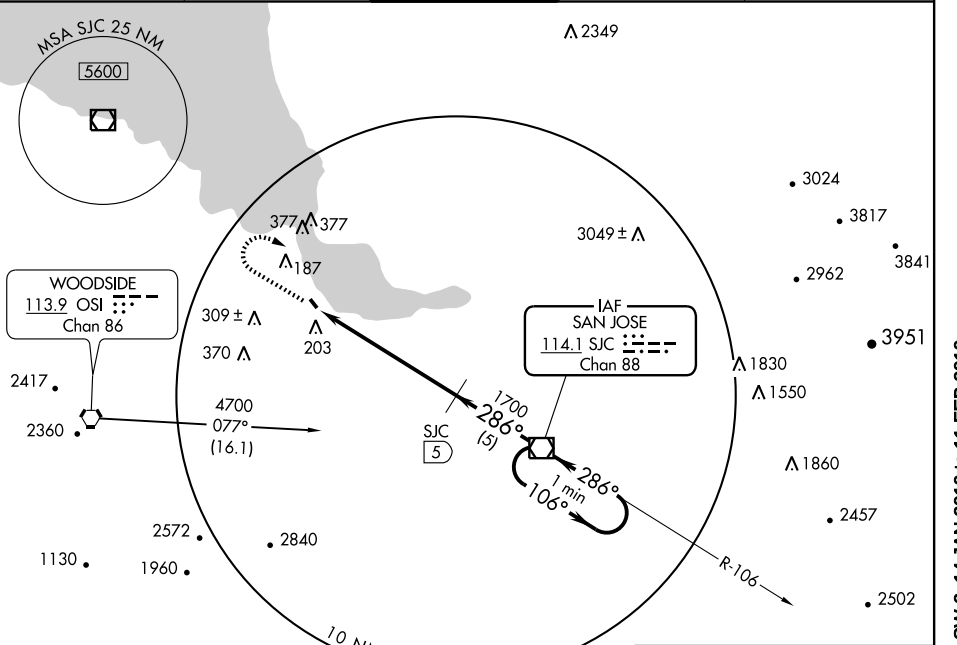
▼

▲

When control tower closed, use Norman Y. Mineta San Jose Intl altimeter setting.
Circling not authorized SW of Rwy 13-31.

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SJC VOR/DME and hold.

ATIS 135.275	NORCAL APP CON 121.3 270.35	PALO ALTO TOWER ★ 118.6 (CTAF)	GND CON 125.0	UNICOM 122.95
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ELEV 3

1000 3000 SJC 114.1

SJC 5

VOR/DME One Minute Holding Pattern

106° 286° 3000

1700

286° 4.5 NM 5 NM

CATEGORY	A	B	C	D
S-31	460-1	457 (500-1)		NA
CIRCLING	460-1 457 (500-1)	540-1 537 (600-1)		NA
NORMAN Y. MINETA SAN JOSE INTL ALTIMETER SETTING MINIMUMS				
S-31	500-1	497 (500-1)		NA
CIRCLING	500-1 497 (500-1)	580-1 577 (600-1)		NA

REIL Rwy 13 and 31

MIRL Rwy 13-31

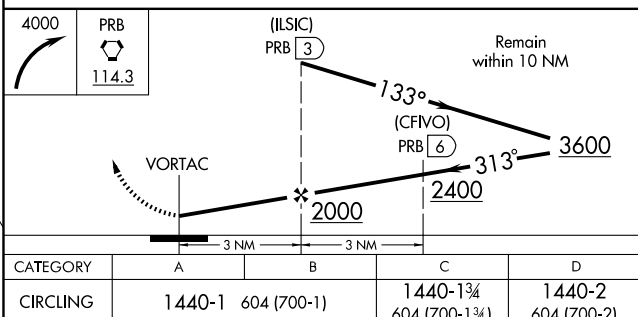
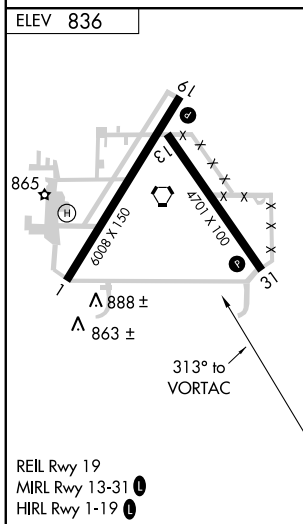
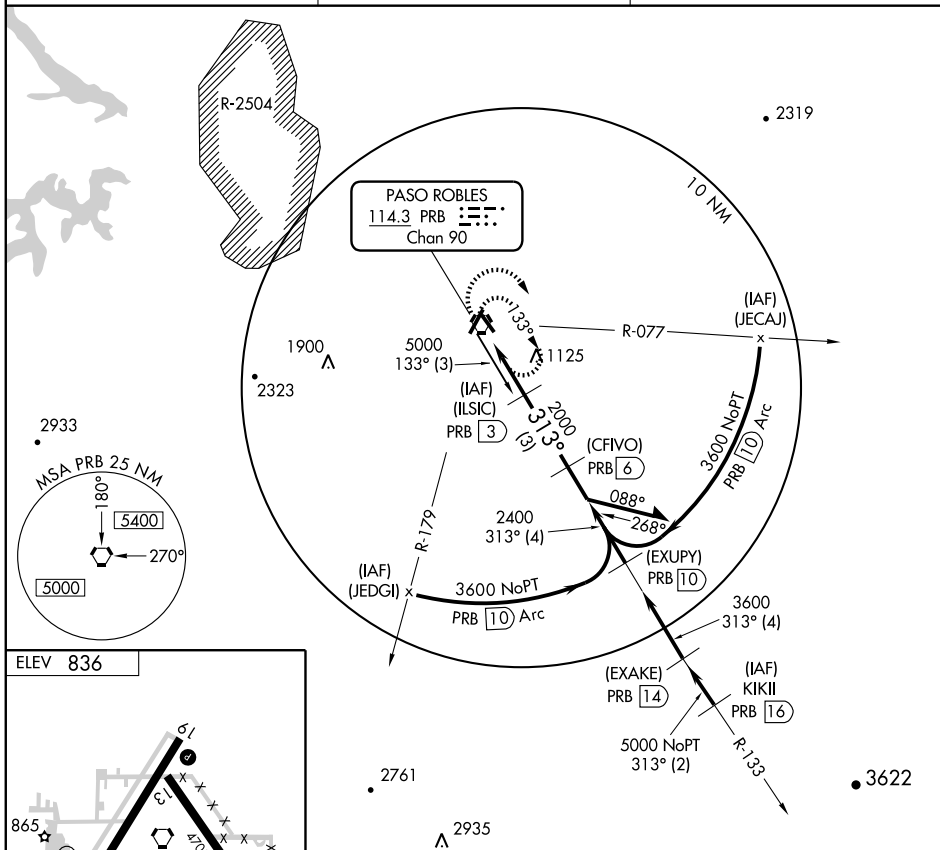
VORTAC PRB 114.3 Chan 90	APP CRS 313°	Rwy Idg TDZE Apt Elev	N/A N/A 836
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VOR/DME or GPS-B
PASO ROBLES MUNI (PRB)

MISSED APPROACH: Climbing right turn to 4000 in PRB VORTAC holding pattern.

ASOS
120,125

OAKLAND CENTER
128.7 307.0

UNICOM
123.0 (CTAF) **L**

VORTAC PRB 114.3 Chan 90	APP CRS 172°	Rwy Idg 6009 TDZE 810 Apt Elev 836
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VOR/DME or GPS RWY 19
PASO ROBLES MUNI (PRB)

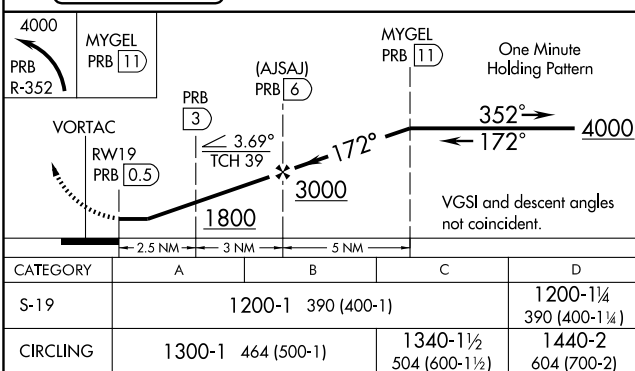
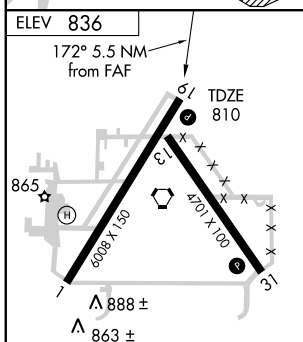
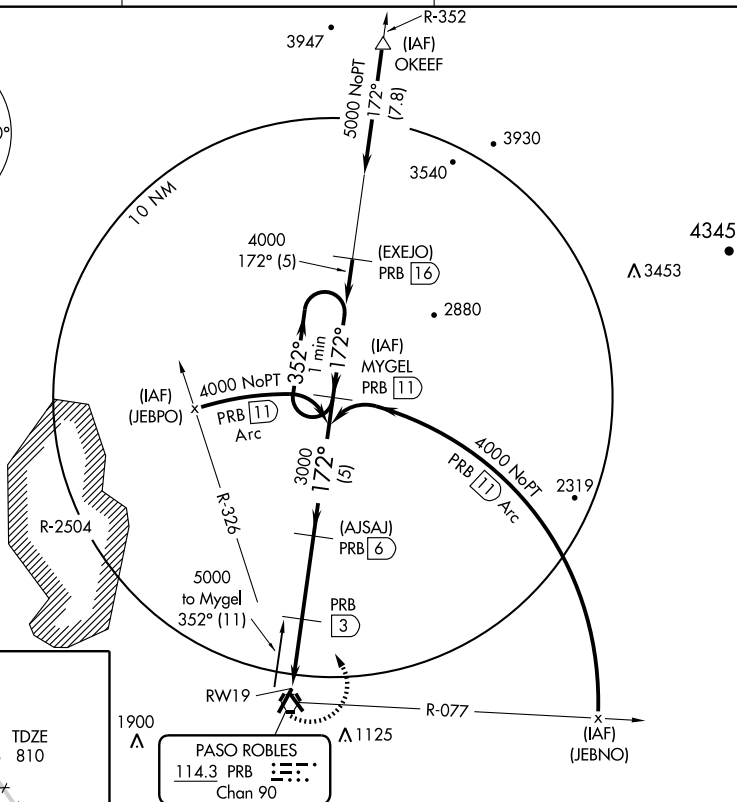
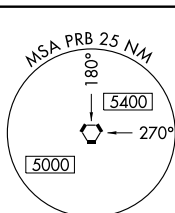
PASO ROBLES MUNI (PRB)



MISSED APPROACH: Climbing left turn to 4000 via PRB R-352 to MYGEL/11 DME and hold.

ASOS
120.125

OAKLAND CENTER
128.7 307.0

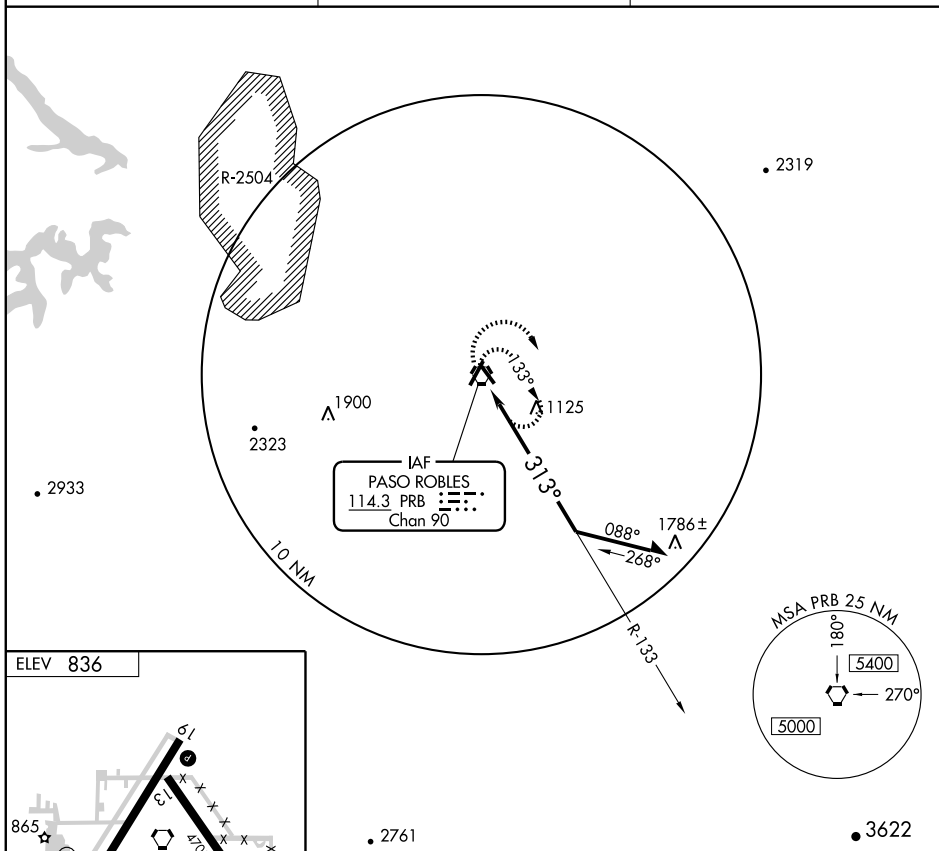
UNICOM
123.0 (CTAF) **L**

REIL Rwy 19
MIRL Rwy 13-31 **L**
HIRL Rwy 1-19 **L**

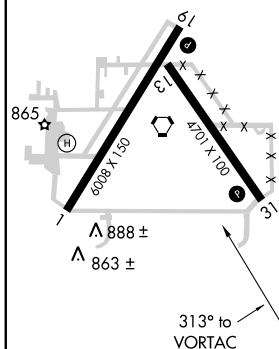
MISSED APPROACH: Climbing right turn to 4000 in PRB VORTAC holding pattern.

ASOS
120,125

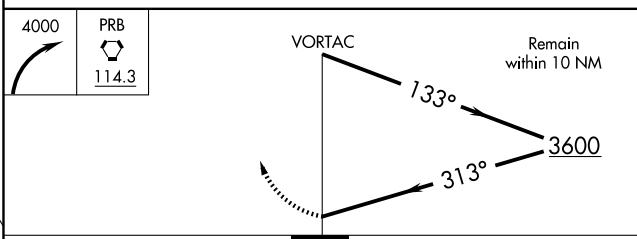
OAKLAND CENTER
128.7 307.0

UNICOM
123.0 (CTAF) **L**

ELEV 836



REIL Rwy 19
MIRL Rwy 13-31 **L**
HIRL Rwy 1-19 **L**



CATEGORY	A	B	C	D
CIRCLING	2100-1¼ 1264 (1300-1¼)	2100-1½ 1264 (1300-1½)	2100-3	1264 (1300-3)

APP CRS 290°	Rwy Idg TDZE Apt Elev	3601 87 87
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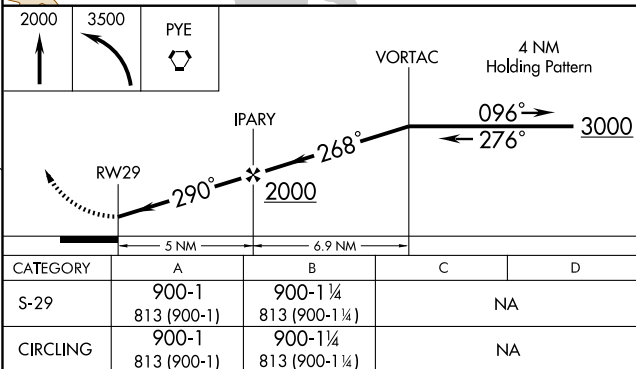
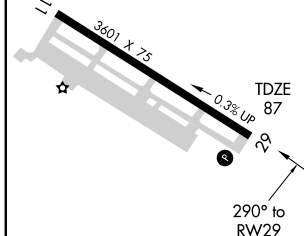
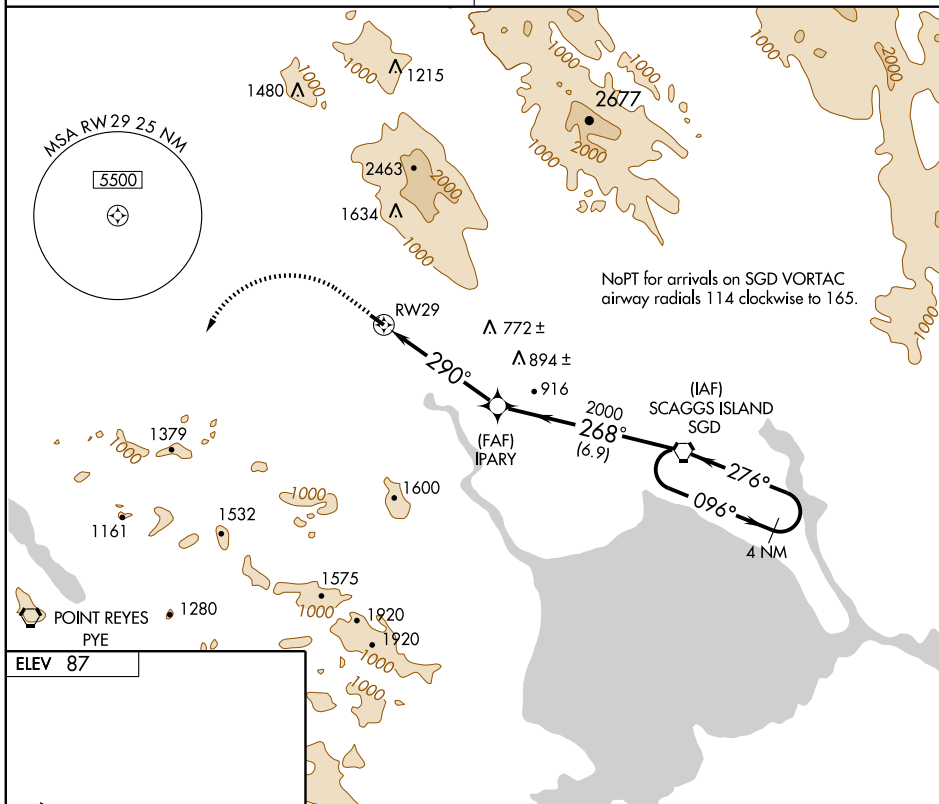
GPS RWY 29
PETALUMA MUNI (O69)

	Use Santa Rosa altimeter setting; when not received
 NA	procedure not authorized.

MISSED APPROACH: Climb to 2000, then climbing left turn to 3500 direct to PYE VORTAC.

OAKLAND CENTER
127.8 353.5

UNICOM
122.7 (CTAF) **L**



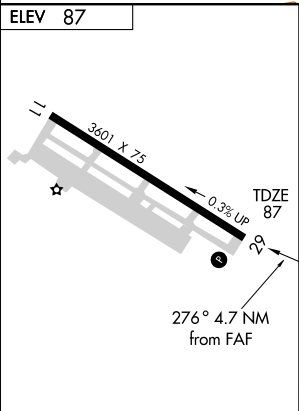
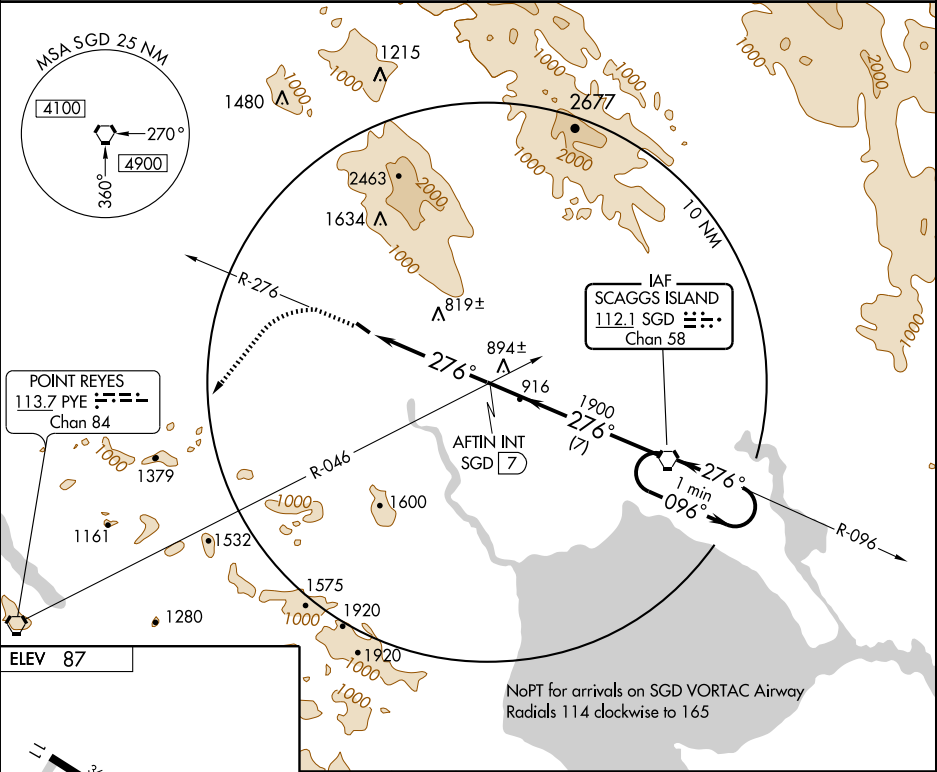
VORTAC SGD	APP CRS	Rwy Idg	3601
112.1	276°	TDZE	87
Chan 58		Apt Elev	87

VOR RWY 29
PETALUMA MUNI (069)

Use Santa Rosa altimeter setting; when not received, procedure not authorized.

MISSED APPROACH: Climb to 2000 via SGD R-276 then climbing left turn to 3500 direct PYE VORTAC.

OAKLAND CENTER 127.8 353.5	UNICOM 122.7 (CTAF)
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MIRL Rwy 11-29

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

2000 ↑ SGD R-276 3500 ↖ PYE 113.7	AFTN INT SGD 7 SGD 11.7 4.7 NM 7 NM			VORTAC One Minute Holding Pattern 096° → 3000 ← 276°
CATEGORY	A	B	C	D
S-29	1260-1¼ 1173 (1200-1¼)	1260-1½ 1173 (1200-1½)	NA	
CIRCLING	1260-1¼ 1173 (1200-1¼)	1260-1½ 1173 (1200-1½)	NA	

APP CRS
046°

Rwy Idg
TDZE
Apt Elev

4201
2585
2585

RNAV (GPS) RWY 5

PLACERVILLE (PVF)

▼

▲ NA

Circling NA northwest of Rwy 5-23.
DME/DME RNP- 0.3 NA.

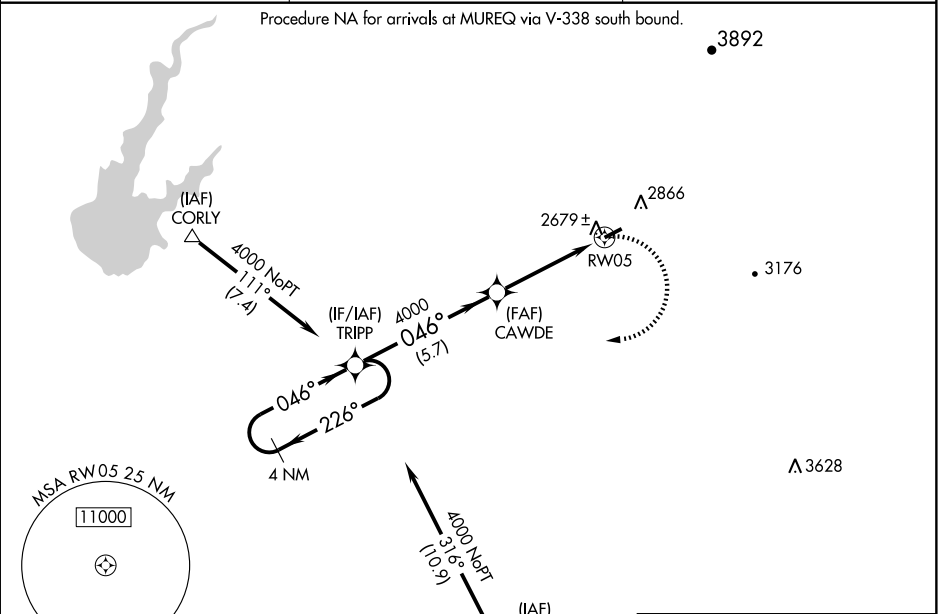
Obtain local altimeter setting on CTAF, when not received use Sacramento Mather altimeter setting.
VDP NA with Sacramento Mather altimeter setting.

MISSED APPROACH: Climbing right turn to 4500 direct TRIPP and hold.

AW05-3
128.125

NORCAL APP CON
127.4 317.5

UNICOM
122.8 (CTAF)



4 NM Holding Pattern

TRIPP

CAWDE

4500 TRIPP

4000

226°

046°

046°

4000

1.4 NM to RW05

3.03° TCH 30

2.9 NM

1.4

4201 x 75

TDZE 2585

046° to RW05

CATEGORY	A	B	C	D
LNNAV MDA	3040-1	455 (500-1)	NA	
CIRCLING	3040-1 455 (500-1)	3280-1 695 (700-1)	NA	
SACRAMENTO MATHER ALTIMETER SETTING MINIMUMS				
LNNAV MDA	3440-1 855 (900-1)	3440-1 ¼ 855 (900-1 ¼)	NA	
CIRCLING	3460-1 875 (900-1)	3700-1 ½ 1115 (1200-1 ½)	NA	

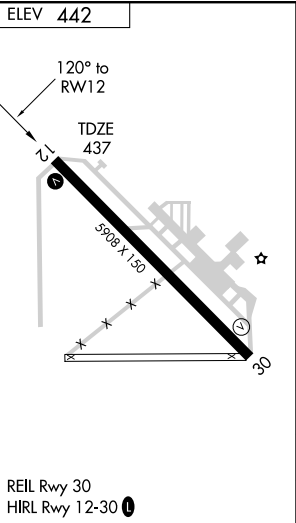
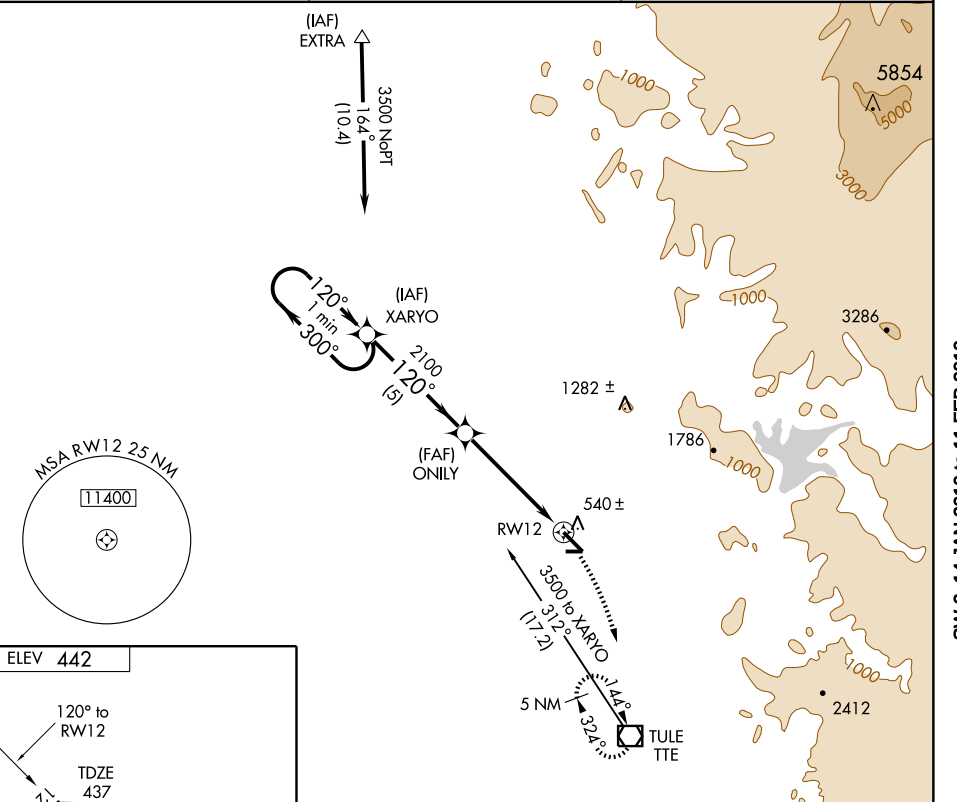
MIRL Rwy 5-23

▼

▲NA

MISSED APPROACH: Climbing right turn to 3100 direct TTE
VOR/DME and hold.

AWOS-3 134.625	BAKERSFIELD APP CON ★ 120.5	UNICOM 122.8 (CTAF) 0
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One Minute Holding Pattern				3100	TTE
CATEGORY	A	B	C	D	
S-12	800-1 363 (400-1)			800-1¼ 363 (400-1¼)	
CIRCLING	880-1 438 (500-1)	900-1 458 (500-1)	900-1½ 458 (500-1½)	1000-2 558 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS
314°

Rwy Idg 5908
TDZE 442
Apt Elev 442

GPS RWY 30
PORTERVILLE MUNI (PTV)

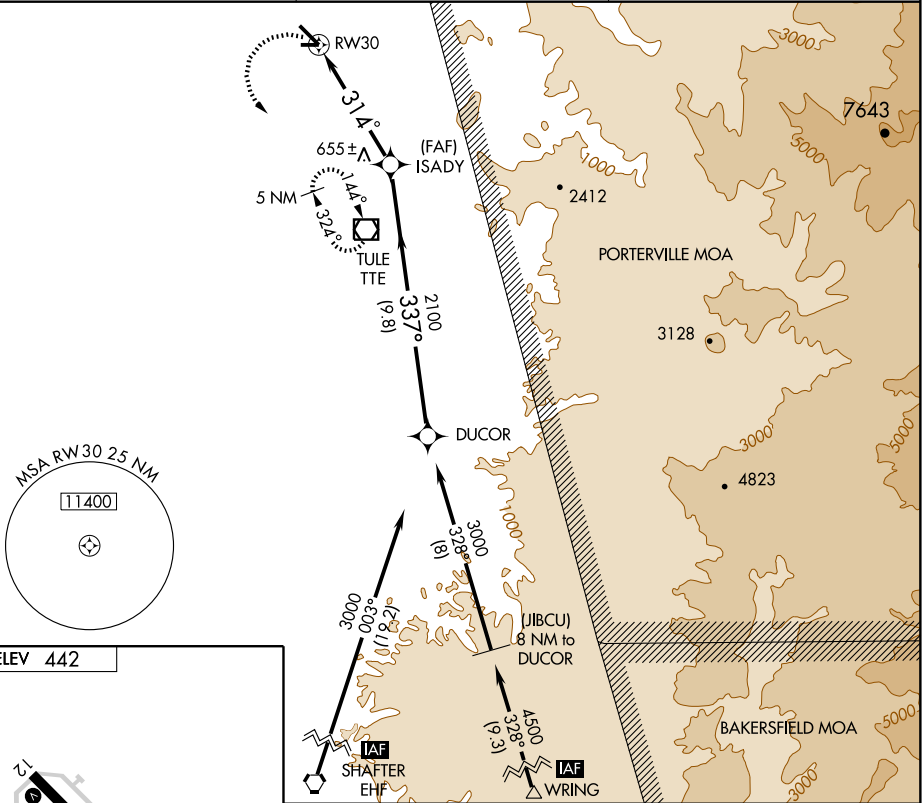
NA IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing left turn to 3100 direct TTE VOR/DME and hold.

AWOS-3
134.625

BAKERFIELD APP CON★
120.5

UNICOM
122.8 (CTAF) 0



	3100 TTE		DUCOR	
	ISADY		3000	
	RW30		314° 2100	
	5 NM		9.8 NM	
CATEGORY	A	B	C	D
S-30	900-1	458 (500-1)	900-1¼ 458 (500-1¼)	900-1½ 458 (500-1½)
CIRCLING	900-1	458 (500-1)	900-1½ 458 (500-1½)	1000-2 558 (600-2)

REIL Rwy 30
HIRL Rwy 12-30 0

VOR/DME TTE 109.2 Chan 29	APP CRS 327°	Rwy Idg TDZE Apt Elev	N/A N/A 442
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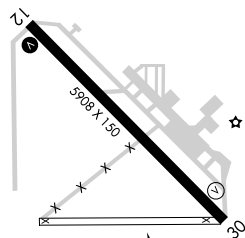
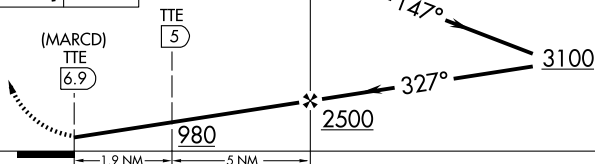
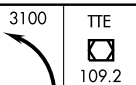
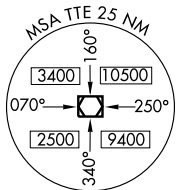
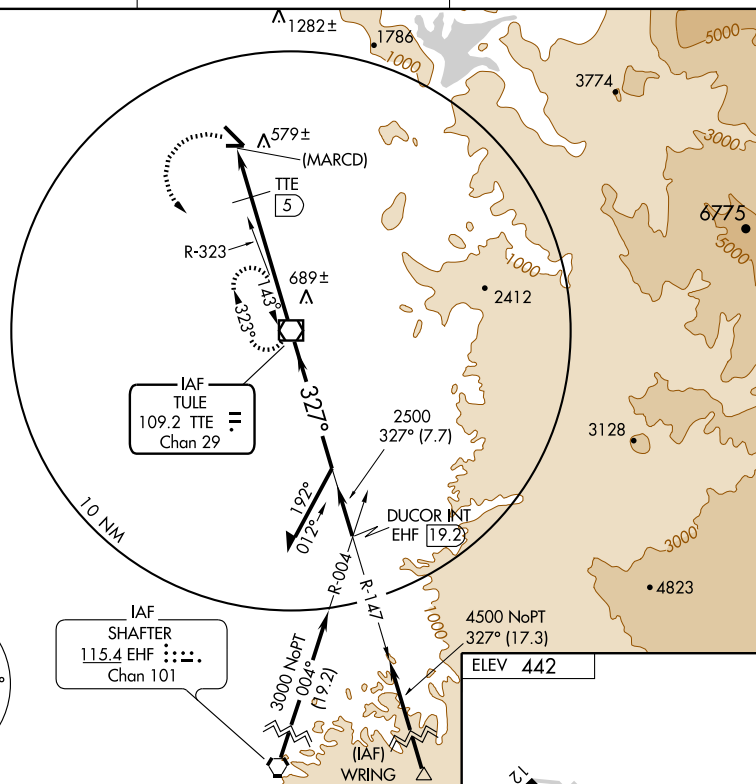
VOR or GPS-A
PORTERVILLE MUNI (PTV)

MISSED APPROACH: Climbing left turn to 3100 direct TTE VOR/DME and hold.

AWOS-3
134.625

BAKERFIELD APP CON★
120.5

UNICOM
122.8 (CTAF) **L**



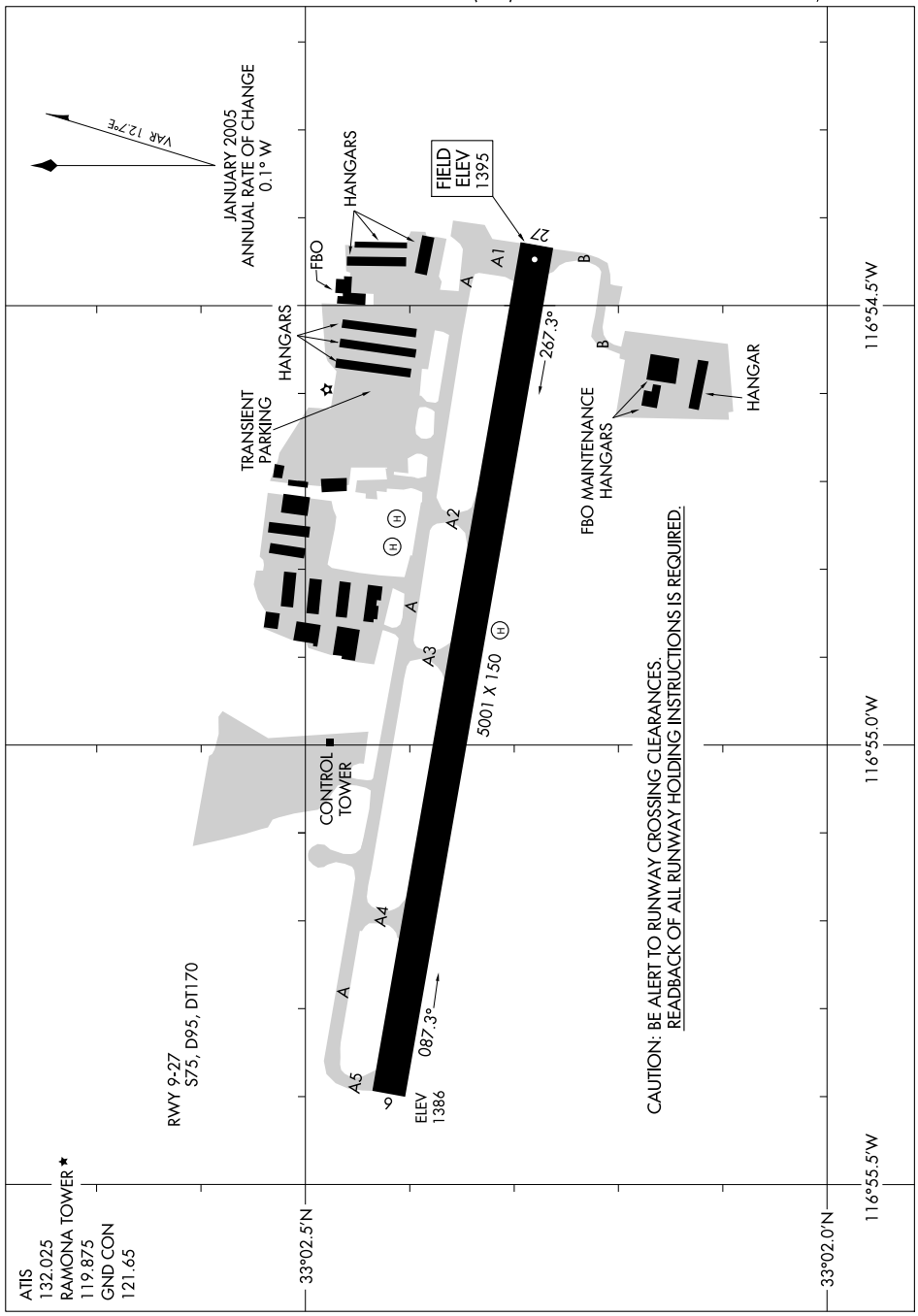
CATEGORY	A	B	C	D
CIRCLING	980-1	538 (600-1)	980-1½ 538 (600-1½)	1000-2 558 (600-2)
DME MINIMA				
CIRCLING	880-1 438 (500-1)	900-1 458 (500-1)	900-1½ 458 (500-1½)	1000-2 558 (600-2)

FAF to MAP 6.9 NM					
Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

AIRPORT DIAGRAM

AL-6667 (FAA)

RAMONA (RNM)
RAMONA, CALIFORNIA



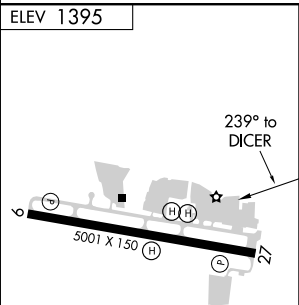
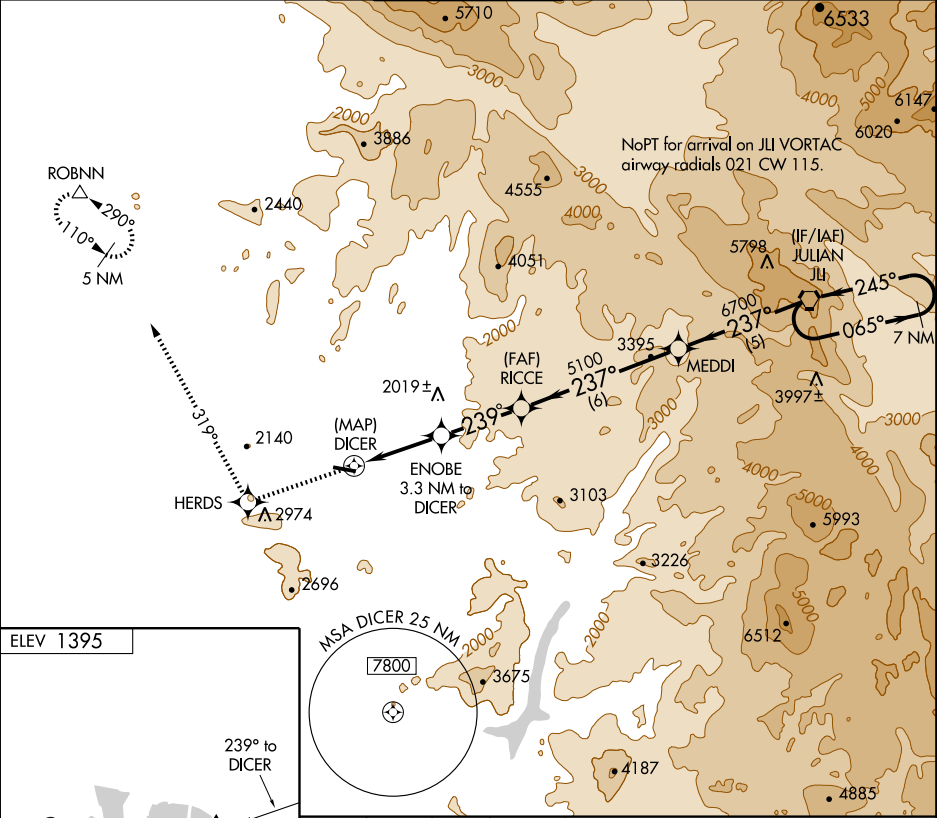
RNAV (GPS)-B
RAMONA (R.NM)

APP CRS	Rwy Idg	N/A
239°	TDZE	N/A
	Apt Elev	1395

DME/DME RNP- 0.3 NA.
Circling NA north of Rwy 9-27.
When local altimeter setting not received, use Gillespie Field
altimeter setting and increase all MDA 180 feet.

MISSED APPROACH: Climb to 5000 direct HERDS and
via track 319° to ROBNN and hold.

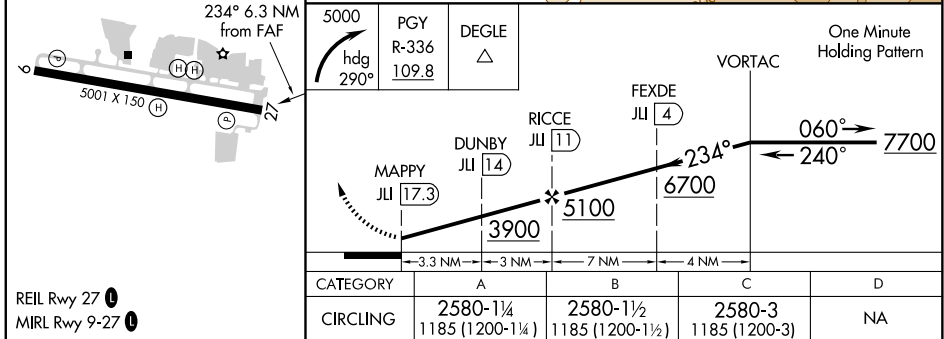
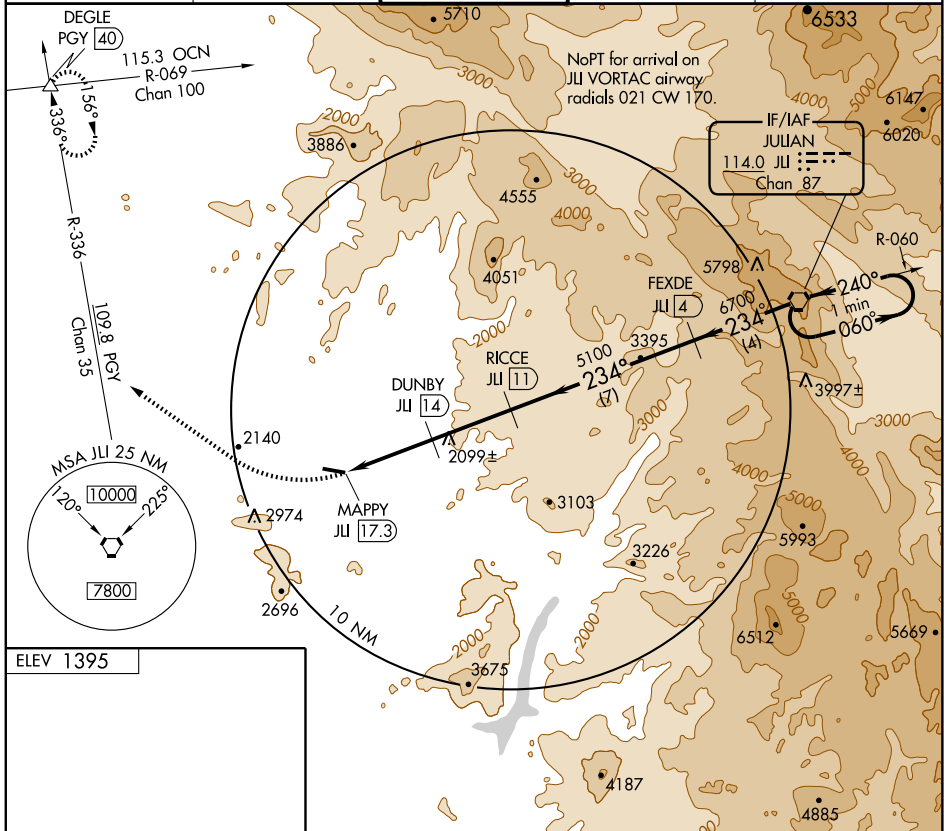
ATIS 132.025	SOCAL APP CON 132.2 269.1	RAMONA TOWER★ 119.875 (CTAF) 0	GND CON 121.65	UNICOM 122.95
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5000	HERDS	319° track	ROBNN	7 NM Holding Pattern
	ENOBE 3.3 NM to DICER	RICCE	MEDDI	VORTAC
	DICER	239° 3980	5100 6700	065°→ ←245° 7700
	3.3 NM	3 NM	6 NM	5 NM
CATEGORY	A	B	C	D
CIRCLING	2780-1¼ 1385 (1400-1¼)	2780-1½ 1385 (1400-1½)	2780-3 1385 (1400-3)	NA

REIL Rwy 27 0
MIRL Rwy 9-27 0

ATIS 132.025	SOCAL APP CON 132.2 269.1	RAMONA TOWER* 119.875 (CTAF) 0	GND CON 121.65	UNICOM 122.95
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WAAS CH 73008 W15A	APP CRS 151°	Rwy Idg 5700 TDZE 352 Apt Elev 352
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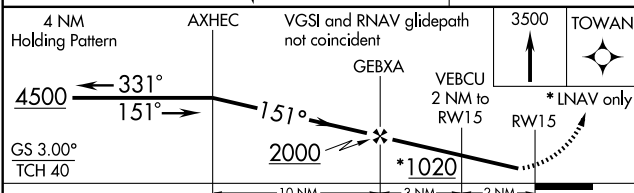
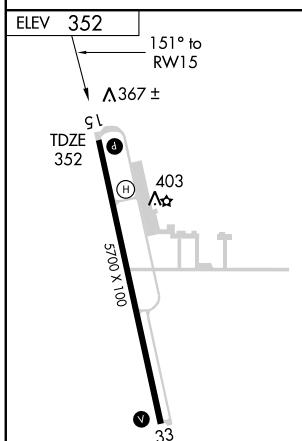
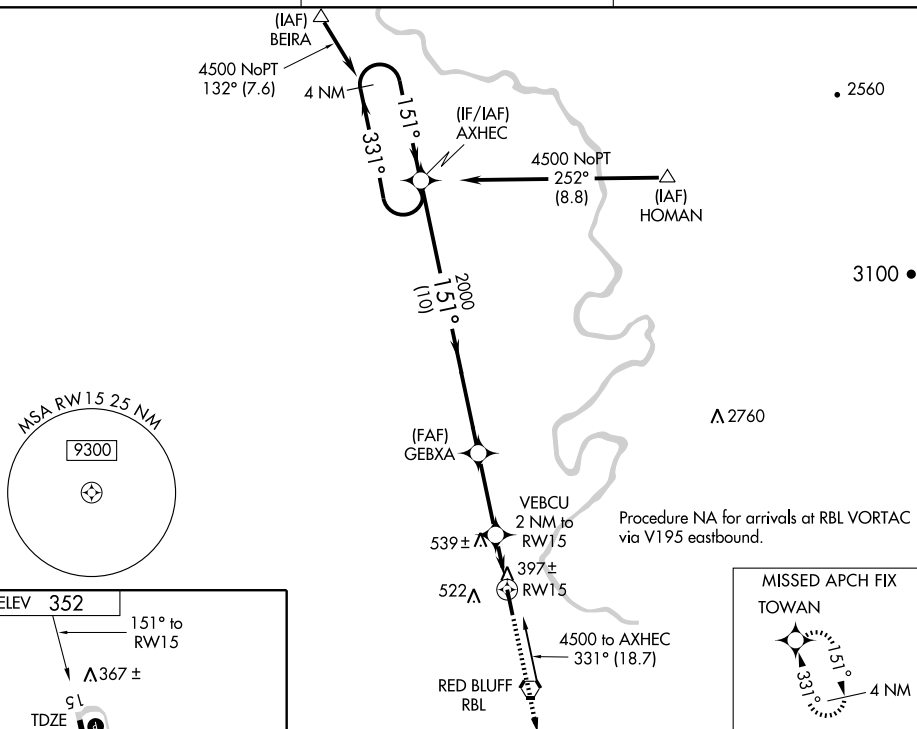
RNAV (GPS) RWY 15
RED BLUFF MUNI (RBL)

▼ Baro-VNAV NA when using Redding altimeter setting.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
 DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
 When local altimeter setting not received; use Redding altimeter setting and increase all DA/MDA 80 feet and increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ¼ mile all Cats, LNAV visibility ¼ mile Cat C and D.

MISSED APPROACH: Climb to 3500
direct TOWAN and hold.

ASOS
120.775

OAKLAND CENTER
132.2 350.3

UNICOM
123.0 (CTAF) **L**

CATEGORY		A	B	C	D
LPV	DA	602-1 250 (300-1)			
LNAV/ VNAV	DA	789-1½ 437 (500-1½)			
LNAV	MDA	820-1 468 (500-1)	820-1¼ 468 (500-1¼)		820-1½ 468 (500-1½)
CIRCLING		840-1 488 (500-1)	840-1½ 488 (500-1½)		920-2 568 (600-2)

MIRL Rwy 15-33 **L**
REIL Rwy 15 and 33

WAAS CH 42609 W33A	APP CRS 331°	Rwy Idg TDZE Apt Elev	5700 352 352
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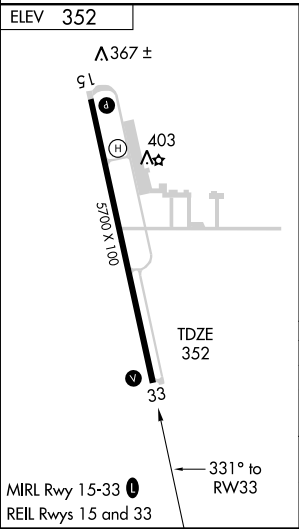
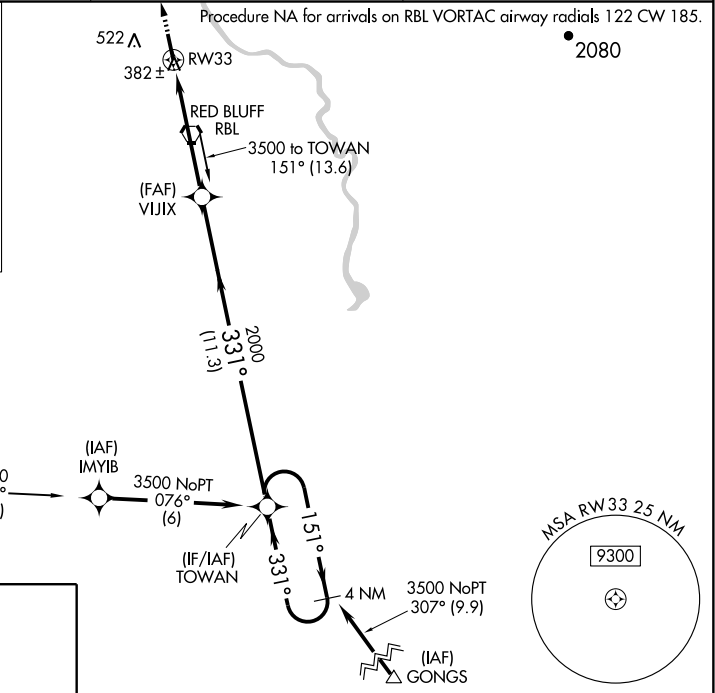
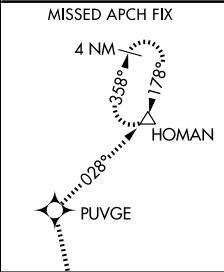
RNAV (GPS) RWY 33

RED BLUFF MUNI (RBL)

Baro-VNAV NA when using Redding altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Redding altimeter setting and increase all DA/MDA 80 feet and increase visibilities LPV ¼ mile all Cats, LNAV/VNAV ¼ mile all Cats, and LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct PUVGE and via 028° track to HOMAN and hold.

ASOS 120.775	OAKLAND CENTER 132.2 350.3	UNICOM 123.0 (CTAF)
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4000	PUVGE	028° track	HOMAN	TOWAN	4 NM Holding Pattern
			VIJIX	151° 331°	3500
			2000		GS 3.00° TCH 40
			5 NM	11.3 NM	
CATEGORY	A	B	C	D	
LPV DA		602-1	250 (300-1)		
LNAV/VNAV DA		718-1¼	366 (400-1¼)		
LNAV MDA	780-1	428 (500-1)	780-1¼ 428 (500-1¼)	780-1½ 428 (500-1½)	
CIRCLING	840-1	488 (500-1)	840-1½ 488 (500-1½)	920-2 568 (600-2)	

VORTAC RBL 115.7 Chgn 104	APP CRS 149°	Rwy Idg 5700 TDZE 352 Apt Elev 352
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VOR/DME RWY 15
RED BLUFF MUNI (RBL)

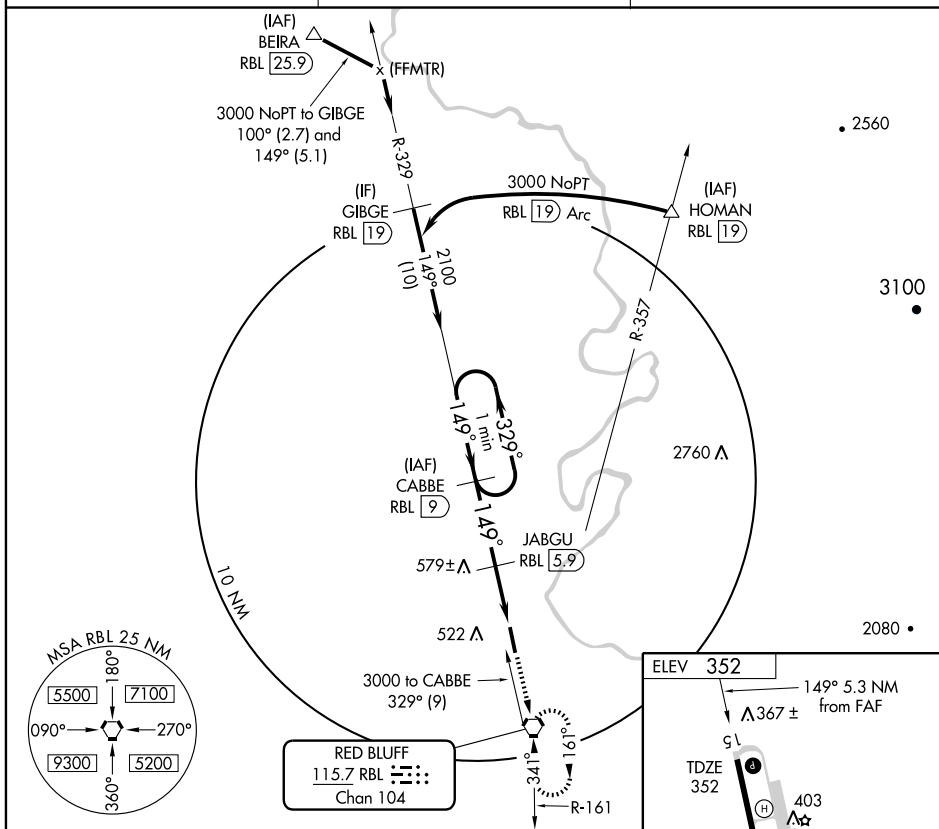
T Visibility reduction by helicopters NA.
A When local altimeter setting not received, use Redding altimeter setting and increase all MDA 80 feet, and increase visibilities S-15 Cat C and D $\frac{1}{4}$ mile.

MISSED APPROACH: Climb to 2000 direct RBL VORTAC and hold.

ASOS
120.775

OAKLAND CENTER
132.2 350.3

UNICOM
123.0 (CTAF) **L**

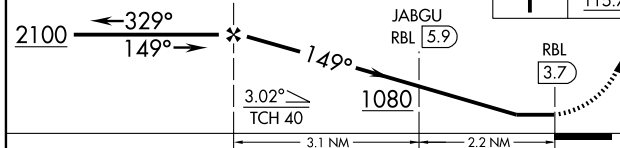


One Minute Holding Pattern

CABBE
RBL 9

VGSI and descent angles
not coincident

2000

RBL


CATEGORY	A	B	C	D
S-15	840-1 488 (500-1)		840-1½ 488 (500-1½)	840-1½ 488 (500-1½)
CIRCLING	840-1 488 (500-1)		840-1½ 488 (500-1½)	920-2 568 (600-2)

MIRL Rwy 15-33 **L**
REIL Rwy 15 and 33

Knots	60	90	120	150	180
Min:Sec					

VORTAC RBL 115.7 Chan 104	APP CRS 328°	Rwy Idg 5700 TDZE 352 Apt Elev 352
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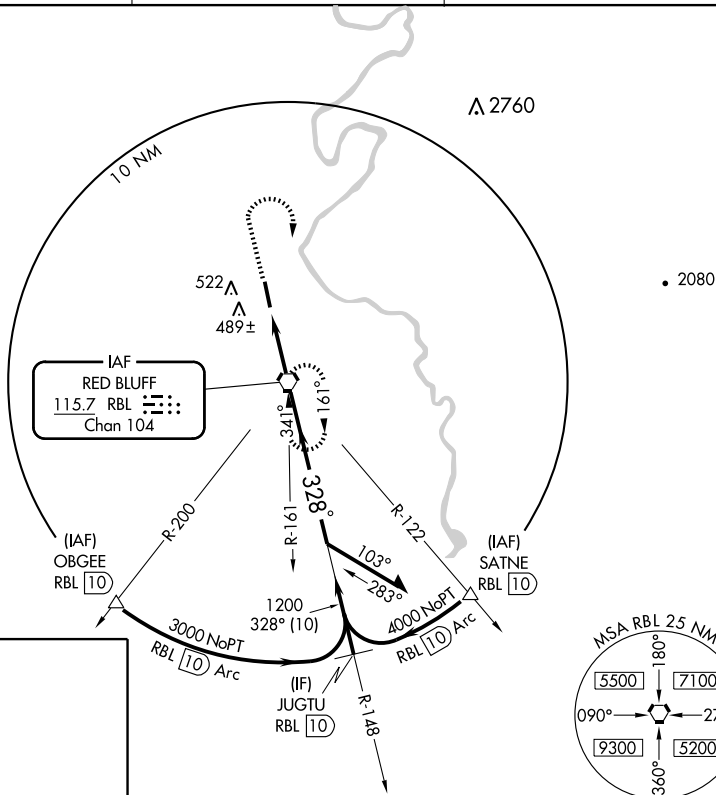
VOR RWY 33
RED BLUFF MUNI (RBL)

T Visibility reduction by helicopters NA.
A When local altimeter setting not received, use Redding altimeter setting and increase all MDA 80 feet, and increase visibilities S-33 Cat C and D $\frac{1}{4}$ mile.

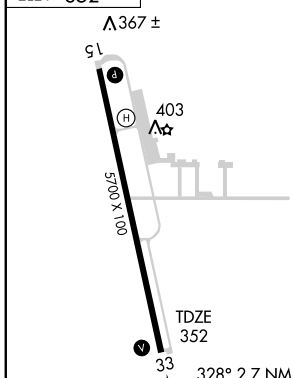
MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 direct RBL VORTAC and hold.

ASOS
120.775

OAKLAND CENTER
132.2 350.3

UNICOM
123.0 (CTAF) **L**

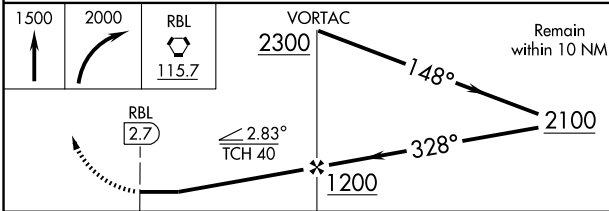
ELEV 352



MIRL Rwy 15-33 **L**
REIL Rwy 15 and 33

FAF to MAP 2.7 NM

Knots	60	90	120	150	180
Min:Sec	2:42	1:48	1:21	1:05	0:54



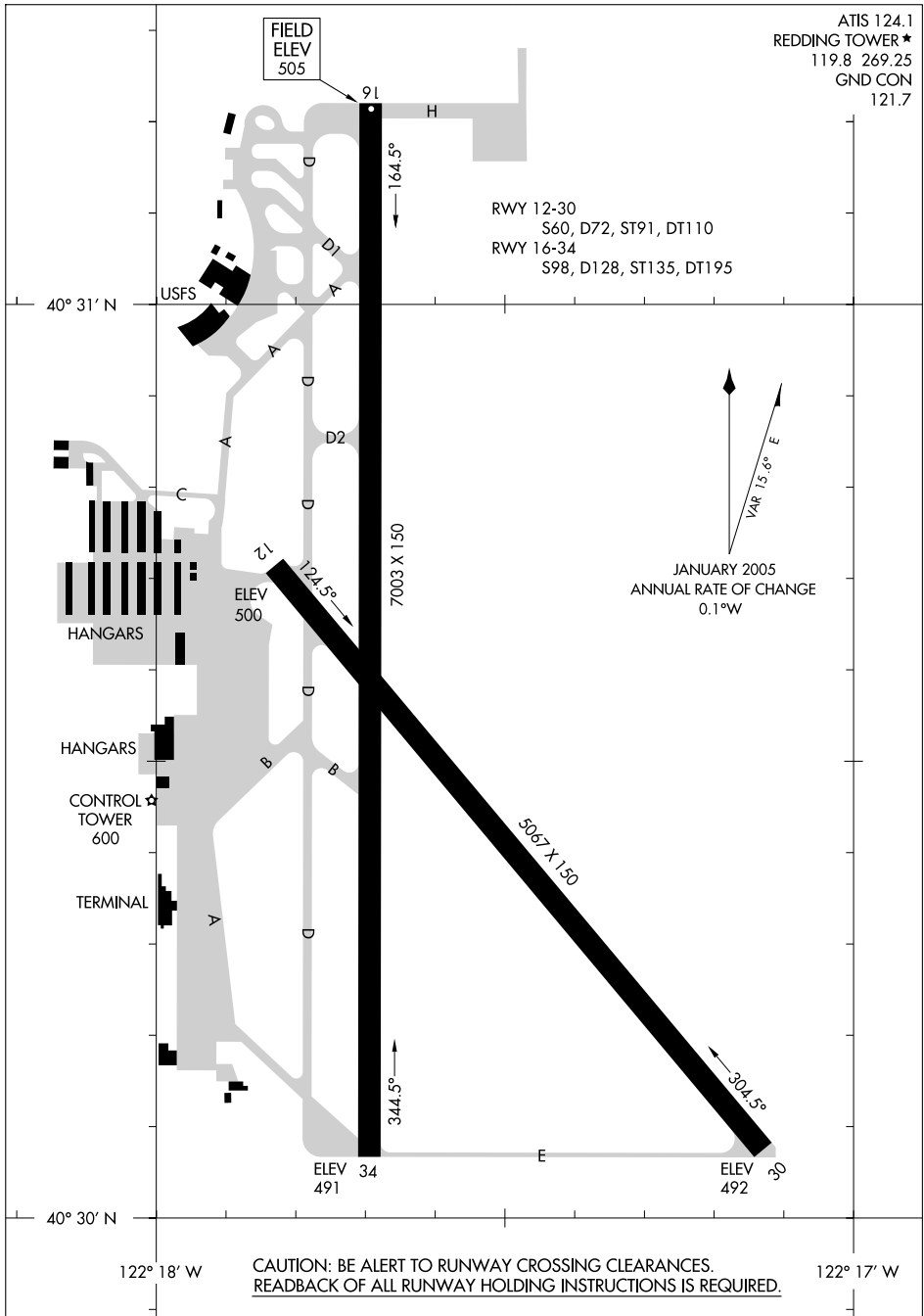
CATEGORY	A	B	C	D
S-33	740-1 388 (400-1)			740-1¼ 388 (400-1¼)
CIRCLING	840-1 488 (500-1)		840-1½ 488 (500-1½)	920-2 568 (600-2)

AIRPORT DIAGRAM

AL-688 (FAA)

REDDING MUNI (RDD)

REDDING, CALIFORNIA



ATIS 124.1
GND CON
121.7
REDDING TOWER ★
119.8 (CTAF) 269.25
OAKLAND CENTER
132.2 350.3

REDDING
108.4 RDD 
Chan 21

HOMAN
N40°24.30'
W122°07.74'
4000

RED BLUFF
115.7 RBL 
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

CHICO
109.8 CIC ::::
Chan 35
N39°47.39'-W121°50.83'
I-2

NOTE: This SID requires minimum climb of 350' per NM to 4000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12, 16: Turn left within 1 NM, thence....
TAKE-OFF RUNWAYS 30,34: Turn right within 1 NM, thence....

...Intercept the RDD R-111, direct HOMAN INT, cross HOMAN INT at or above 4000'; then via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

CHICO TRANSITION (HOMAN2.CIC): From over HOMAN INT via CIC R-325 to CIC VOR/DME.
RED BLUFF TRANSITION (HOMAN2.RBL): From over HOMAN INT via RBL R-357 to RBL VORTAC.

LOC/DME I-RDD 108.7 Chan 24	APP CRS 342°	Rwy Idg TDZE Apt Elev	7003 499 505
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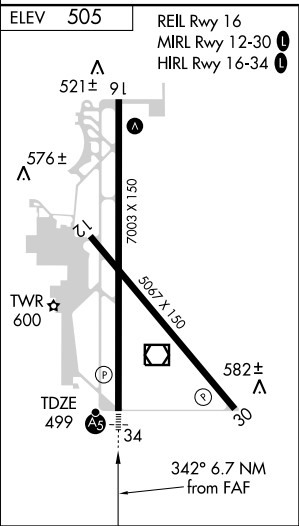
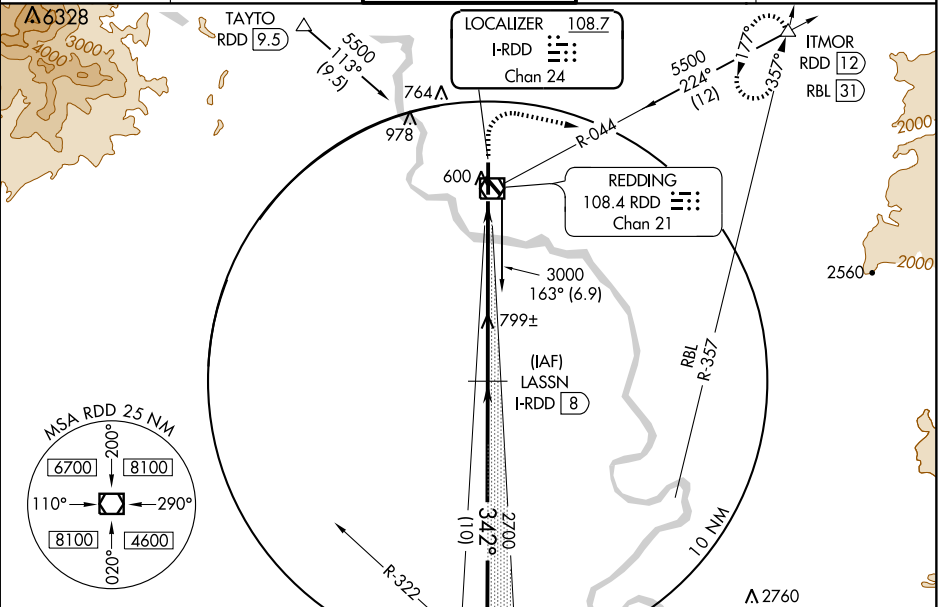
ILS or LOC/DME RWY 34
REDDING MUNI (RDD)

⚠ When local altimeter setting not received, use Red Bluff altimeter setting and increase all DAs/MDAs 80 feet, S-LOC 34 Cats. C, D, and E visibility ¼ mile, and Circling Cat. C and D visibility ¼ mile. VDP NA when using Red Bluff altimeter setting. For inoperative MALSR, increase S-ILS 34 Cat. E visibility to ¾ mile, S-LOC 34 Cat. E visibility to 2¼ mile. When using Red Bluff altimeter setting increase S-ILS 34 all Cats. visibility to 1 mile, and S-LOC 34 Cat. E visibility to 2½ mile.

MALSR
⚠

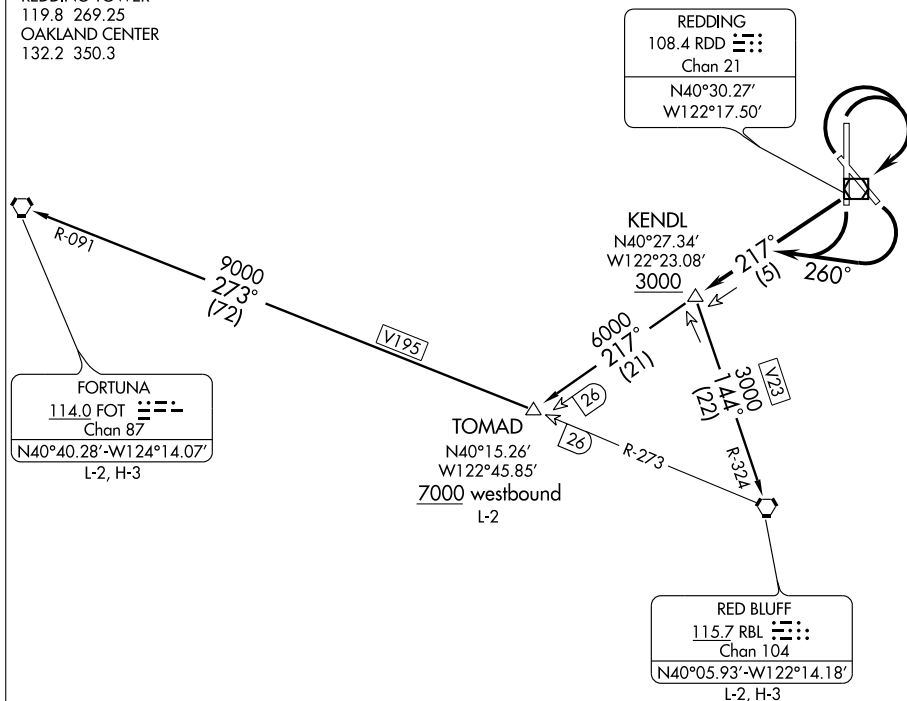
MISSED APPROACH: Climb to 1100 then climbing right turn to 5000 via heading 090° and RDD R-044 to ITMOR INT/RDD 12 DME and hold, continue climb-in-hold to 5000.

ATIS 124.1	OAKLAND CENTER 132.2 350.3	REDDING TOWER ★ 119.8(CTAF) 0 269.25	GND CON 121.7	UNICOM 122.95
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1100 ↑		5000 HDG 090°		RDD R-044 108.4		ITMOR △		Use I-RDD DME when on the localizer course. VGSI and ILS glidepath not coincident.			
I-RDD 1.3		I-RDD 3.2		LASSN I-RDD 8		DIBLE INT I-RDD 18		Remain within 15 NM			
1.9 NM		4.8 NM		10 NM							
CATEGORY		A		B		C		D		E	
S-ILS 34						699-½ 200 (200-½)					
S-LOC 34		1140-½ 641 (700-½)		1140-1¼ 641 (700-1¼)		1140-1½ 641 (700-1½)		1140-1¾ 641 (700-1¾)			
CIRCLING		1140-1 635 (700-1)		1140-1¾ 635 (700-1¾)		1140-2 635 (700-2)		1340-3 835 (900-3)			

ATIS 124.1
GND CON
121.7
REDDING TOWER★
119.8 269.25
OAKLAND CENTER
132.2 350.3



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12 and 16: Cats. A and B: turn right heading 260° to intercept and proceed via the RDD R-217 to KENDL INT. Cross KENDL INT at or above 3000, thence via (transition) or (assigned route). Cats. C and D: not authorized.

TAKE-OFF RUNWAYS 30 and 34: Turn right to cross RDD VOR/DME and proceed via the RDD R-217 to KENDL INT. Cross KENDL INT at or above 3000 thence via (transition) or (assigned route).

FORTUNA TRANSITION (KENDL1.FOT): From over KENDL INT via RDD R-217 to TOMAD INT, thence via RBL R-273 and FOT R-091 to FOT VORTAC.

RED BLUFF TRANSITION (KENDL1.RBL): From over KENDL INT via RBL R-324 to RBL VORTAC.

TOMAD TRANSITION (KENDL1.TOMAD): From over KENDL INT via RDD R-217 to TOMAD INT.

KREST THREE DEPARTURE

SL-688 (FAA)

REDDING MUNI (RDD)
REDDING, CALIFORNIA

ATIS 124.1
GND CON
121.7
REDDING TOWER ★
119.8 (CTAF) 269.25
OAKLAND CENTER
132.2 350.3

SHATA
N40°39.20'
W122°28.04'
L-2
8000
northwestbound
on V23

KREST
N40°41.97'
W122°13.95'
4000

ITMOR
N40°35.87'
W122°03.66'
L-2
7000
northbound
on V25

TOMAD
N40°15.26'
W122°45.85'
L-2

(SIPJY)
N40°23.45'
W122°30.44'

REDDING
108.4 RDD
Chan 21

RED BLUFF
115.7 RBL
Chan 104

NOTE: Rwsy 12, 16 and 30 departures require minimum climb of 300' per NM to 4000'.

NOTE: Rwy 34 departure requires minimum climb of 320' per NM to 4000'.

NOTE: DME required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12 and 16: Turn left immediately after departure to intercept and proceed via the RDD R-355 to KREST DME Fix. Cross KREST DME Fix at or above 4000, thence via (transition) or (assigned route).

TAKE-OFF RUNWAYS 30 and 34: Turn right immediately after departure to intercept and proceed via RDD R-355 to KREST DME Fix. Cross KREST DME Fix at or above 4000, thence via (transition) or (assigned route).

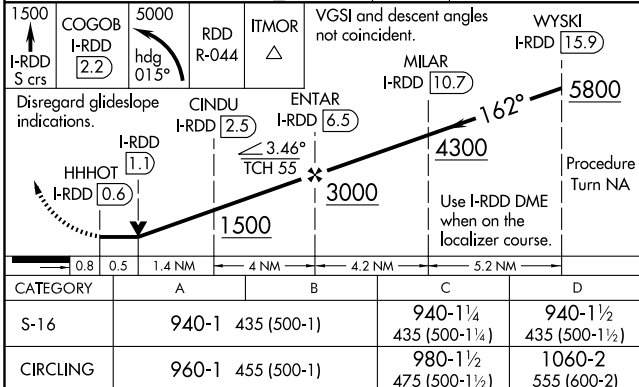
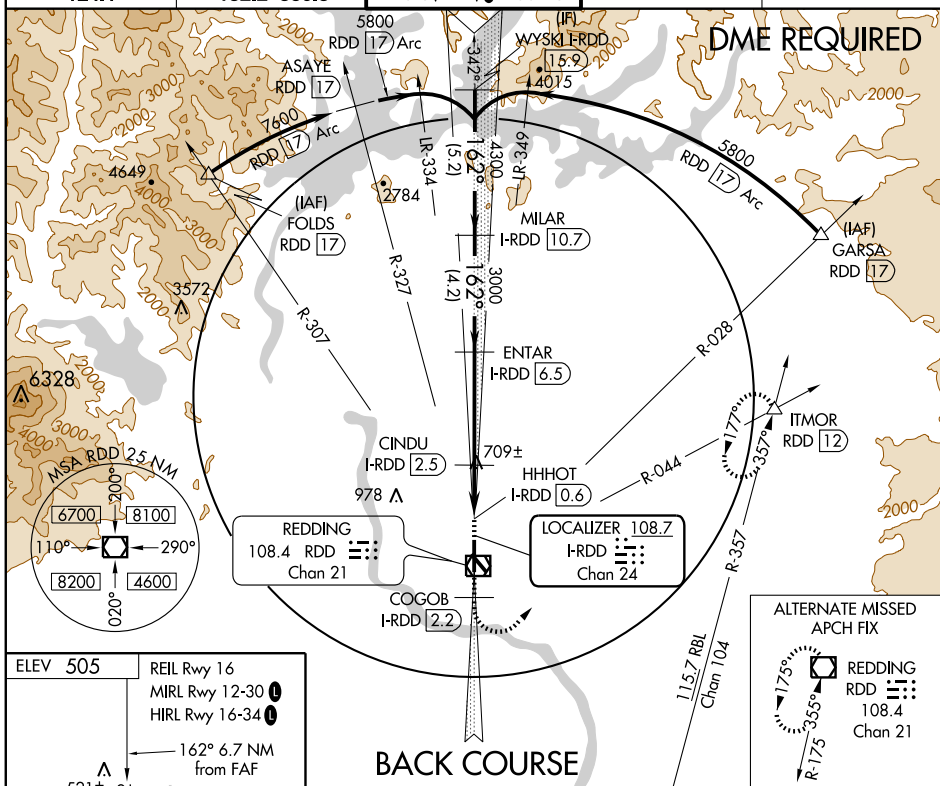
ITMOR TRANSITION (KREST3.ITMOR): From over KREST DME Fix via RDD 12 DME Arc clockwise to ITMOR INT.

SHATA TRANSITION (KREST3.SHATA): From over KREST DME Fix via RDD 12 DME Arc counterclockwise to SHATA INT.

TOMAD TRANSITION (KREST3.TOMAD): From over KREST DME Fix via RDD 12 DME Arc counterclockwise to RDD R-217, thence via RDD R-217 to TOMAD INT.

LOC/DME BC RWY 16
REDDING MUNI (RDD)

MISSED APPROACH: Climb to 1500 via I-RDD S course to COGOB/I-RDD 2.2 DME then climbing left turn to 5000 via heading 015° and RDD R-044 to ITMOR INT/RDD 12 DME and hold, continue climb-in-hold to 5000.

UNICOM
122.95

WAAS CH 56402 W34A	APP CRS 342°	Rwy Idg 7003 TDZE 499 Apt Elev 505
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RNAV (GPS) RWY 34

REDDING MUNI (RDD)

▼ **▲** DME/DME RNP-0.3 NA. Circling to Rwy 12 NA at night. For inoperative MALS, increase LPV all Cats. visibility to 1 mile. When using Red Bluff altimeter setting increase LPV all Cats. visibility to 1 1/4 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 48°C (118°F). VDP and Baro-VNAV NA when using Red Bluff altimeter setting. When local altimeter setting not received, use Red Bluff altimeter setting and increase all DAs/MDAs 80 feet, and increase LPV visibility 1/4 mile all Cats., LNAV/VNAV visibility 1/4 mile all Cats., and LNAV visibility Cat. C/D 1/4 mile.

MALSR
A5

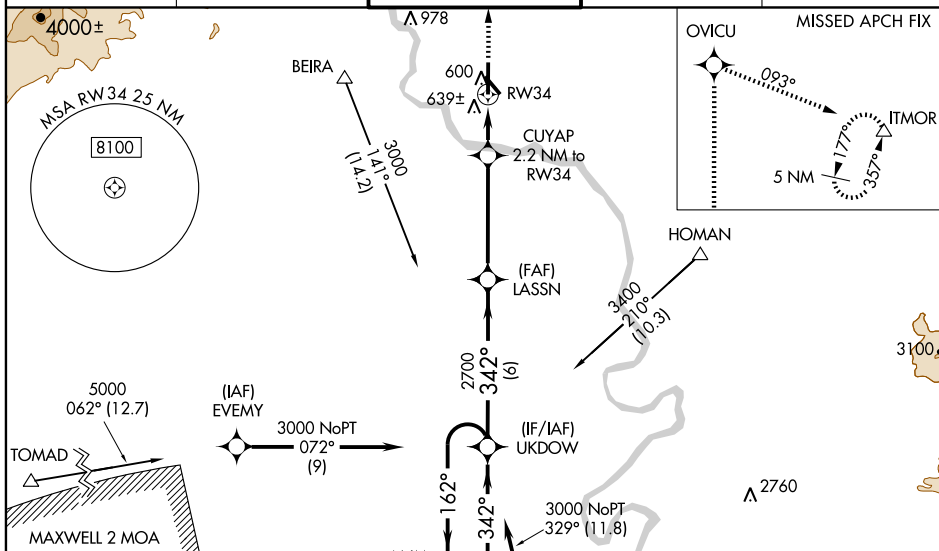
MISSED APPROACH:
Climb to 5000 direct
OVICU and right
turn via 093° track
to ITMOR and
hold, continue
climb-in-hold to 5000.

ATIS
124.1

OAKLAND CENTER
132.2 350.3

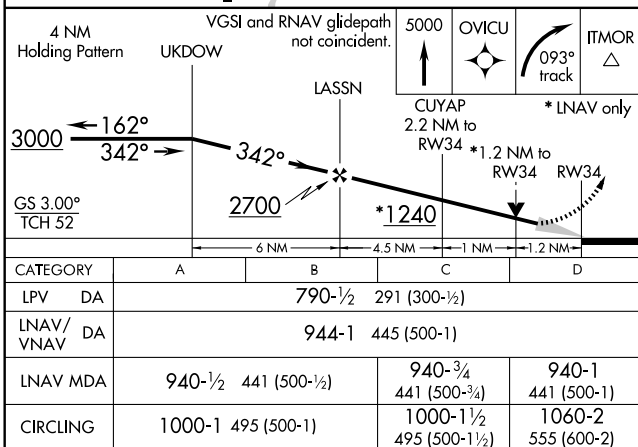
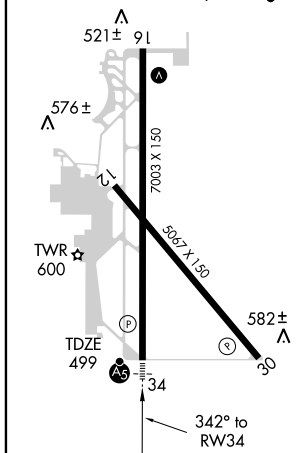
REDDING TOWER ★
119.8(CTAF) **L** 269.25

GND CON
121.7

UNICOM
122.95

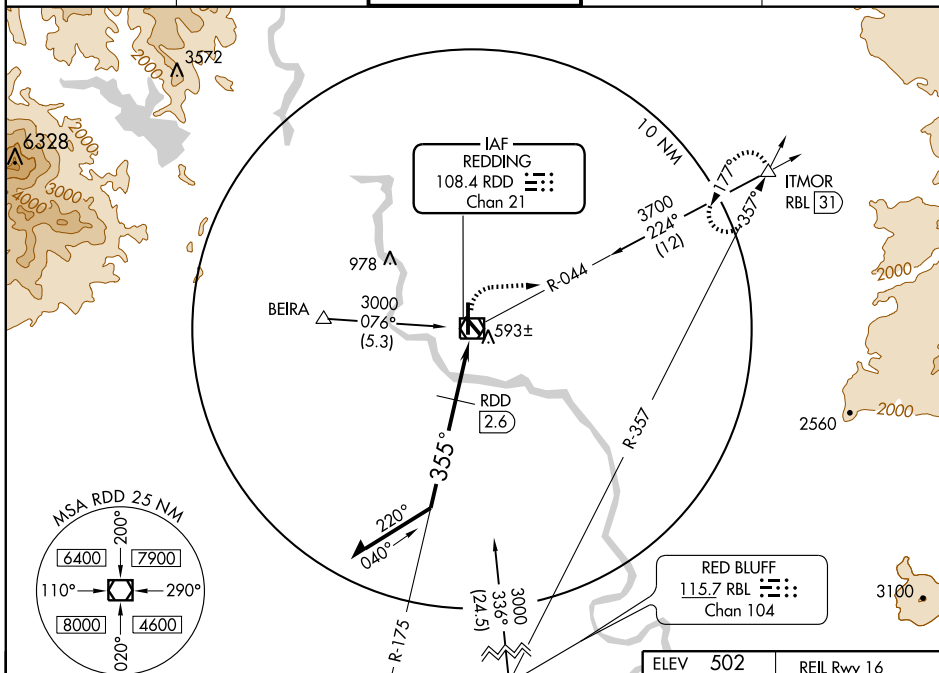
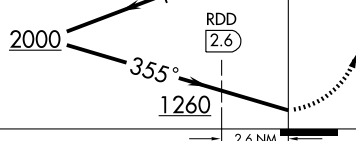
SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 505	REIL Rwy 16
	MIRL Rwy 12-30 L
	HIRL Rwy 16-34 L



VOR RWY 34
REDDING MUNI (RDD)

MISSED APPROACH: Climbing right turn to 5300 via heading 090° and RDD R-044 to ITMOR INT and hold.

UNICOM
122.95ITMOR
△

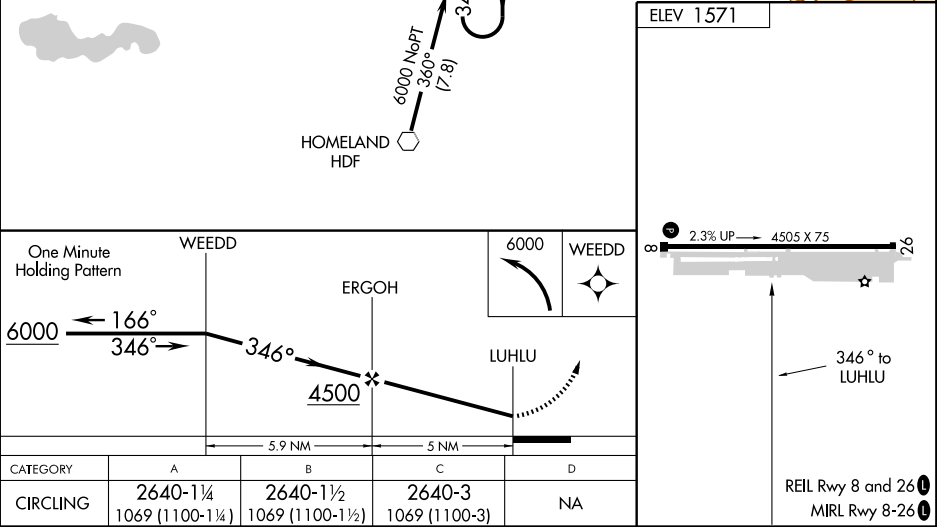
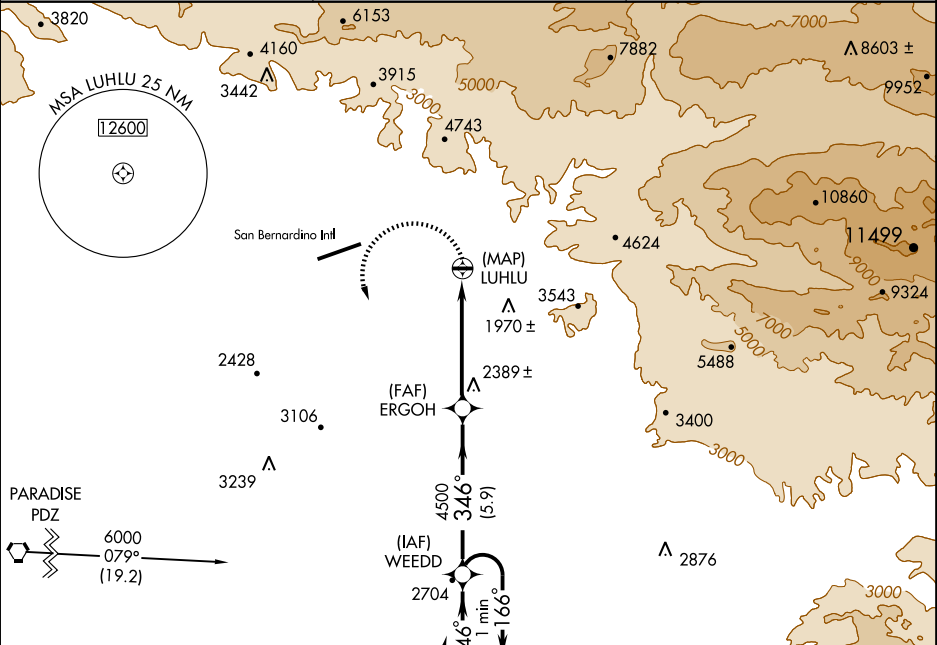
DME MINIMUMS				
S-34	860-½ 364 (400-½)			860-1 364 (400-1)
CIRCLING	920-1 418 (500-1)	960-1 458 (500-1)	960-1½ 458 (500-1½)	1060-2 558 (600-2)

APP CRS	Rwy Idg	N/A
346°	TDZE	N/A
	Apt Elev	1571

GPS-A
REDLANDS MUNI(REI)

▼ ▲ NA	Use San Bernardino Intl altimeter setting; when not received, use Ontario Intl altimeter setting and increase all MDAs 160 feet. Procedure not authorized at night.	MISSED APPROACH: Climbing left turn to 6000 direct WEEDD WP and hold.
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AWOS-3 123.050	SOCAL APP CON 127.25 318.2	UNICOM 123.05 (CTAF) 0
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NDB SB	APP CRS	Rwy Idg	N/A
<u>397</u>	323°	TDZE	N/A
		Apt Elev	1455

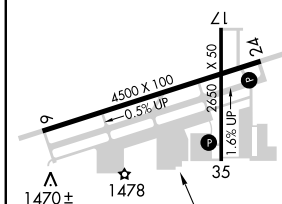
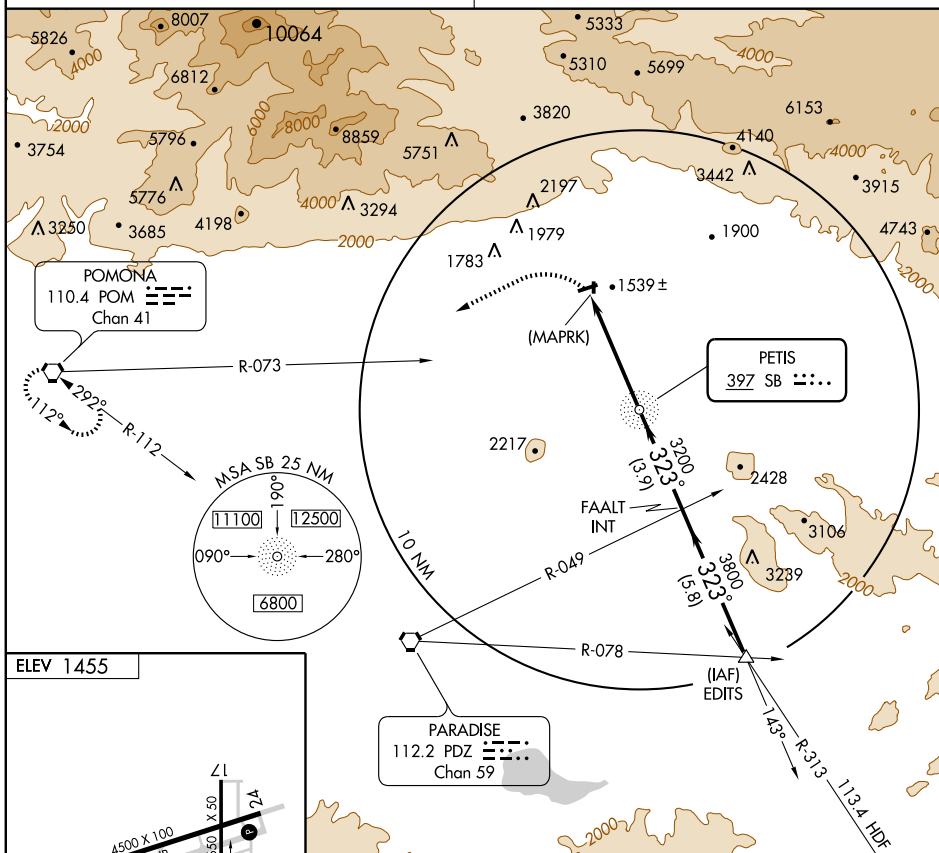
NDB or GPS-A

RIALTO MUNI (MIRO FIELD) (L67)



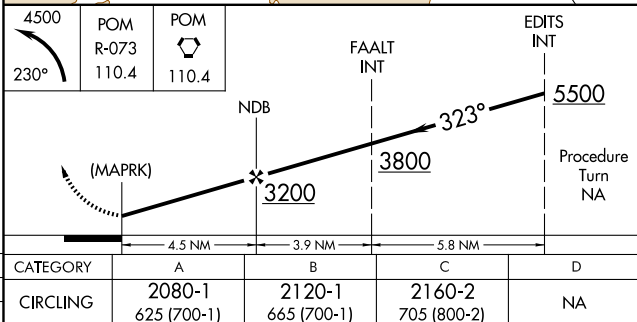
MISSED APPROACH: Climbing left turn to 4500 via heading 230° and POM R-073 to POM VORTAC and hold.

SOCAL APP CON
127.25 318.2

UNICOM
122.8 (CTAF) **L**

323° 4.5 NM
from FAF

REIL Rwy 6 and 24
MIRL Rwy 6-24 and 17-35

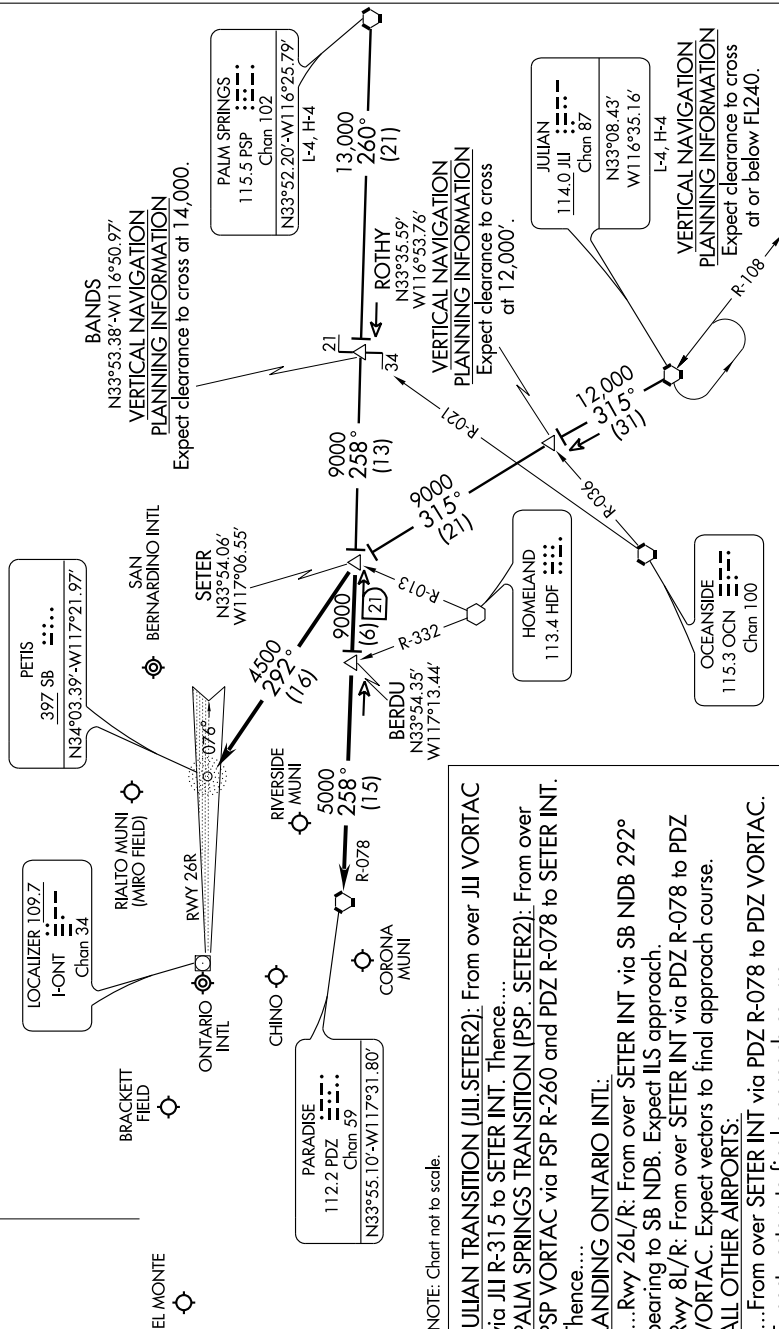


SETER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
119.65 379.25
BRACKETT ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO ATIS 124.25
RIVERSIDE ATIS 128.8



SW-3. 14.JAN 2010 to 11 FEB 2010

ZIGGY FOUR ARRIVAL

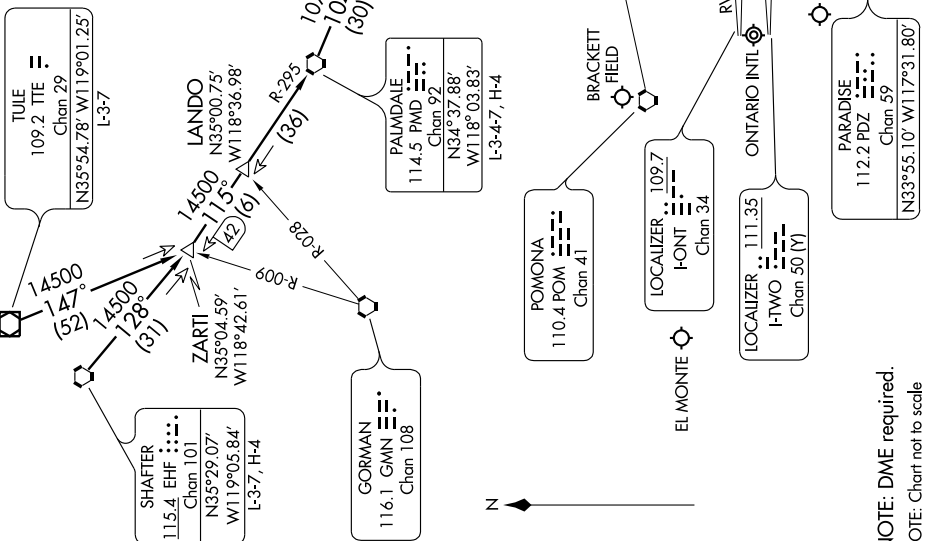
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

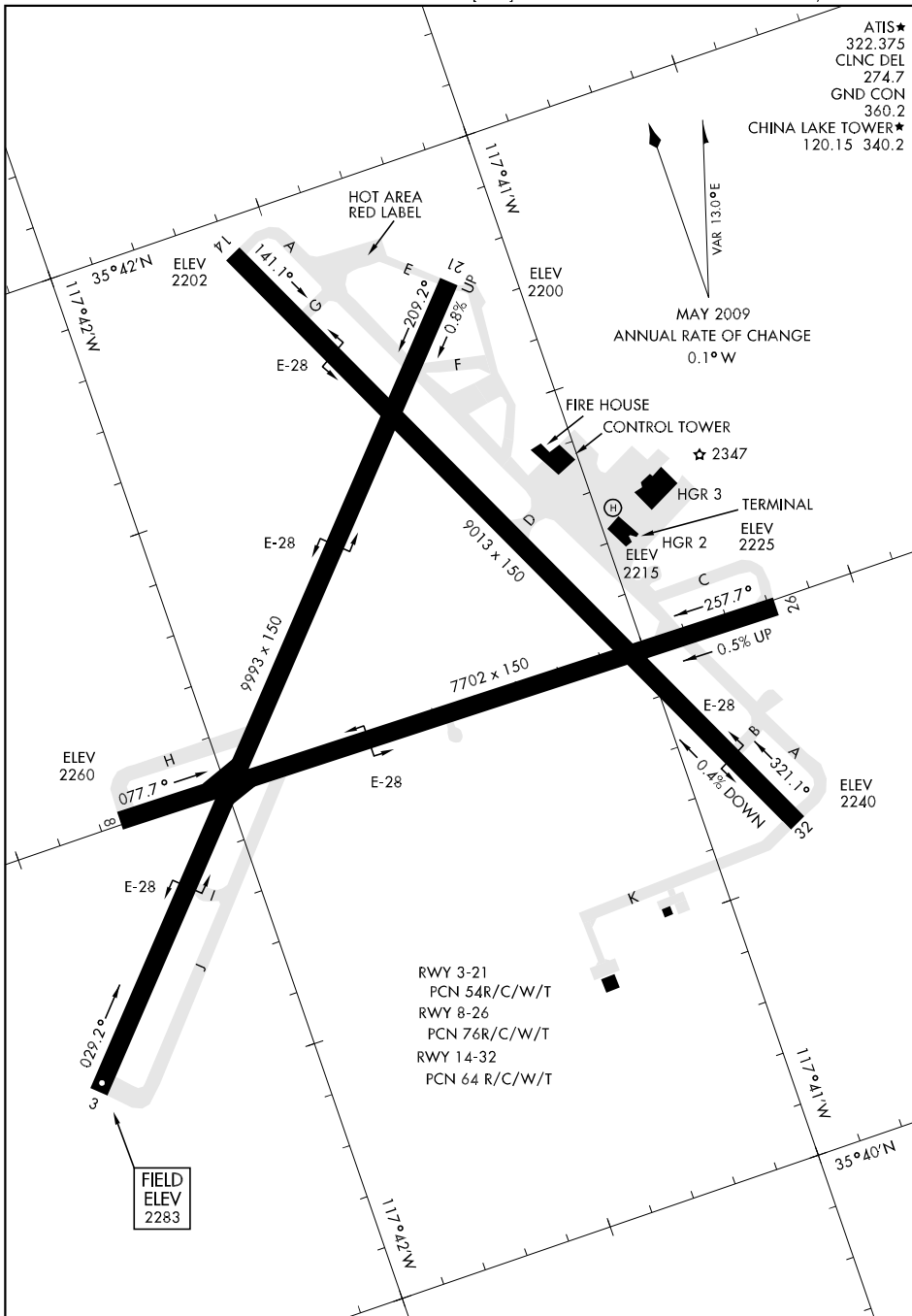
. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

SW-3, 14 JAN 2010 to 11 FEB 2010



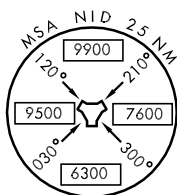
CHINA 4 • CHINA)

SL-914 [USN]

CHINA FOUR DEPARTURE ROUTE (RIDGECREST, CALIFORNIA)

ATIS ★ 322.375
CLNC DEL
274.7
GND CON
360.2
CHINA LAKE TOWER ★
120.15 340.2
JOSHUA DEP CON
133.65 348.7

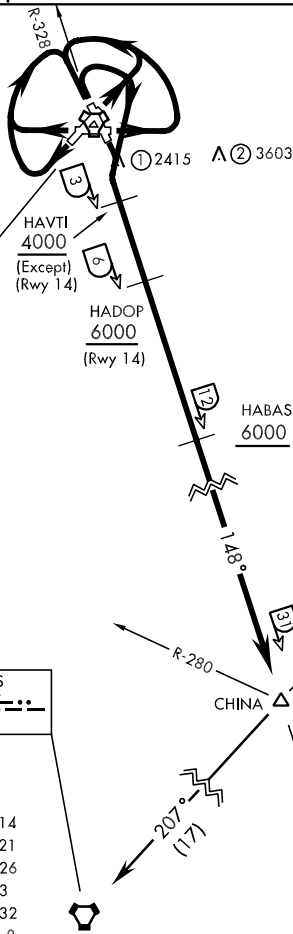
CHINA LAKE
Chan 53 NID



EDWARDS
116.4 EDW
Chan 111
L-7

HECTOR
112.7 HEC
Chan 74
L-7

- ① 145° 0.9 NM from DER 14
- ② 082° 5.4 NM from DER 21
- 087° 5.3 NM from DER 26
- 099° 4.6 NM from DER 3
- 099° 5.0 NM from DER 32
- 091° T 4.0 NM from DER 8



	Rwy	Knots	60	120	180	240
* 3	ⓐ ⓑ	V/V(fpm)	360	720	1080	1440
* 3	ⓑ ⓓ	V/V(fpm)	400	800	1200	1600
* 8	ⓐ ⓔ	V/V(fpm)	390	780	1170	1560
* 8	ⓑ ⓓ	V/V(fpm)	450	900	1350	1800
* 14	ⓐ ⓖ	V/V(fpm)	250	500	750	1000
* 14	ⓑ ⓓ	V/V(fpm)	260	520	780	1040
* 21	ⓐ ⓓ	V/V(fpm)	300	600	900	1200
* 21	ⓑ ⓓ	V/V(fpm)	330	660	990	1320
* 26	ⓐ ⓓ	V/V(fpm)	310	620	930	1240
* 26	ⓑ ⓓ	V/V(fpm)	340	680	1020	1360
* 32	ⓐ ⓓ	V/V(fpm)	330	660	990	1320
* 32	ⓑ ⓓ	V/V(fpm)	370	740	1110	1480
† 14	ⓓ	V/V(fpm)	730	1460	2190	2920

* Minimum † ATC Climb Rate

- ⓐ Military ⓑ Civil ⓒ to 4700 ⓓ to 4900
- ⓔ to 3800 ⓕ to 4100 ⓖ to 3300 ⓓ to 3400
- ⓓ to 3900 ⓓ to 6000 Not for Civil use.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb to 2700 via heading 029°, then climbing left turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence.....

TAKE-OFF RWY 8: Climb to 2700 via heading 077°, then climbing left turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence

TAKE-OFF RWY 21: Climb to 2700 via heading 209°, then climbing right turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence

TAKE-OFF RWY 26: Climb to 2700 via heading 257°, then climbing right turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence.....

TAKE-OFF RWY 32: Climb to 2700 via heading 321°, then climbing right turn within 3 DME to intercept R-148 to CHINA. Thence.....

(CONTINUED ON NEXT PAGE)



(CONTINUED FROM PRECEDING PAGE)

DEPARTURE ROUTE DESCRIPTION

Cross HAVTI at or above 4000. Cross HABAS at or above 6000. Cross CHINA at assigned altitude.

TAKE OFF RWY 14: Climbing right turn to intercept NID R-148 to CHINA. Cross HADOP at or above 6000. Cross CHINA at assigned altitude.

ALL RWYS: Max departure speed 250 KIAS until established on R-148. From CHINA, proceed via assigned transition or expect radar vectors to join assigned route.

EDWARDS TRANSITION (CHINA4•EDW): Via EDW R-027 to EDW. Expect radar vectors to join assigned route.

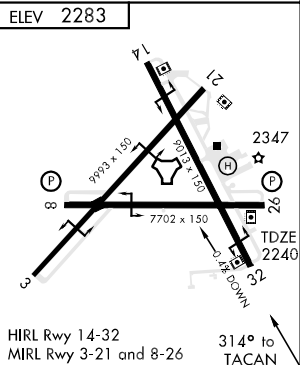
HECTOR TRANSITION (CHINA4•HEC): Via HEC R-280 to HEC.

SW-3, 14 JAN 2010 to 11 FEB 2010

JAL-914 [USN] CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

* MISSED APPROACH: Climbing left turn to 6500, intercept NID R-192 to RANDS and hold.

* CAUTION: Missed Approach
Minimum Climb Rate to 6500

Controlling Obstacle 4999'

APCH CRS	Rwy Idg	9013
320°	TDZE	2240
	Arpt Elev	2283

AL-914 [USN]

CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

T RNP-0.3 or GPS required
DME/DME RNP-0.3 NA.
Baro VNAV NA below -19.57°C (-3.22°F).

* MISSED APPROACH: Climb to 6500 direct WERUS, then climbing left turn direct RANDS and hold.

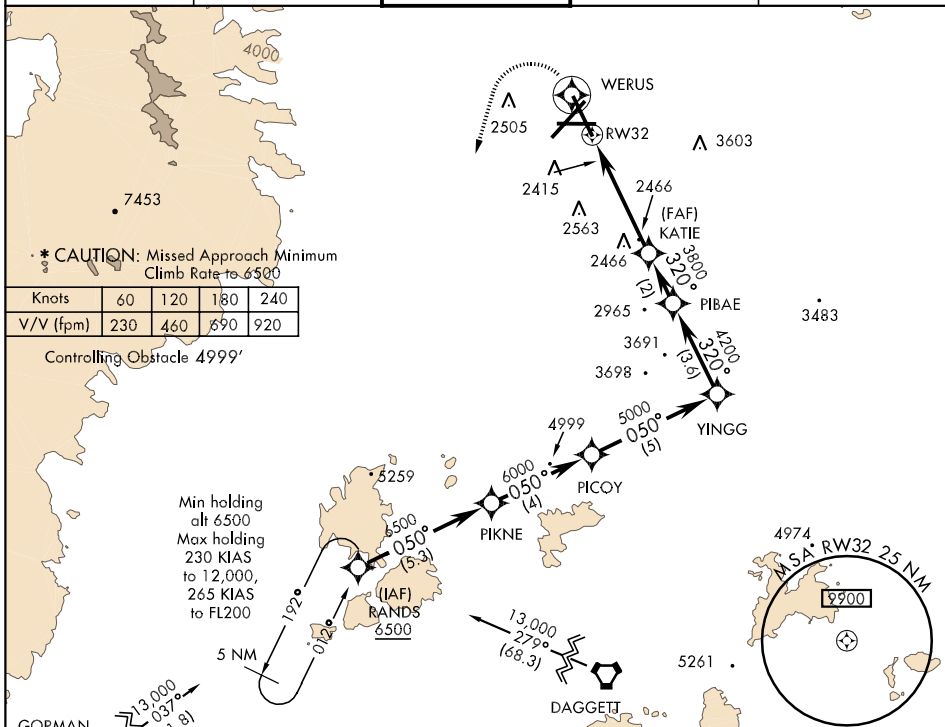
ATIS ★
322.375

JOSHUA APP CQN
133.65 348.7

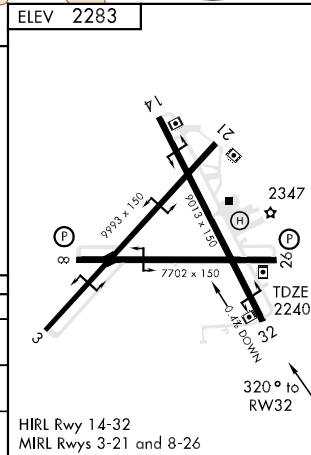
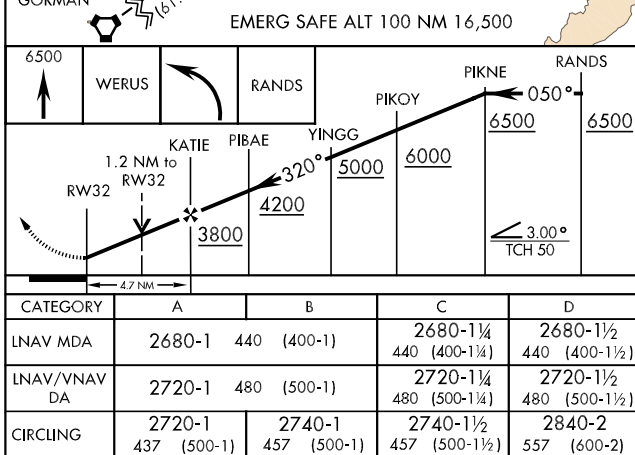
CHINA LAKE TOWER ★
120.15 340.2

GND CON
360.2

CLNC DEL
274.7



SW-3, 14 JAN 2010 to 11 FEB 2010



RIDGECREST, CALIFORNIA

35°41'N-117°41'W CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

09127

SALTD-THREE HI DEPARTURE (SALTD 3 • SALTD)

RIDGECREST, CALIFORNIA

ATIS ★322.375

CLNC DEL

274.7

GND CON

360.2

CHINA LAKE TOWER ★

120.15 340.2

JOSHUA DEP CON

133.65 348.7

SH-914 [USN]

Rwy	Knots	120	180	240	300	360
†21 Ⓞ	V/V(fpm)	1360	2040	2720	3400	4080

† ATC Climb Rate

Ⓞ to 15,000

NOT FOR CIVIL USE

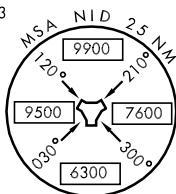
CHINA LAKE
Chan 53 NID

H-3

FAMAK
5000

3603

2563



R-283

SALTD

15,000
5428

103°
(85)

212°
(58)

R-032

GORMAN
116.1 GMN

Chan 108

H-3

HECTOR
112.7 HEC

Chan 74

H-3

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 21: Climb via NID R-212 to SALTD. From SALTD, proceed via assigned transition or expect radar vectors to join assigned route. Cross FAMAK at or above 5000. Cross SALTD at or above 15,000.

GORMAN TRANSITION (SALTD 3 • GMN): Via GMN R-032 to GMN.

HECTOR TRANSITION (SALTD 3 • HEC): Via HEC R-283 to HEC.

SALTD-THREE HI DEPARTURE (SALTD 3 • SALTD)

RIDGECREST, CALIFORNIA

SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN NID Chan 53	APCH CRS 314°	Rwy Idg 9013 TDZE 2240 Arpt Elev 2283
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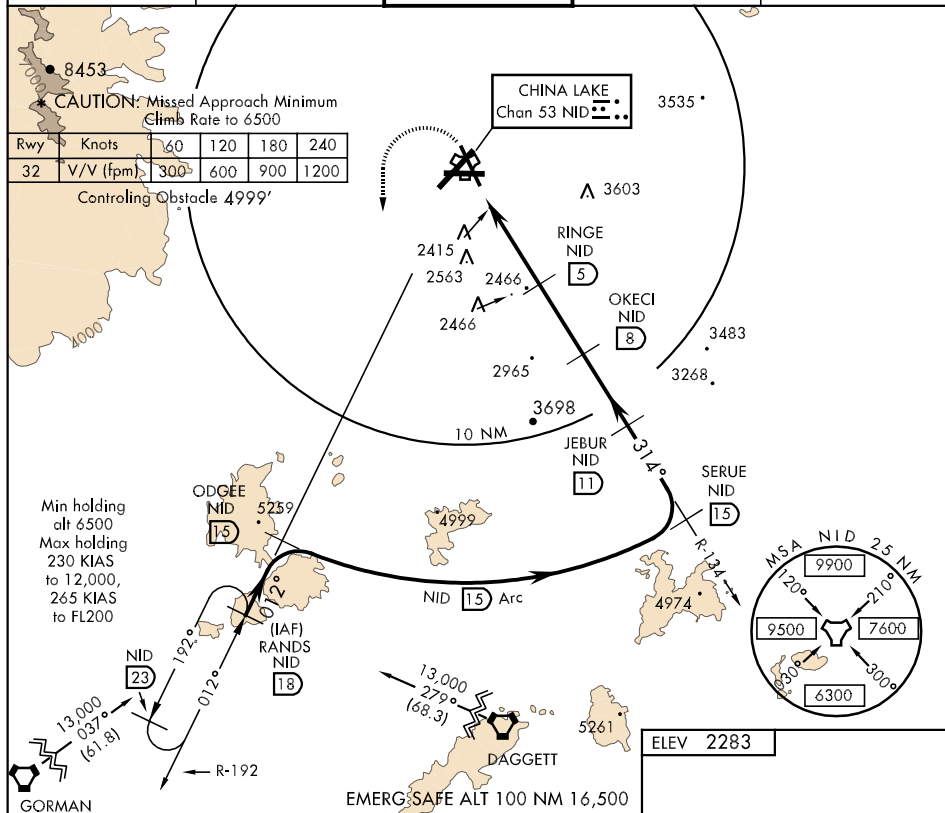
AL-914 [USN]

CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

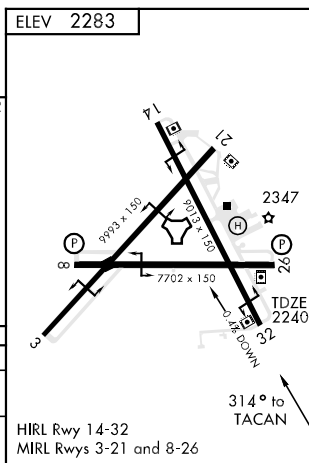


* MISSED APPROACH: Climbing left turn to 6500, intercept NID R-192 to RANDS and hold.

ATIS ★ 322.375	JOSHUA APP CON 133.65 348.7	CHINA LAKE TOWER ★ 120.15 340.2	GND CON 360.2	CLNC DEL 274.7
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CATEGORY	A	B	C	D
S-32	2680-1 440	(400-1)	2680-1¼ 440 (400-1¼)	2680-1½ 440 (400-1½)
CIRCLING	2720-1 437 (500-1)	2740-1 457 (500-1)	2740-1½ 457 (500-1½)	2840-2 557 (600-2)



APP CRS 265°	Rwy Idg TDZE Apt Elev	4200 23 23
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RNAV (GPS) RWY 25

RIO VISTA MUNI (088)

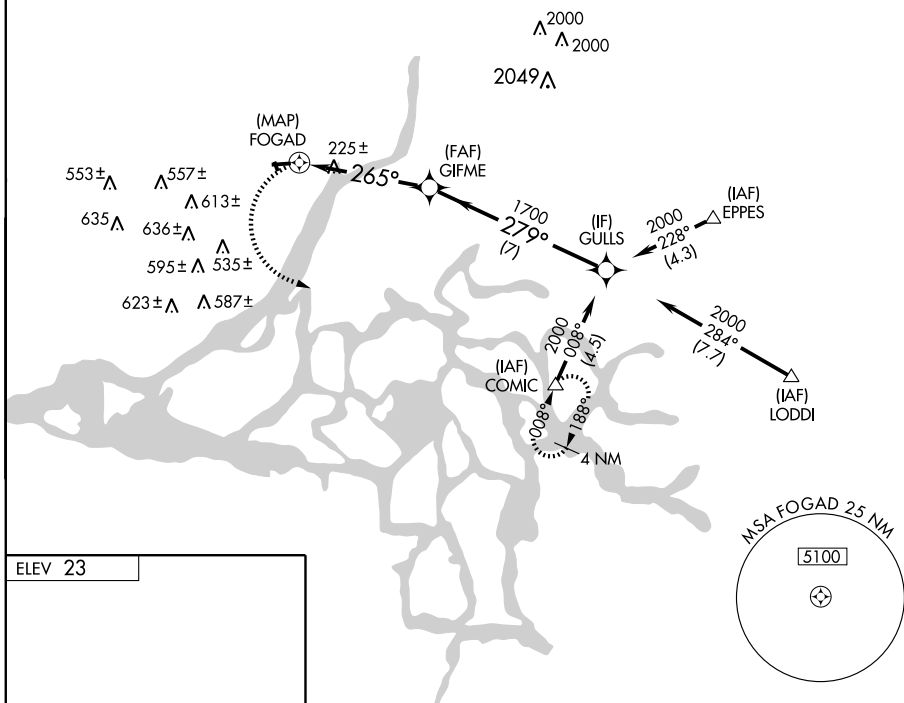
RIO VISTA MUNI (088)

T	DME/DME RNP-0.3 NA.
A NA	Visibility reduction by helicopters NA. Use Travis AFB altimeter setting.

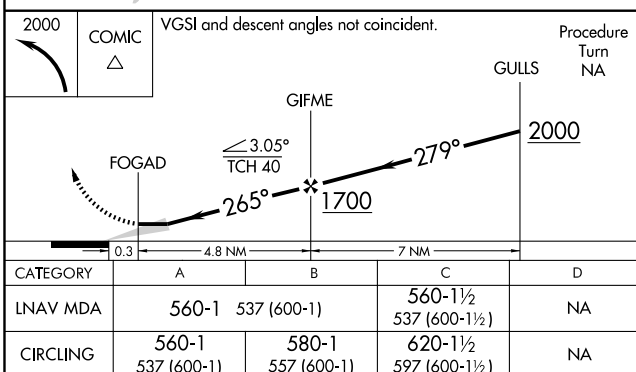
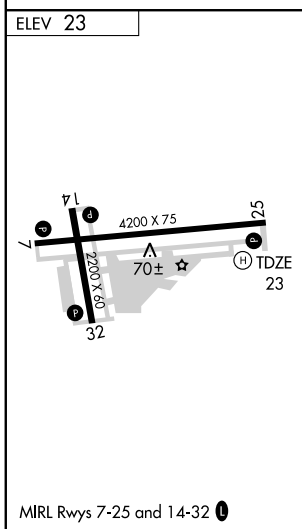
MISSED APPROACH: Climbing left turn to 2000 direct COMIC and hold.

NORCAL APP CON
125.25 257.9

UNICOM
122.725 (CTAF) **L**



SW-2: 14 JAN 2010 to 11 FEB 2010

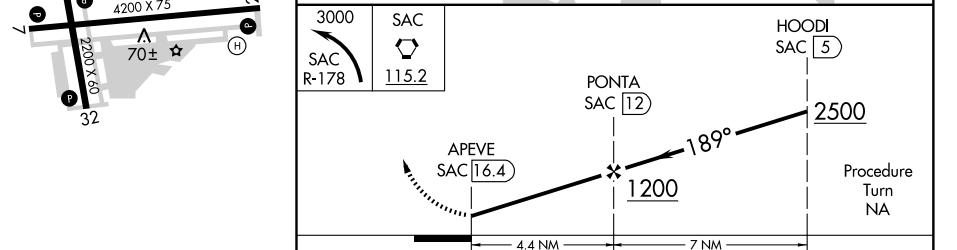
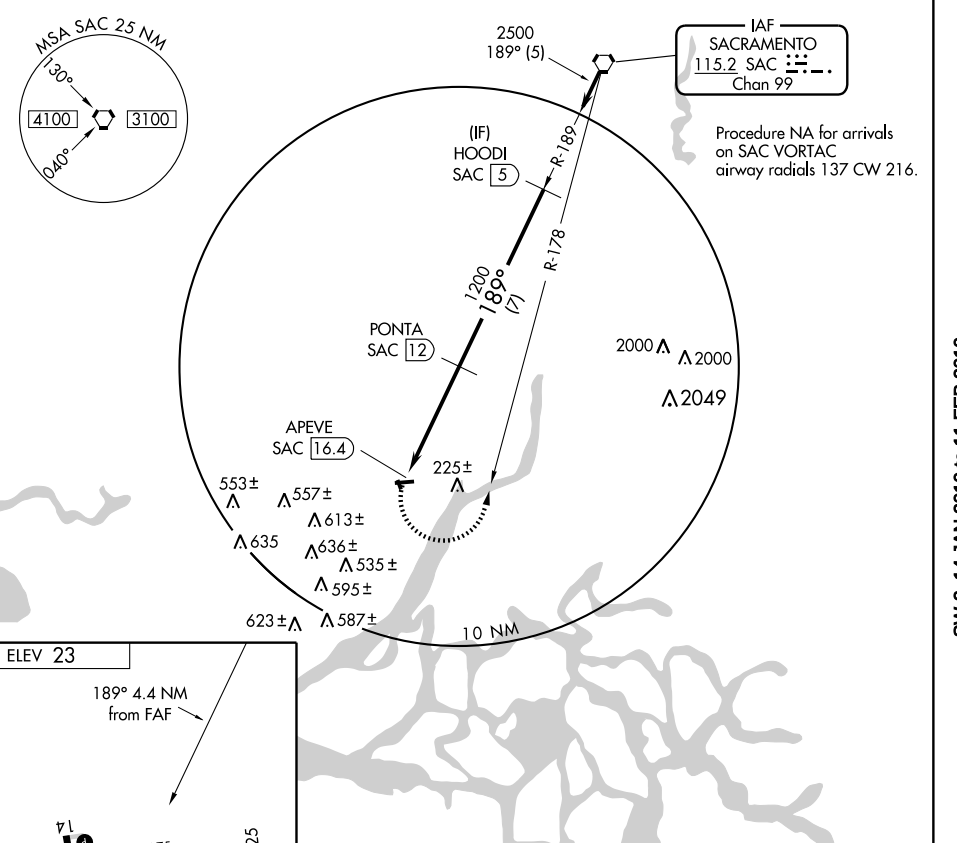


NA
Use Travis AFB altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 via SAC VORTAC R-178 to SAC VORTAC.

NORCAL APP CON
125.25 257.9

UNICOM
122.725 (CTAF) 0



CATEGORY	A	B	C	D
CIRCLING	560-1 537 (600-1)	580-1 557 (600-1)	620-1½ 597 (600-1½)	NA

AIRPORT DIAGRAM

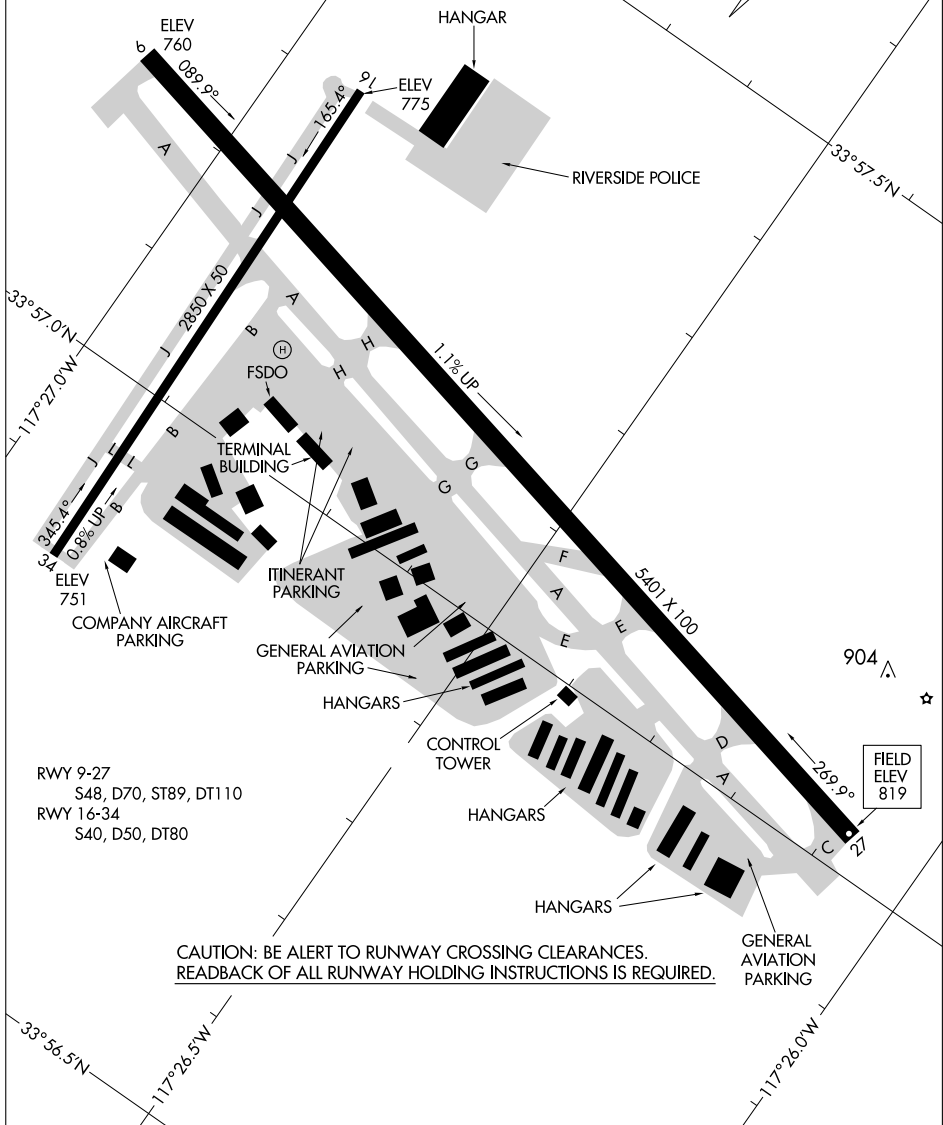
AL-769 (FAA)

RIVERSIDE MUNI (RAL)
RIVERSIDE, CALIFORNIA

ATIS 128.8
RIVERSIDE TOWER ★
121.0 257.8
GND CON
121.7

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

VAR 13.1° E



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REDBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

LOC I-RAL <u>110.9</u>	APP CRS 089°	Rwy Idg TDZE Apt Elev	5401 794 818
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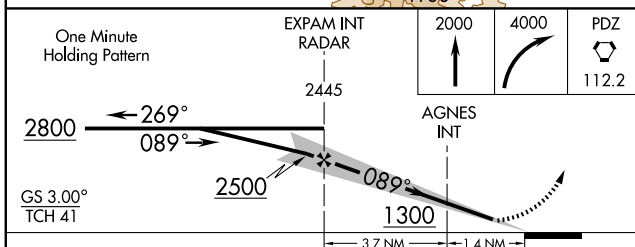
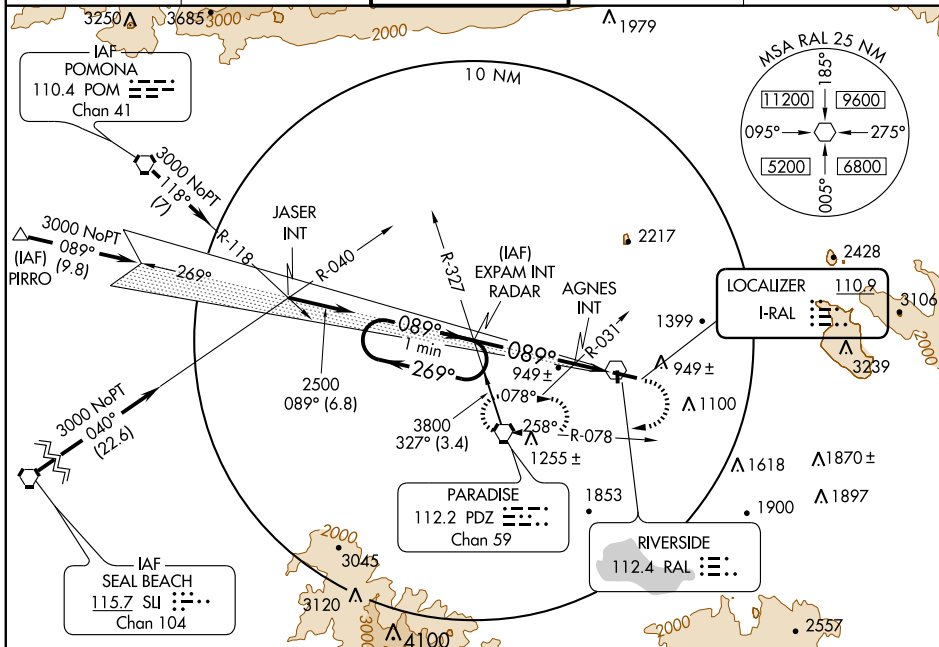
ILS or LOC RWY 9
RIVERSIDE MUNI (RAL)

- T** For inoperative MALSR increase AGNES FIX MINIMUMS S-LOC Cat D visibility to 1¼. Autopilot coupled approach NA below 1440. Circling NA north of Rwy 9-27 for Cat D.

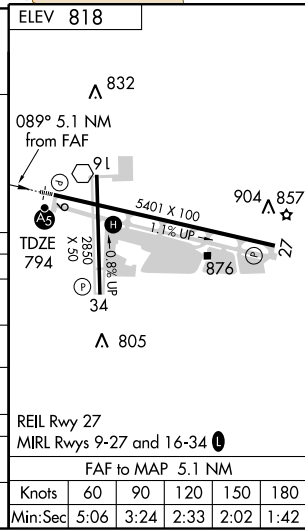


MISSED APPROACH: Climb to 2000 then climbing right turn to 4000 direct PDZ VORTAC and hold.

ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 9	994- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)			994- $\frac{3}{4}$ 200 (200- $\frac{3}{4}$)
S-LOC 9	1300- $\frac{1}{2}$ 506 (500- $\frac{1}{2}$)		1300-1 506 (500-1)	
CIRCLING	1300-1 482 (500-1)	1360-1 542 (600-1)	1620-2 $\frac{1}{4}$ 802 (900-2 $\frac{1}{4}$)	1620-2 $\frac{1}{2}$ 802 (900-2 $\frac{1}{2}$)
AGNES FIX MINIMUMS				
S-LOC 9	1200- $\frac{1}{2}$ 406 (400- $\frac{1}{2}$)		1200- $\frac{3}{4}$ 406 (400- $\frac{3}{4}$)	1200-1 406 (400-1)
CIRCLING	1260-1 442 (500-1)	1360-1 542 (600-1)	1620-2 $\frac{1}{4}$ 802 (900-2 $\frac{1}{4}$)	1620-2 $\frac{1}{2}$ 802 (900-2 $\frac{1}{2}$)



WAAS CH 50203 W09A	APP CRS 089°	Rwy Idg TDZE Apt Elev	5401 795 819
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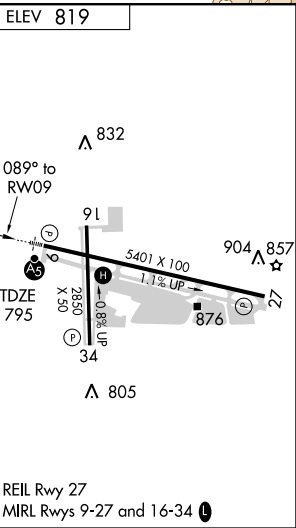
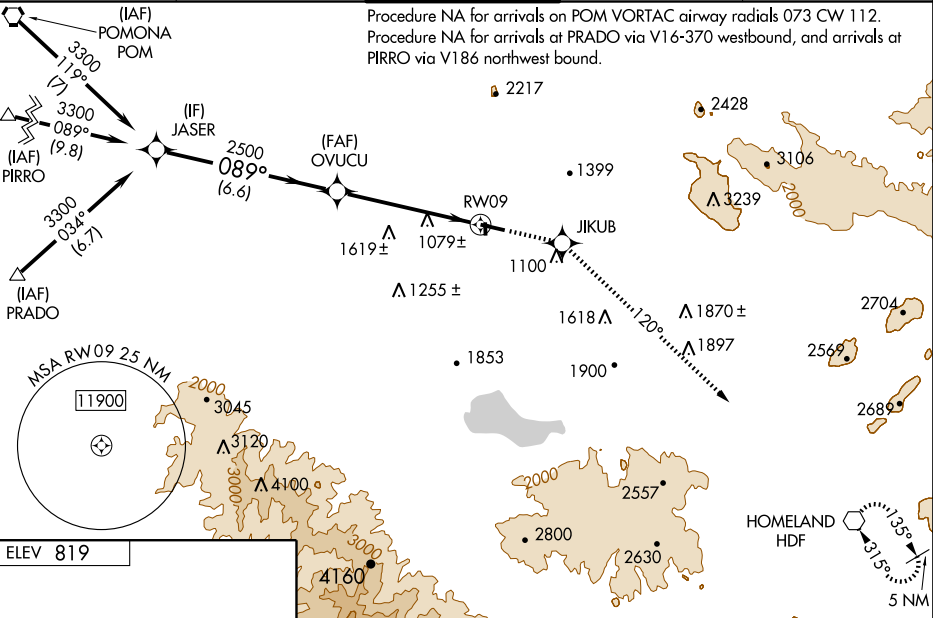
RNAV (GPS) RWY 9
RIVERSIDE MUNI (RAL)

⚠ Circling NA for Cat D north of Rwy 9-27.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (117°F).
When local altimeter setting not received, use Chino altimeter setting and increase all DAs/MDAs 60 feet, and LPV and LNAV/VNAV all visibilities ¼ mile.
VDP and Baro-VNAV NA when using Chino altimeter setting.
When VGSI inoperative, circling to Rwy 34 NA at night.
For inoperative MALSR, increase LPV all Cats visibility to 1¼. When using Chino altimeter setting increase LPV all Cats visibility to 1½.

MALSR

MISSED APPROACH: Climb to 6000 direct JIKUB and via 120° track to HDF VOR and hold, continue climb-in-hold 6000.

ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Procedure Turn NA	JASER	OVUCU	JIKUB	HDF
3300	089°	2500	120° track	
GS 3.00° TCH 41	6.6 NM	2.3 NM	3 NM	
CATEGORY	A	B	C	D
LPV DA	1120-¾ 325 (400-¾)			
LNAV/VNAV DA	1473-2 678 (700-2)			
LNAV MDA	1760-¾ 965 (1000-¾)	1760-1 965 (1000-1)	1760-2½ 965 (1000-2½)	
CIRCLING	1760-1¼ 941 (1000-1¼)	1760-1½ 941 (1000-1½)	1760-3 941 (1000-3)	

REIL Rwy 27
MIRL Rwy 9-27 and 16-34

RNAV (GPS) RWY 27

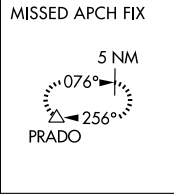
RIVERSIDE MUNI (RAL)

WAAS CH 82201 W27A	APP CRS 269°	Rwy Idg TDZE Apt Elev	5401 818 818
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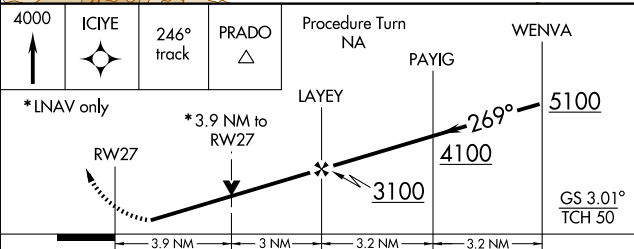
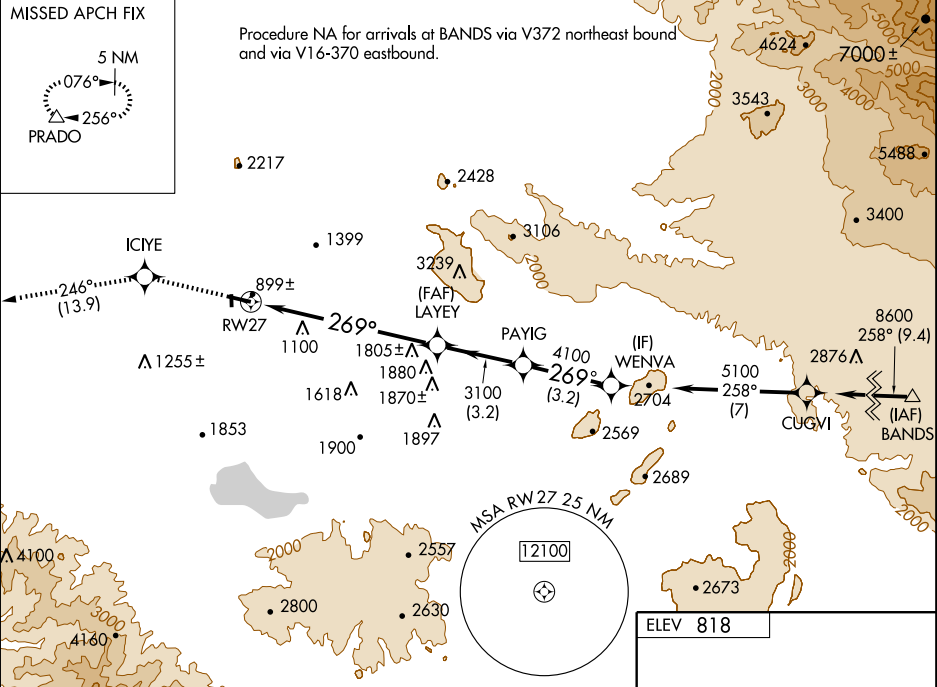
⚠ DME/DME RNP -0.3 NA.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 46°C (116°F).
Circling NA for Cat D north of Rwy 9-27.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4000 direct ICIYE and via 246° track to PRADO and hold.

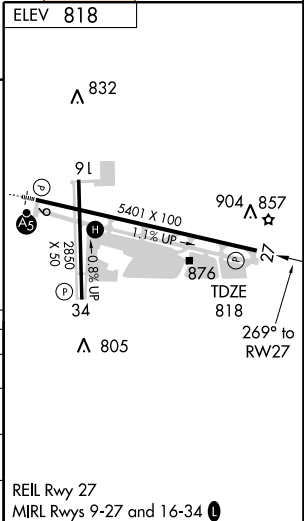
ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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Procedure NA for arrivals at BANDS via V372 northeast bound and via V16-370 eastbound.



CATEGORY	A	B	C	D
LPV DA	1236-1½ 418 (500-1½)			
LNAV/VNAV DA	1368-2 550 (600-2)			
LNAV MDA	2100-1¼ 1282 (1300-1¼)	2100-1½ 1282 (1300-1½)	2100-3	1282 (1300-3)
CIRCLING	2100-2	1282 (1300-2)	2100-3	1282 (1300-3)

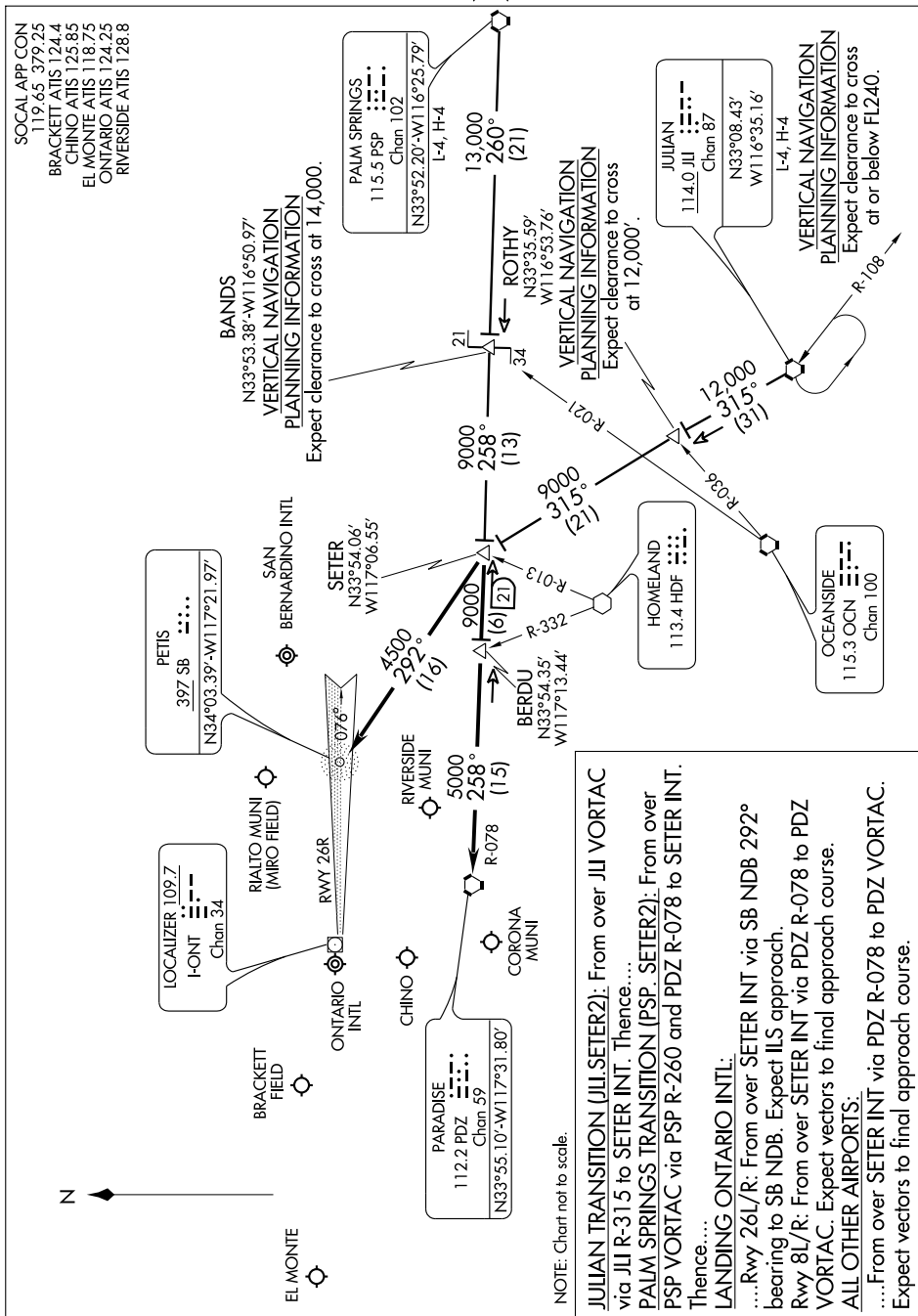


REIL Rwy 27
MRL Rlys 9-27 and 16-34

SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

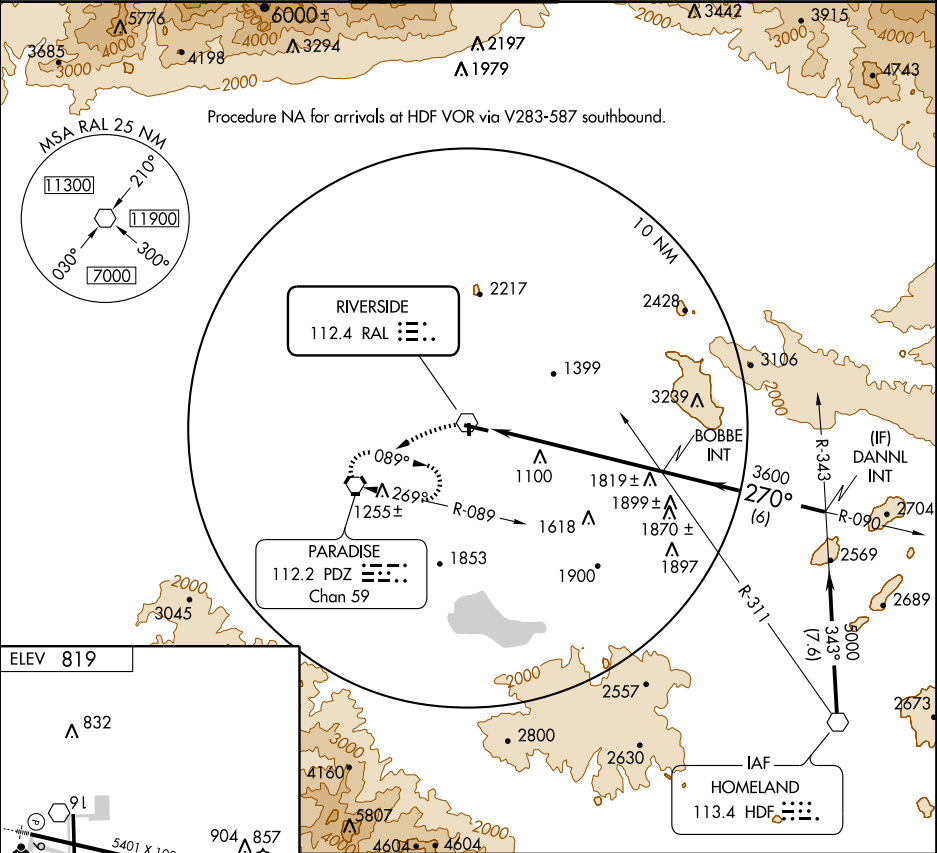


VOR RAL 112.4	APP CRS 270°	Rwy Idg TDZE Apt Elev	N/A N/A 819
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VOR-A
RIVERSIDE MUNI (RAL)

When VGSI inoperative, circling Rwy 34 NA at night. When local altimeter setting not received, use China altimeter setting and increase all MDAs 60 feet.	MISSED APPROACH: Climbing left turn to 4500 direct PDZ VORTAC and hold, continue climb-in-hold to 4500.
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ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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ELEV 819	832	91	904	857	27	876	805
5401 X 100	1.1% UP	0.8% UP	270° 6.4 NM from FAF	4500	PDZ 112.2	3600	5000
6.4 NM	6 NM	6 NM	6 NM	6 NM	6 NM	6 NM	6 NM
REIL Rwy 27	MRL Rlys 9-27 and 16-34	FAF to MAP 6.4 NM	CATEGORY	A	B	C	D
Knots	60 90 120 150 180	2300-1¼	2300-1½	2300-3	NA		
Min:Sec	6:24 4:16 3:12 2:34 2:08	1481 (1500-1¼)	1481 (1500-1½)	1481 (1500-3)			

VOR RAL	APP CRS	Rwy Idg	N/A
112.4	335°	TDZE	N/A
		Apt Elev	819

VOR-B
RIVERSIDE MUNI (RAL)

T	When VGSI inoperative, circling Rwy 34 NA at night.
A	Circling NA for Cat D north of Rwy 9-27.
	When local altimeter setting not received, use Chino altimeter setting and increase all MDA 60 feet.

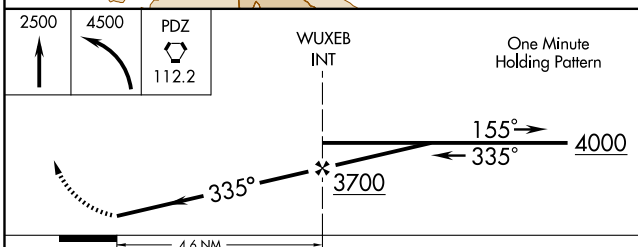
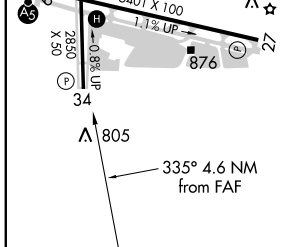
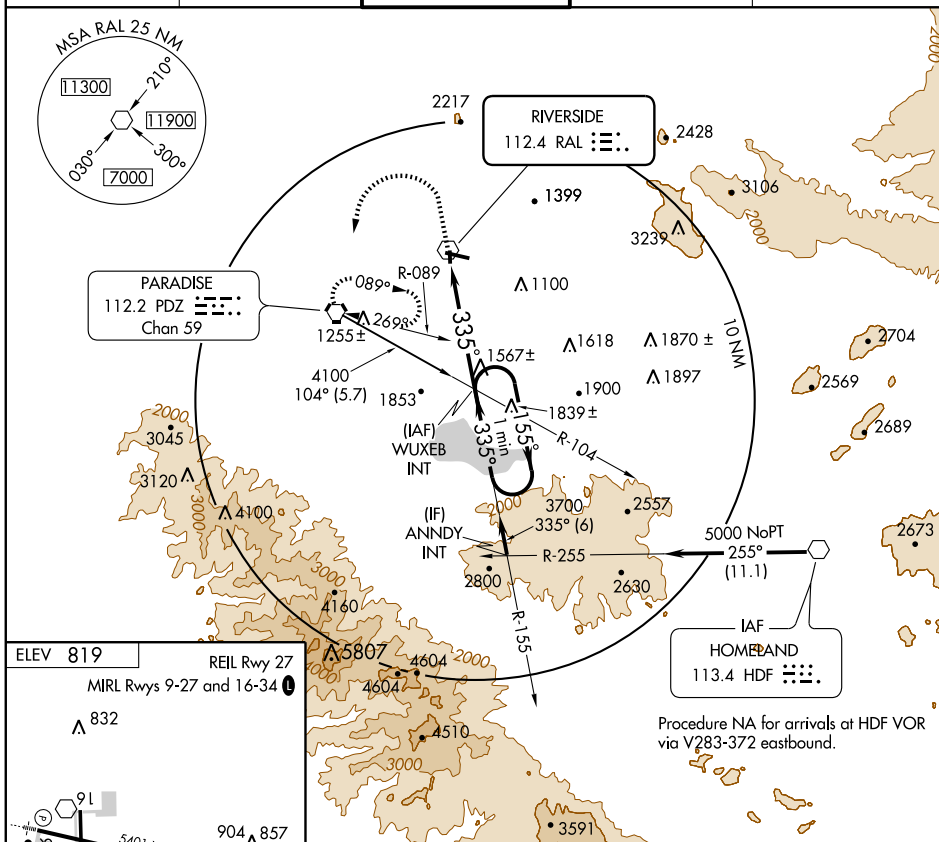
MISSED APPROACH: Climb to 2500 then climbing left turn to 4500 direct PDZ VORTAC and hold, continue climb-in-hold to 4500.

ATIS
128.8

SOCAL APP CON
135.4 377-125

RIVERSIDE TOWER ★
121.0 (CTAF) **L 257.8**

GND CON
121.7

UNICOM
122.95

SW-3, 14 JAN 2010 to 11 FEB 2010

VOR RWY 9
RIVERSIDE MUNI (RAL)

VOR RAL	APP CRS	Rwy Idg	5401
112.4	079°	TDZE	795
		Apt Elev	819

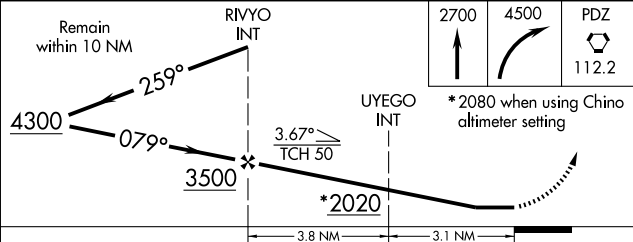
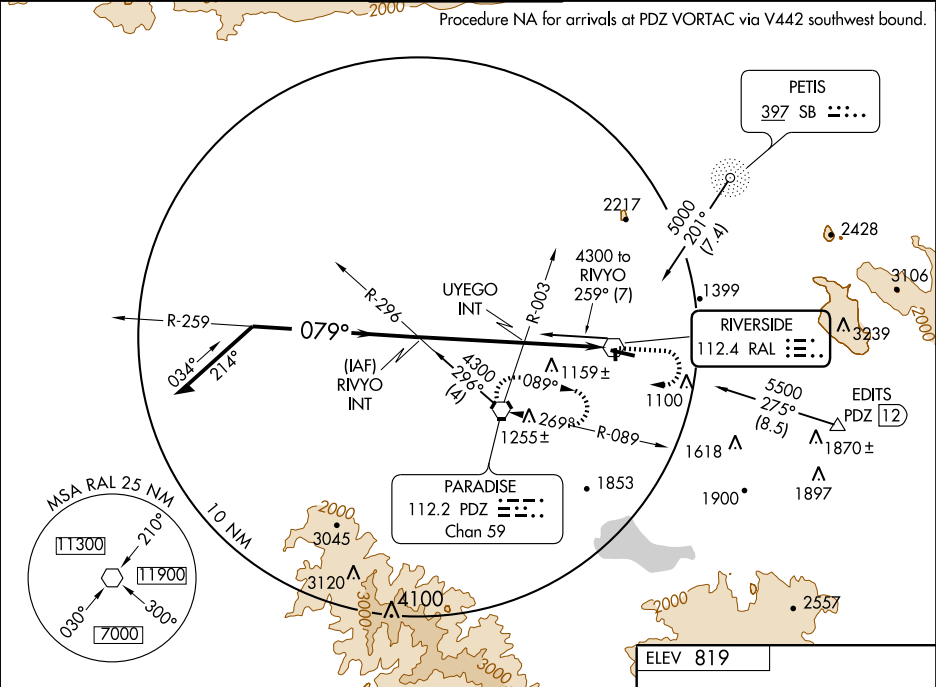
⚠ When VGSi inoperative, circling Rwy 34 NA at night.

⚠ When local altimeter setting not received, use Chino altimeter setting and increase all MDAs 60 feet.

MALSR

MISSED APPROACH: Climb to 2700 then climbing right turn to 4500 direct PDZ VORTAC and hold, continue climb-in-hold to 4500.

ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-9	2020-3/4 1225 (1300-3/4)	2020-1 1225 (1300-1)	2020-2 1/2 1225 (1300-2 1/2)	NA
CIRCLING	2020-1 1/4 1201 (1300-1 1/4)	2020-1 1/2 1201 (1300-1 1/2)	2020-3 1201 (1300-3)	NA
UYEGO FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-9	1740-3/4 945 (1000-3/4)	1740-2 1/4 945 (1000-2 1/4)	NA	
CIRCLING	1740-1 1/4 921 (1000-1 1/4)	1740-2 3/4 921 (1000-2 3/4)	NA	

ELEV 819

REIL Rwy 27
MIRL Rws 9-27 and 16-34 0

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

ATIS
134.75 239.05
MARCH TOWER
127.65 253.5
GND CON
121.75 335.8
CLNC DEL
121.75 335.8

ELEV
1542
1703

ANG RAMP

AFRC RAMP

33°54'N

CAUTION
ALERT
APRONS/HANGARS

FIELD
ELEV
1536

BAK-12

ELEV
1540

FUEL
TANKS

PAX
TERMINAL

TRANSIENT
AIRCRAFT RAMP

BASE OPS
AND
CONTROL TOWER

TRIM PAD

BLAST FENCE

AFRC RAMP

BLAST FENCE

ELEV
1512

ELEV
1502

FIRE
STATION

CAUTION:
RWY 12-30 AVBL
FOR MARCH ARB
ASSIGNED AERO
CLUB AND U.S.
CUSTOMS ACFT
ONLY.

MARCH
JOINT POWERS
AUTHORITY
(CIVILIAN RAMP)

ELEV
1486

BAK-12

ELEV
1488

117°15'W

33°52'N

RWY 14-32
PCN 45 R/B/W/T
RWY 12-30
PCN 23 F/A/W/T

117°16'W



DECEMBER 2009
ANNUAL RATE OF CHANGE
0.1° W

SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-RIV 110.1	APCH CRS 315°	Rwy Idg 13,300 TDZE 1497 Arpt Elev 1536	JAL-348 [USAF]	MARCH ARB (KRIV)
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▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile. ** When ALS inop, increase CAT CD RVR to 60 and vis to 1¼ mile, CAT E vis to 1½.	ALSF-1	MISSED APPROACH: Climb direct RIV TACAN. Then turn left to intercept RIV R-138 direct BOGLE, continue climb in hold to 5000.
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ATIS 134.75 239.05	SOCAL APP CON 134.0 278.3	MARCH TOWER 127.65 253.5	GND CON 121.75 335.8	CLNC DEL 121.75 335.8
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*** Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.

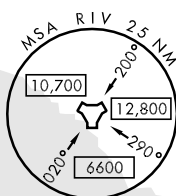
CAUTION:

Ultralights, balloons,
parachutists in vicinity
of Perris Valley Arpt.

CAUTION:

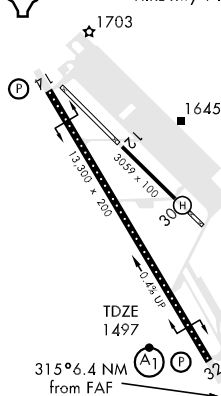
Ultralights and gliders in
vicinity of Hemet-Ryan Arpt.

PARADISE
112.2 PDZ
Chan 59



EMERG SAFE ALT 100 NM 13,800
FROM "RIV" TACAN

ELEV 1536 TDZL/CL Rwy 32
HIRL Rwy 14-32

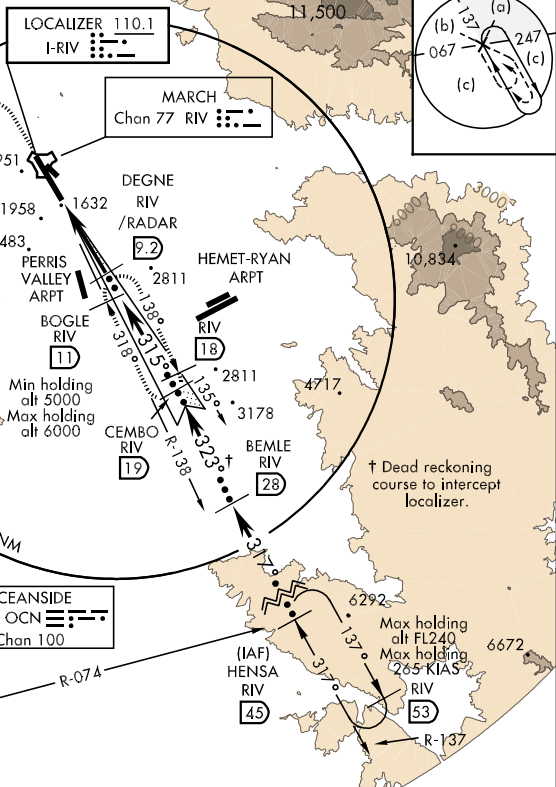


FAF to MAP 5.9 NM

Knots	120	140	160	180	200
Min:Sec	2:57	2:32	2:13	1:58	1:46

RIVERSIDE, CALIFORNIA

Amdt 5 09351



5000 RIV	RIV R-138	BOGLE RIV 11	DEGNE RIV /RADAR 9.2	Intcp Lczt CEMBO RIV 19	BEMLE RIV 28	HENSA RIV /45
RIV TACAN	KIMDE RIV 3.3	RIV 3.9	RIV 3.600	315°	317°	FL240
3600	3600	6000	323°	12,000	GS 3.00° TCH 59	
CATEGORY	C	D	E			
S-ILS 32 *	1697/24	200	(200-½)			
S-LOC 32 **	1920/40	423 (400-¾)	1920/50	423 (400-1)		
CIRCLING ***	2260-2 724 (800-2)	2260-2¼ 724 (800-2¼)	2800-3 1264 (1300-3)			

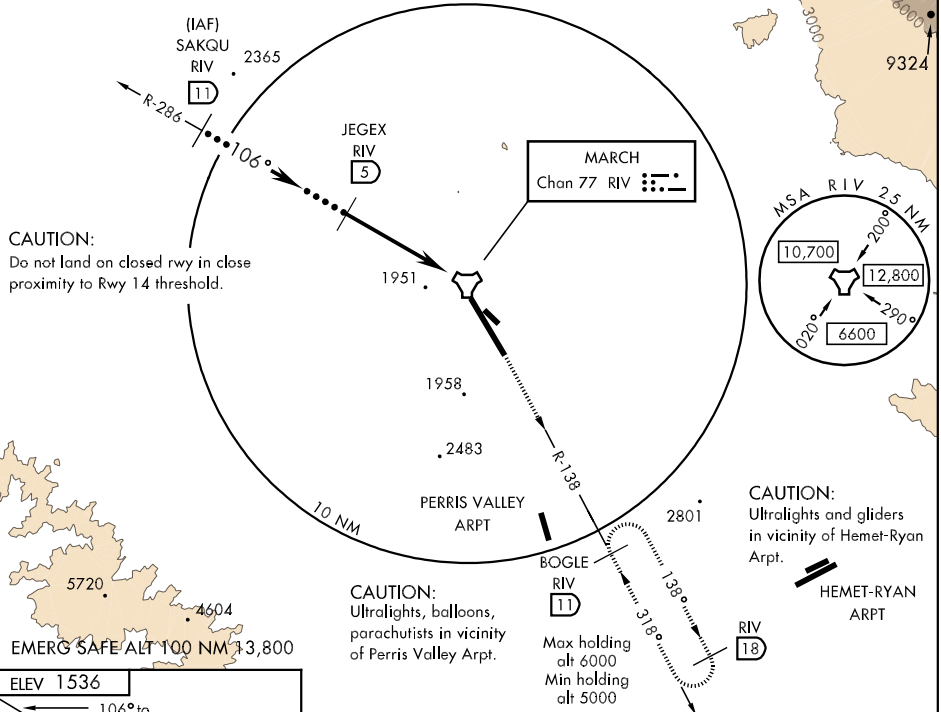
33°53'N-117°16'W

MARCH ARB (KRIV)

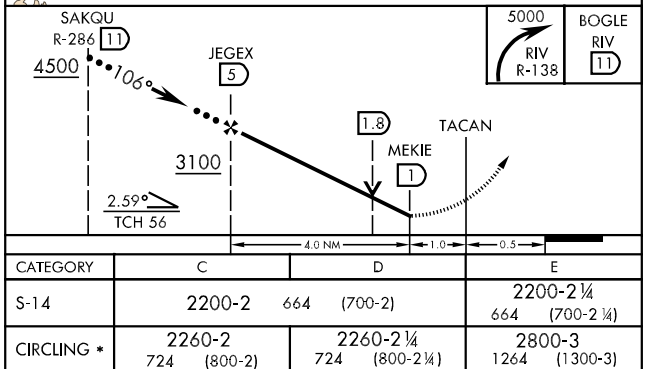
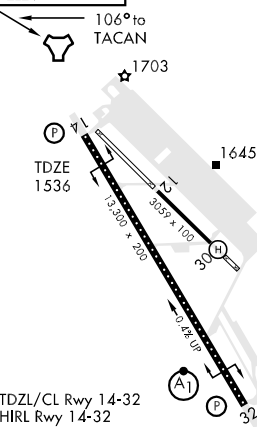
MARCH ARB (KRIV)

MISSED APPROACH: Climb out RIV TACAN R-138
direct BOGLE continue climb in hold to 5000.

CLNC DEL
121.75 335.8



ELEV 1536



TACAN RIV Chan 77	APCH CRS 318°	Rwy ldg 13,300 TDZE 1497 Arpt Elev 1536
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JAL-348 [USAF]

MARCH ARB (KRIV)

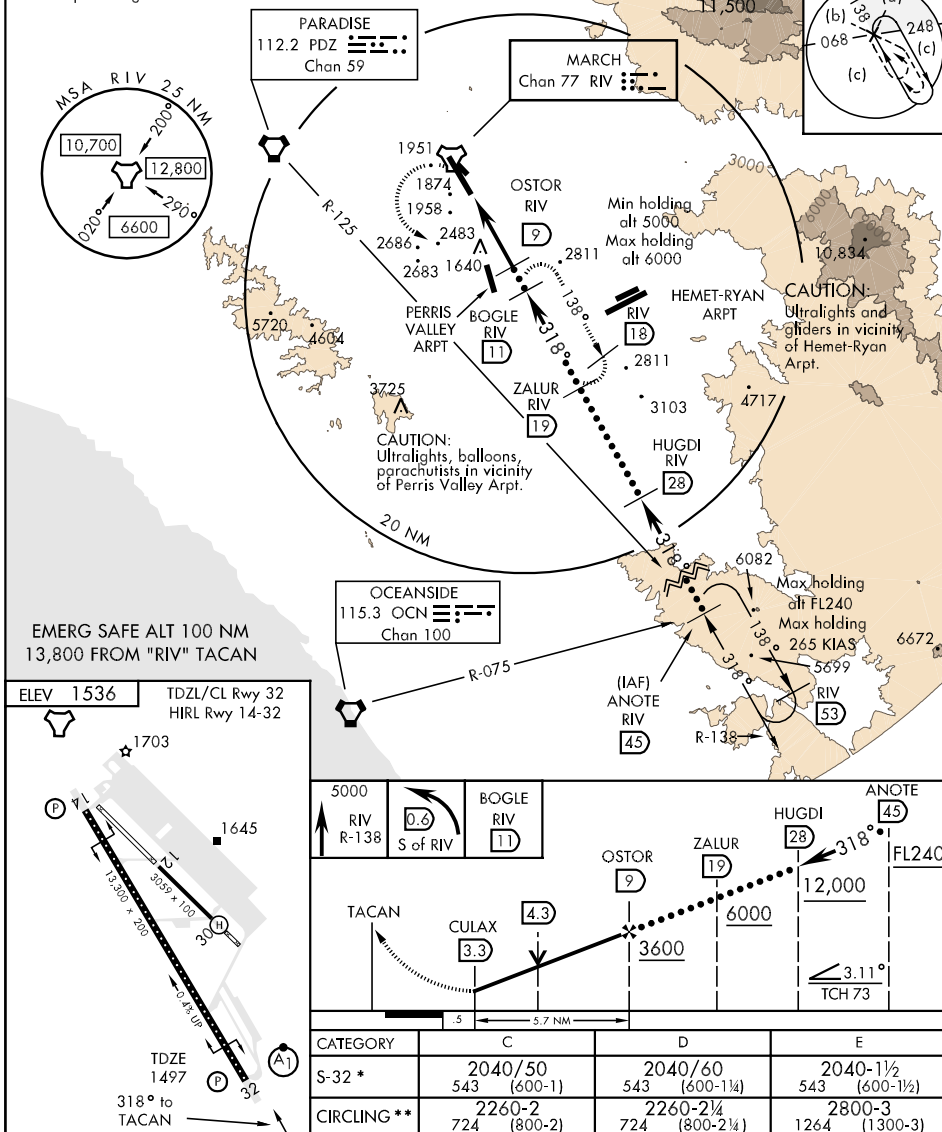
* When ALS inop, increase CAT C vis to 1½ miles,
CAT D vis to 1¾ miles, and CAT E vis to 2 miles.

ALSF-1
(A1)

MISSED APPROACH: Climb on RIV TACAN R-138
to 5000. At .6 DME South of RIV, turn left to intercept
RIV R-138 direct BOGLE continue climb in hold to 5000.

ATIS 134.75 239.05	SOCAL APP CON 134.0 278.3	MARCH TOWER 127.65 253.5	GND CON 121.75 335.8	CLNC DEL 121.75 335.8
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** Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.



SW-3, 14 JAN 2010 to 11 FEB 2010

VOR HDF
113.4APCH CRS
315°Rwy ldg 13,300
TDZE 1497
Arpt Elev 1536

JAL-348 [USAF]

MARCH ARB (KRIV)

▼ * When ALS inop, increase CAT C vis to 1½ miles,
CAT D vis to 1¾ miles and CAT E vis to 2 miles.
** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

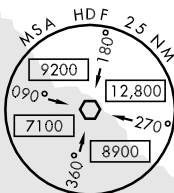


MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing the PDZ VORTAC R-080 turn left direct HDF, continue climb in hold to 5000.

ATIS
134.75 239.05SOCAL APP CON
134.0 278.3MARCH TOWER
127.65 253.5GND CON
121.75 335.8CLNC DEL
121.75 335.8

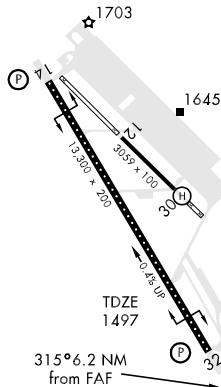
PARADISE
112.2 PDZ
Chan 59

CAUTION:
Ultralights, balloons,
parachutists in vicinity
of Perris Valley Arpt.



EMERG SAFE ALT 100 NM
13,800 FROM "HDF" VOR

ELEV 1536

TDZL/CL Rwy 32
HIRL Rwy 14-32

FAF to MAP 5.2 NM

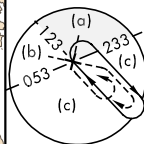
Knots	120	140	160	180	200
Min:Sec	2:36	2:14	1:57	1:44	1:34

RIVERSIDE, CALIFORNIA

Amdt 8, 09351

33°53'N-117°16'W

MARCH ARB (KRIV)



HOMELAND
113.4 HDF

Max holding
alt 6000
Min holding
alt 5000

PERRIS VALLEY
ARPTHEMET-RYAN
ARPT

CAUTION:
Ultralights and gliders in vicinity
of Hemet-Ryan Arpt.

WAYLE
RADARWAREK/
RADAR

OCEANSIDE
115.3 OCN
Chan 100

JULIAN
114.0 JLI
Chan 87

5000

HDF

PDZ

R-315

R-080

COMGA INT
/RADARWAYLE INT
/RADARWAREK INT
JLI R-303
OCN R-076
/RADARJLI
VORTAC/RADAR
HDF VOR

3600

315°

12,000

FL240

3.11°

TCH 73

CATEGORY

C

D

E

S-32 *

2040/50

2040/60

2040-1½

CIRCLING **

2260-2

2260-2¼

2800-3

543

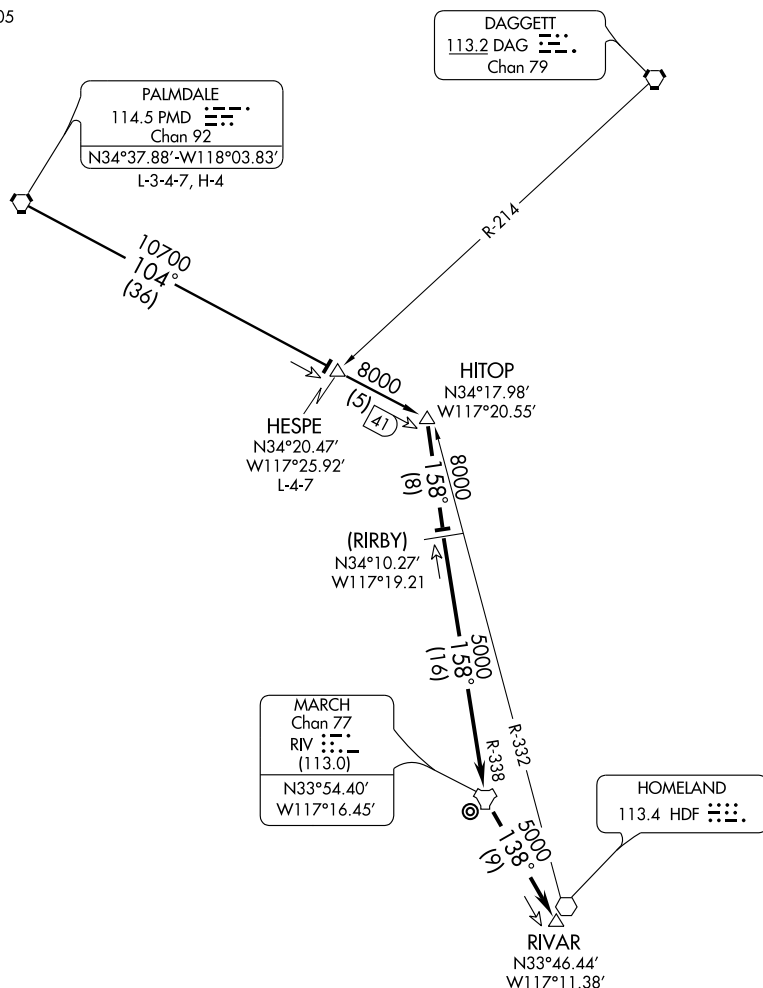
543

724

1264

(1300-3)

ATTIS ★ 239.05



NOTE: TACAN equipped aircraft only.

NOTE: Chart not to scale.

HESPE TRANSITION (HESPE.HITOP1): From over HESPE INT via PMD R-104 to HITOP INT. Thence . . .

PALMDALE TRANSITION (PMD.HITOP1): From over PMD VORTAC via PMD R-104 to HITOP INT. Thence . . .

. . . From over HITOP INT via RIV R-338 to RIV TACAN. Thence via RIV R-138 to RIVAR DME. Expect radar vectors to final approach course.

LOC I-RIV **110.1** APCH CRS **315°** Rwy Idg **13,300**
TDZE **1497**
Arpt Elev **1536**

AL-348 [USAF]

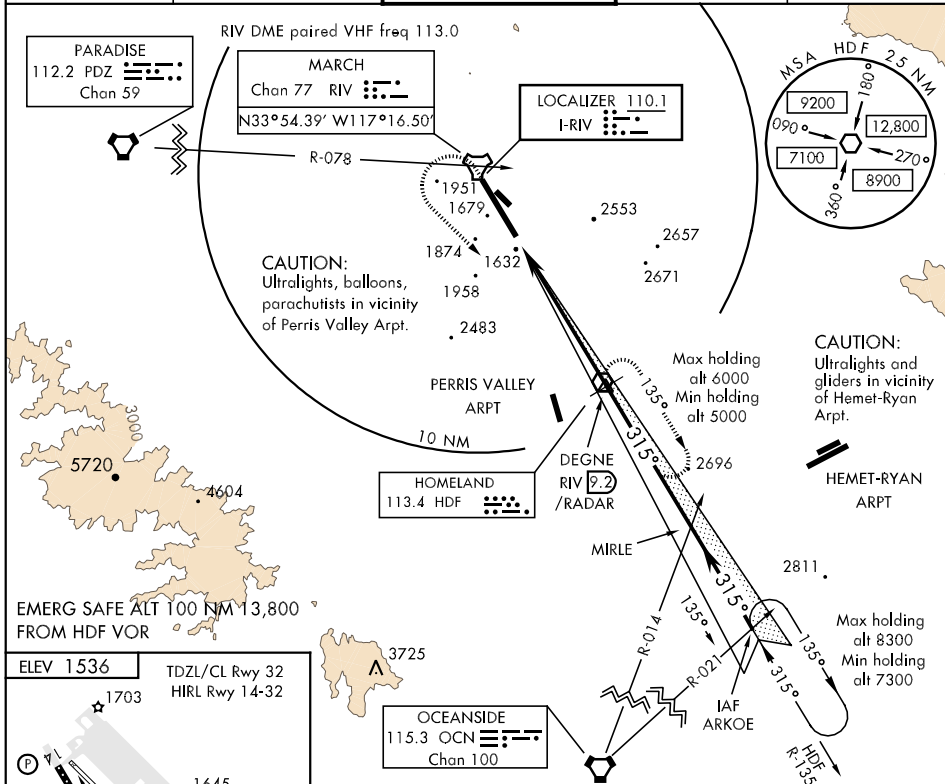
MARCH ARB (KRIV)

▼ * When ALS inop, increase CAT A-E RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT A-B RVR to 50 and vis to 1,
CAT C-D RVR to 60 and vis is to 1¼, CAT E vis to 1½.
*** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

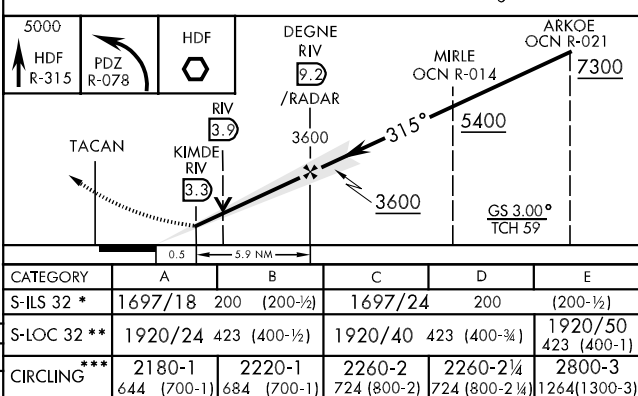
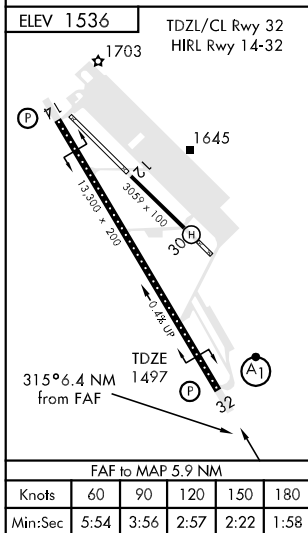


MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing PDZ VORTAC R-078 turn left direct HDF continue climb in hold to 5000.

ATIS **134.75 239.05** SOCAL APP CON **134.0 278.3** MARCH TOWER **127.65 253.5** GND CON **121.75 335.8** CLNC DEL **121.75 335.8**



SW-3, 14 JAN 2010 to 11 FEB 2010



LOC I-RIV
110.1

APCH CRS
315°

Rwy Idg	13,300
TDZE	1497
Arpt Elev	1536

AL-348 [USAF]

MARCH ARB (KRIV)



ALSF-1



MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing PDZ VORTAC R-078 turn left direct HDF continue climb in hold to 5000.

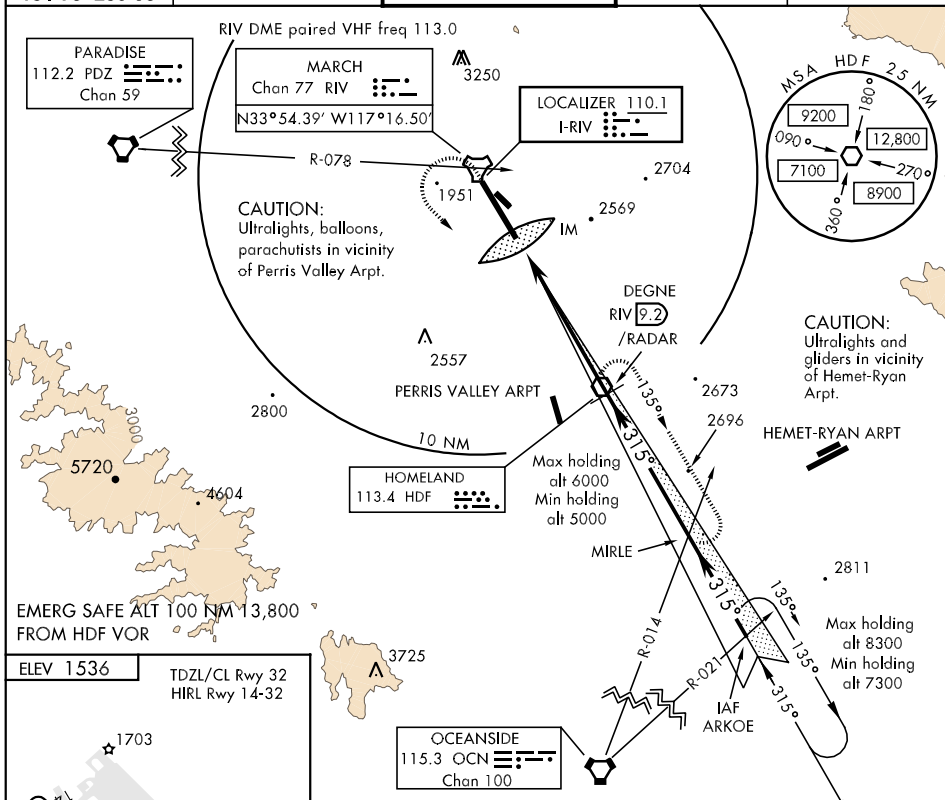
ATIS
134.75 239.05

SOCAL APP CON
134.0 278.3

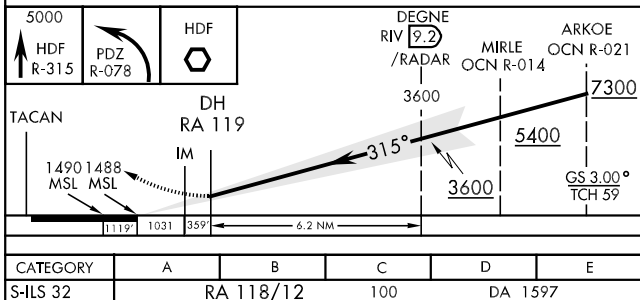
MARCH TOWER
127.65 253.5

GND CQN
121.75 335.8

CLNC DEL
121.75 335.8



CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



RIVERSIDE, CALIFORNIA

33°53'N-117°16'W

MARCH ARB (KRIV)

Amdt 2 09351

LOC I-RIV <u>110.1</u>	APCH CRS 315°	Rwy Ldg 13,300 TDZE 1497 Arpt Elev 1536
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AL-348 [USAF]

MARCH ARB (KRIV)

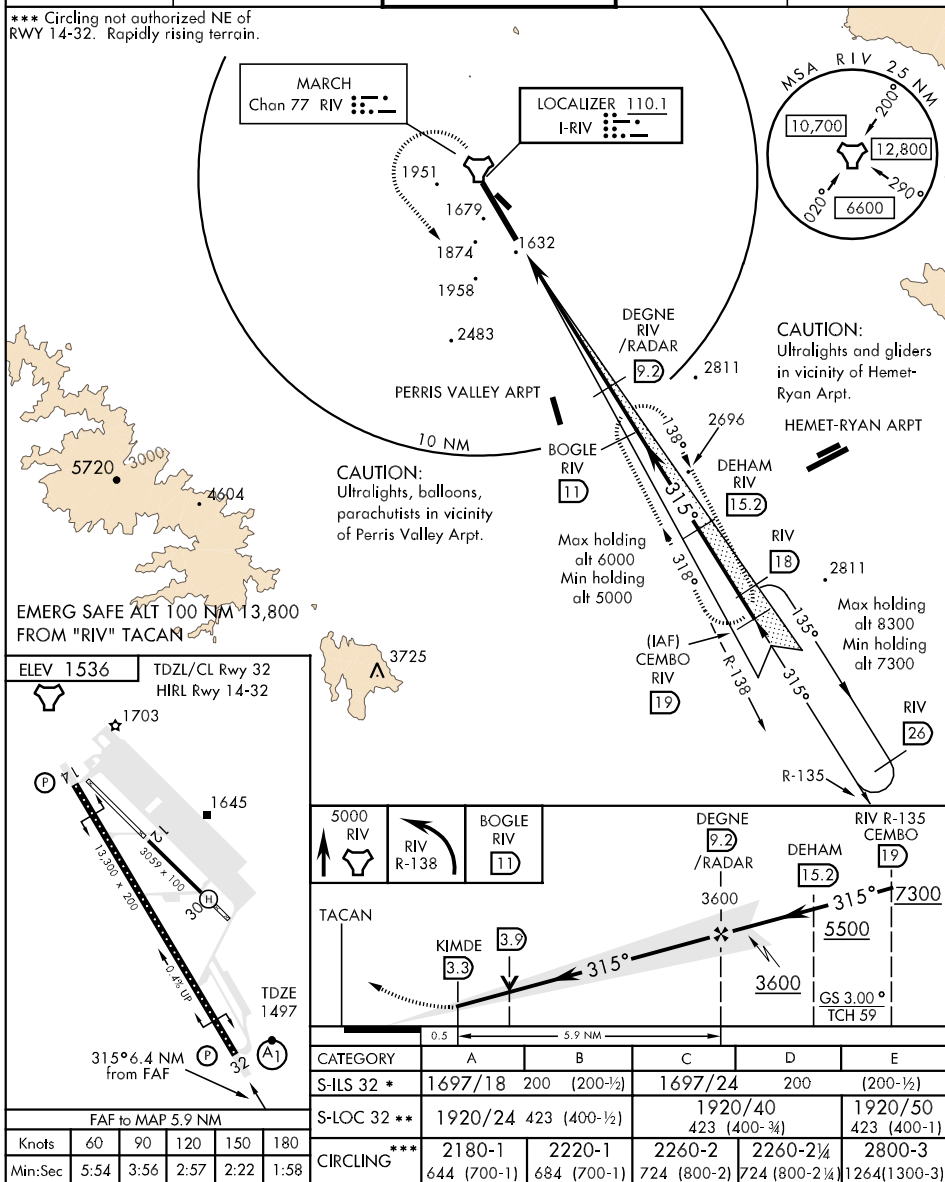
- T** * When ALS inop, increase CAT A-E RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD RVR to 60 and vis to $1\frac{1}{4}$ mile, CAT E vis to $1\frac{1}{2}$ mile.



MISSED APPROACH: Climb direct RIV TACAN, then turn left to intercept RIV R-138 direct BOGLE, continue climb in hold to 5000.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8

*** Circling not authorized NE of
RWY 14-32. Rapidly rising terrain.



SW-3, 14 JAN 2010 to 11 FEB 2010

RIVERSIDE, CALIFORNIA

33°53'N-117°16'W

MARCH ARB (KRIV)

Amdt 3 09351

MARCH FOUR ARRIVAL

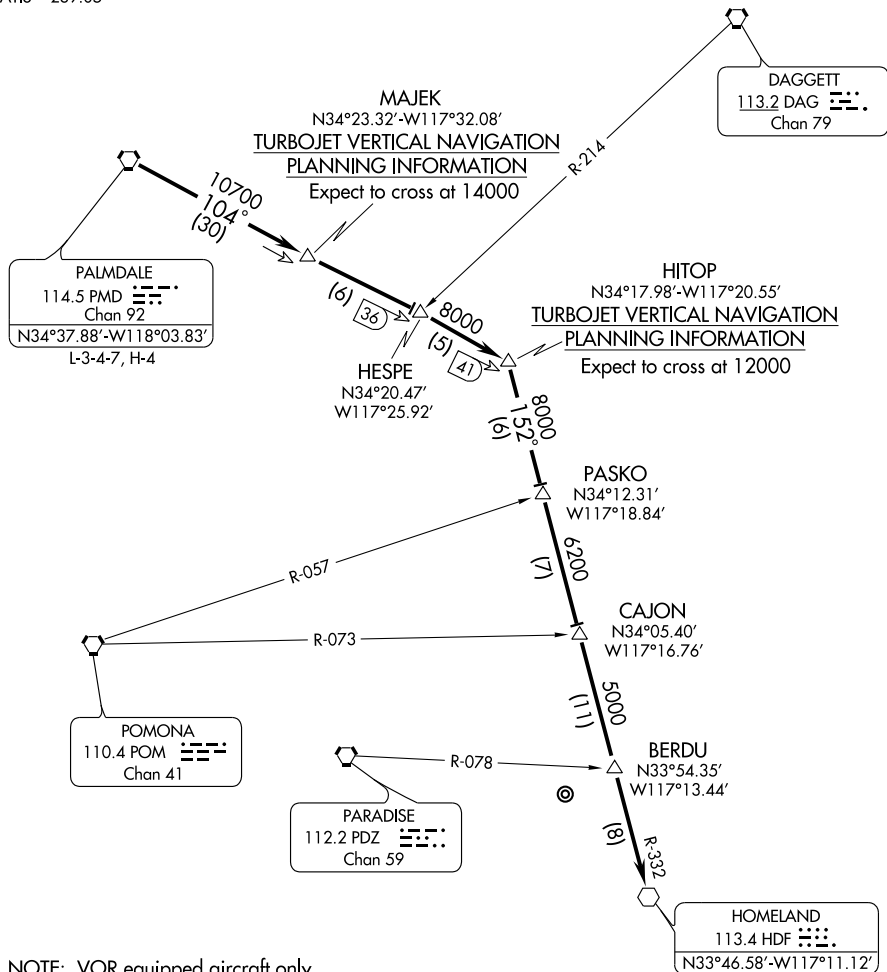
ST-348 (FAA)

MARCH ARB
RIVERSIDE, CALIFORNIA

MARCH APP CON★

133.5 324.1

ATIS★ 239.05



NOTE: VOR equipped aircraft only.

NOTE: Chart not to scale.

From over PMD VORTAC via PMD R-104 to HITOP INT. Thence via
HDF R-332 to HDF VOR. Expect VOR approach or vector to intercept
ILS Rwy 32.

SKYES-ONE DEPARTURE (SKYES 1 • SKYES)

SHL-348 [USAF]

RIVERSIDE, CALIFORNIA

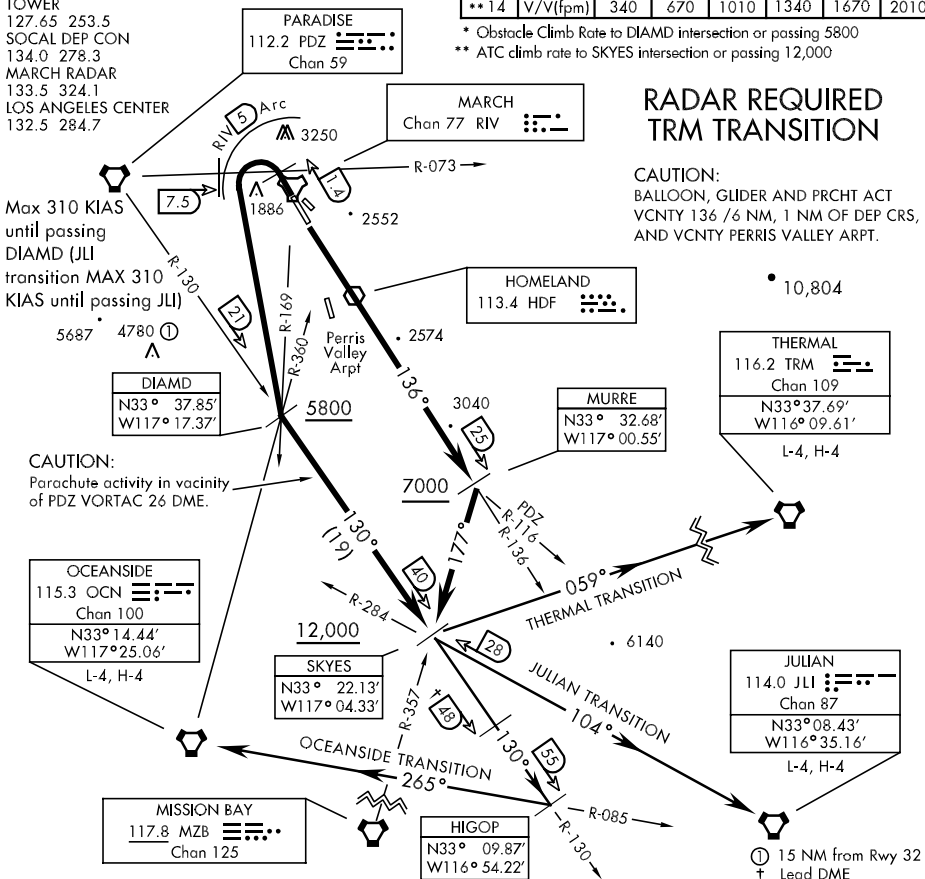
ATIS 134.75 239.05
GND CON/CLNC DEL
121.75 335.8
TOWER
127.65 253.5
SOCAL DEP CON
134.0 278.3
MARCH RADAR
133.5 324.1
LOS ANGELES CENTER
132.5 284.7

Rwy	Knots	60	120	180	240	300	360
* 32	V/V(fpm)	250	500	750	1000	1250	1500
** 32	V/V(fpm)	310	620	920	1230	1530	1840
** 14	V/V(fpm)	340	670	1010	1340	1670	2010

* Obstacle Climb Rate to DIAMD intersection or passing 5800
** ATC climb rate to SKYES intersection or passing 12,000

RADAR REQUIRED TRM TRANSITION

CAUTION:
BALLOON, GLIDER AND PRCHT ACT
VCNTY 136 /6 NM, 1 NM OF DEP CRS,
AND VCNTY PERRIS VALLEY ARPT.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Climb via RIV TACAN R-136 or climb direct HDF VOR, then via HDF R-136 to MURRE, intercept MZB VORTAC R-357 to SKYES, Cross MURRE at or above 7000, and SKYES at or above 12,000. Thence via transition or assigned route.

TAKE-OFF RWY 32: Climb on track 315°, then turn left crossing PDZ VORTAC R-073/RIV TACAN 1.4 DME direct DIAMD, proceed no closer than 7.5 DME PDZ. Remain within 5 DME RIV. Cross DIAMD at or above 5800. Intercept PDZ R-130 to SKYES, cross SKYES at or above 12,000. Thence via transition or assigned route.

JULIAN TRANSITION (SKYES 1 • JLI): JLI VORTAC R-284 direct JLI. MAX 310 KIAS until passing JULIAN VORTAC

OCEANSIDE TRANSITION (SKYES 1 • OCN): Via SKYES direct HIGOP intercept OCN VORTAC R-085 to OCN.

THERMAL TRANSITION (SKYES 1 • TRM): TRM VORTAC bearing 059° to TRM (Radar required)

SKYES-ONE DEPARTURE (SKYES 1 • SKYES)

RIVERSIDE, CALIFORNIA

SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN RIV
Chan 77

APCH CR
106°

Rwy Idg	13,300
TDZE	1536
Arpt Elev	1536

AL-348 [USAF]

MARCH ARB (KRIV)

T * Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.

MISSED APPROACH: Climb out RIV TACAN R-138 direct BOGLE, continue climb in hold to 5000.

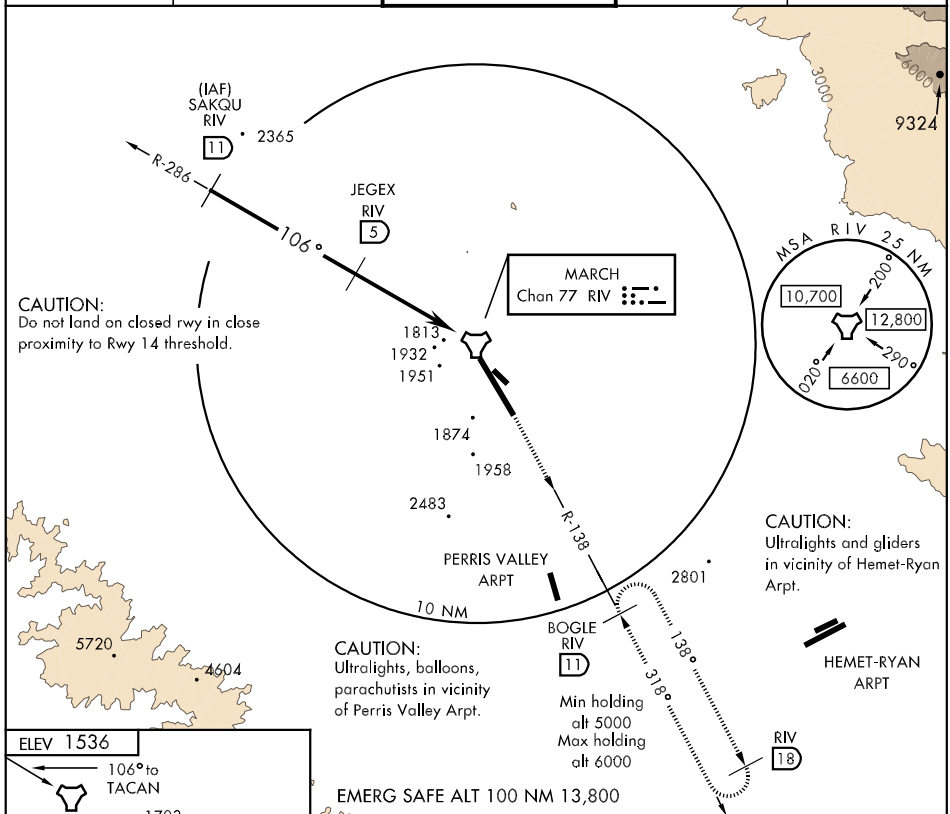
ATIS
134.75 239.05

SOCAL APP CON
134.0 278.3

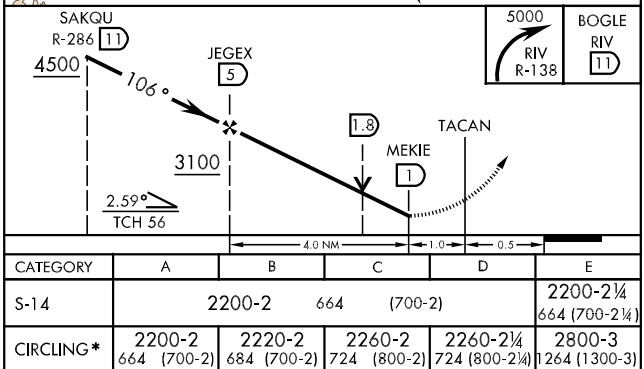
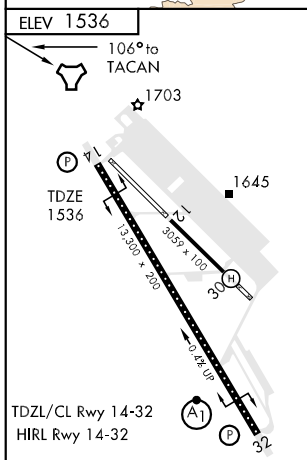
MARCH TOWER
127.65 253.5

GND CON
121.75 335.8

CLNC DEL
121.75 335.8



EMERG SAFE ALT 100 NM 13,800



TACAN RIV Chan 77	APCH CRS 318°	Rwy ldg 13,300 TDZE 1497 Arpt Elev 1536
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AL-348 [USAF]

MARCH ARB (KRIV)

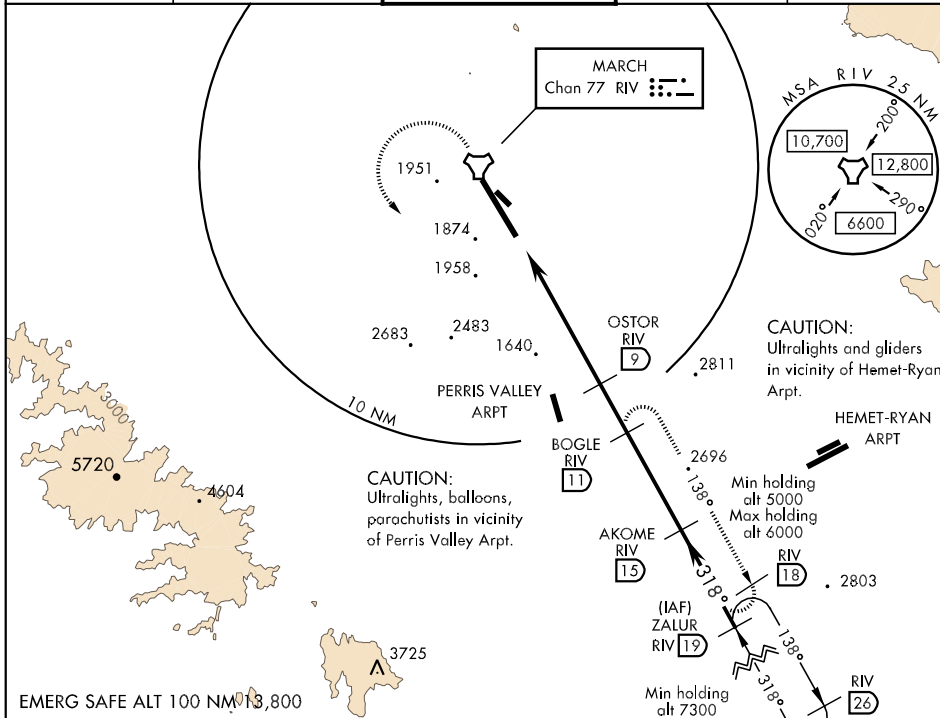
- ▼ *When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT D vis to 1¼ and CAT E vis to 2.
 ** Circling not authorized NE of Rwy 14-32.
 Rapid rising terrain.

ALSF-1

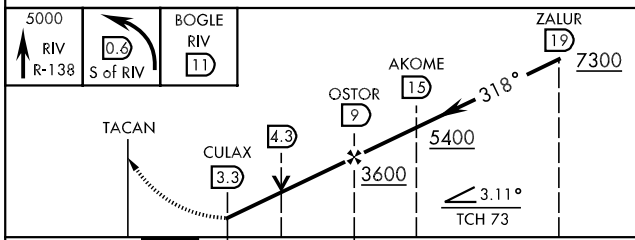
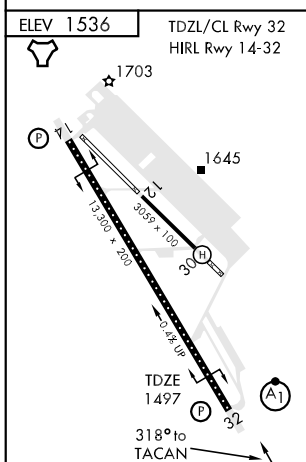


MISSED APPROACH: Climb on RIV TACAN R-138 to 5000. At 0.6 DME South of RIV, turn left to intercept RIV R-138 direct BOGGLE. Continue climb in hold to 5000.

ATIS 134.75 239.05	SOCAL APP CON 134.0 278.3	MARCH TOWER 127.65 253.5	GND CON 121.75 335.8	CLNC DEL 121.75 335.8
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EMERG SAFE ALT 100 NM 13,800



CATEGORY	A	B	C	D	E
S-32 *	2040/24 543 (600-½)	2040/50 543 (600-1)	2040/60 543 (600-1¼)	2040-1½ 543 (600-1½)	2040-3 1264 (1300-3)
CIRCLING **	2180-1 644 (700-1)	2220-1 684 (700-1)	2260-2 724 (800-2)	2260-2½ 724 (800-2½)	2800-3

VOR HDF
113.4APCH CRS
315°Rwy Idg **13,300**
TDZE **1497**
Arpt Elev **1536**

AL-348 [USAF]

MARCH ARB (KRIV)

▼ When ALS inop, increase CAT AB RVR to 60 and vis to 1¼ miles,
CAT C vis to 1½ miles, CAT D vis to 1¾ miles, CAT E vis to 2 miles.
** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

ALSF-1



MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing PDZ VORTAC R-080 turn left direct HDF continue climb in hold to 5000.

ATIS
134.75 239.05SOCAL APP CON
134.0 278.3MARCH TOWER
127.65 253.5GND CON
121.75 335.8CLNC DEL
121.75 335.8

PARADISE
112.2 PDZ
Chan 59

CAUTION:
Ultralights, balloons,
parachutists in vicinity
of Perris Valley Arpt.

PERRIS VALLEY
ARPT

IAF
HOMELAND
113.4 HDF

HEMET-RYAN
ARPT

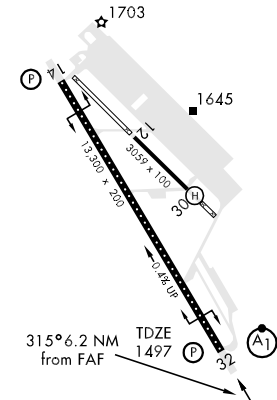
CAUTION:
Ultralights and gliders
in vicinity of Hemet-Ryan
Arpt.

EMERG SAFE ALT 100 NM 13,800

ELEV 1536

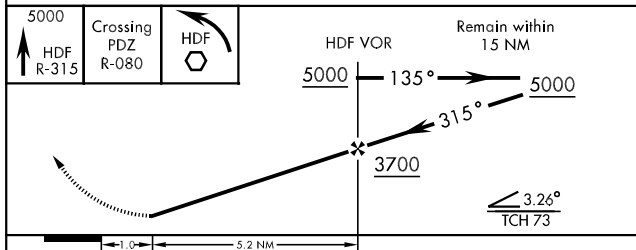
TDZL/CL Rwy 14-32
HIRL Rwy 14-32

VGSI and descent angles
not coincident



FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44



CATEGORY	A	B	C	D	E
S-32 *	2040/40 543 (600-¾)	2040/50 543 (600-1)	2040/60 543 (600-1 ¼)	2040-1½ 543 (600-1 ½)	2040-1½ 543 (600-1 ½)
CIRCLING **	2180-1 ¼ 644 (700-1 ¼)	2220-1 ¼ 684 (700-1 ¼)	2260-2 724 (800-2)	2260-2 ¼ 724 (800-2 ¼)	2800-3 1264 (1300-3)



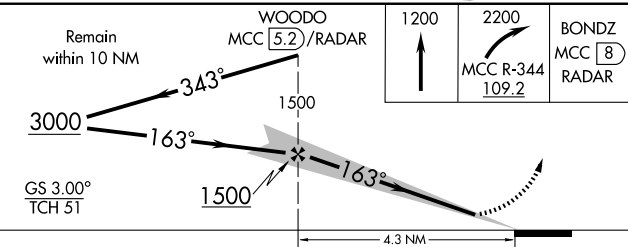
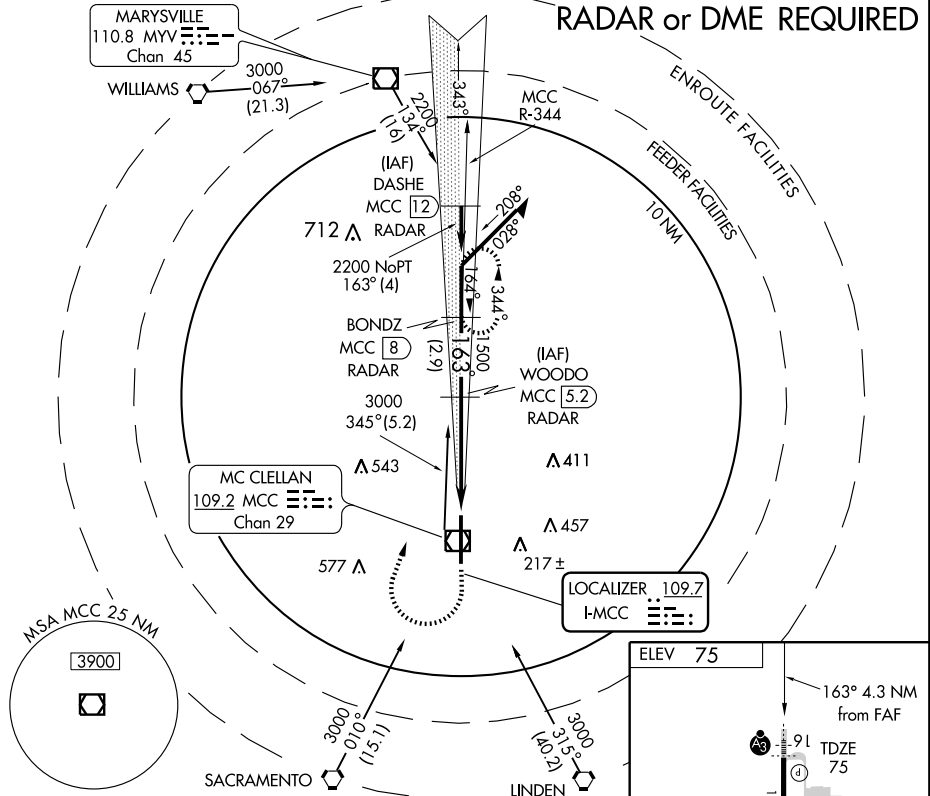
ILS RWY 16

LOC I-MCC	APP CRS	Rwy Idg	10600
109.7	163°	TDZE	75
		Apt Elev	75

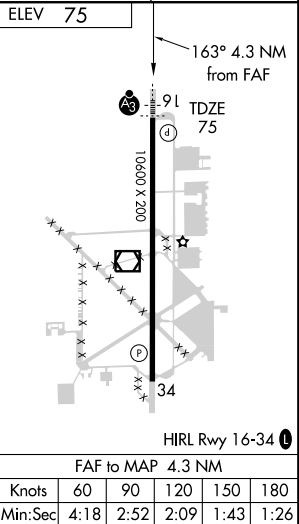
SACRAMENTO/ MC CLELLAN AIRFIELD (MCC)

NA	If local altimeter setting not received, use Sacramento Intl altimeter setting and increase all DH/MDAs 40 feet. DME from MCC VOR/DME.	SSALR	MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 via MCC VOR/DME R-344 to BONDZ/8 DME/RADAR and hold.
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AWOS-3	NORCAL APP CON	CLNC DEL	UNICOM
125.975	127.4 317.5	119.825	122.975 (CTAF) 0



CATEGORY	A	B	C	D
S-ILS 16		275/24 200 (200-½)		
S-LOC 16		460/24 385 (400-½)		460/40 385 (400-¾)
CIRCLING		NA		



KATSO THREE DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 163° until crossing SAC VORTAC R-050, and left turn heading 120° to intercept SAC R-080 to KATSO INT. Thence...

TAKE-OFF RUNWAY 34: Climb heading 343° to 1000 then climbing right turn heading 050° to intercept HNW VOR/DME R-265 to HNW VOR/DME and via HNW R-150 to KATSO INT. Thence...

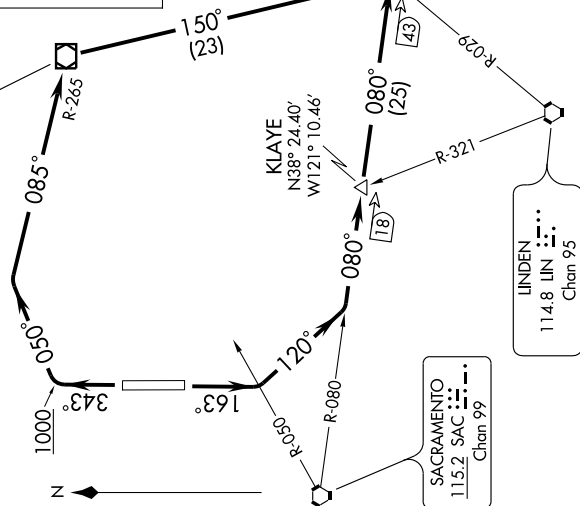
...via (transition) or (assigned route). Expect clearance to filed altitude after KATSO INT.

COALDALE TRANSITION [KATSO3.OAL]: From over KATSO INT via SAC R-080 to IQIGO INT and OAL R-263 to OAL VORTAC.

MINA TRANSITION [KATSO3.MVA]: From over KATSO INT via SAC R-080 to IQIGO INT and MVA R-242 to MVA VORTAC.

NORCAL DEP CON
127.4 317.5
CINC DEL
119.825
UNICOM 122.975 (CTAF)

HANGTOWN
115.5 HNW
Chan 102
N38° 43.48' W120° 44.96'



MINA
115.1 MVA
Chan 98
N38° 33.92' W118° 01.97'
L-9, H-3

COALDALE
117.7 OAL
Chan 124
N38° 00.20' W117° 46.23'
L-9, H-3

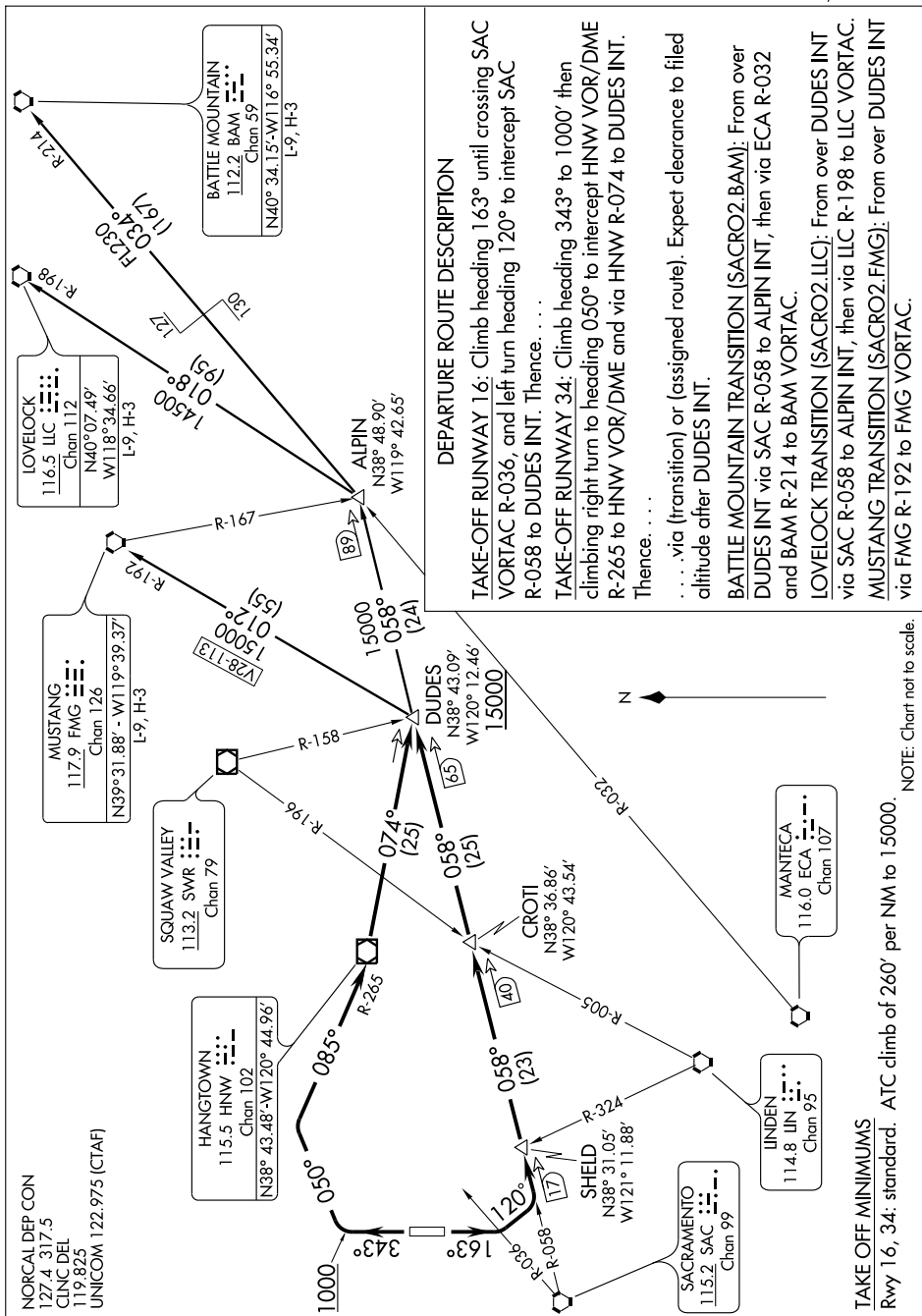
TAKE-OFF MINIMUMS

Rwy 16, 34: Standard. ATC climb of 205' per NM to 9000.

NOTE: DME required for COALDALE and MINA transitions.

NOTE: Chart not to scale.

SACRO TWO DEPARTURE



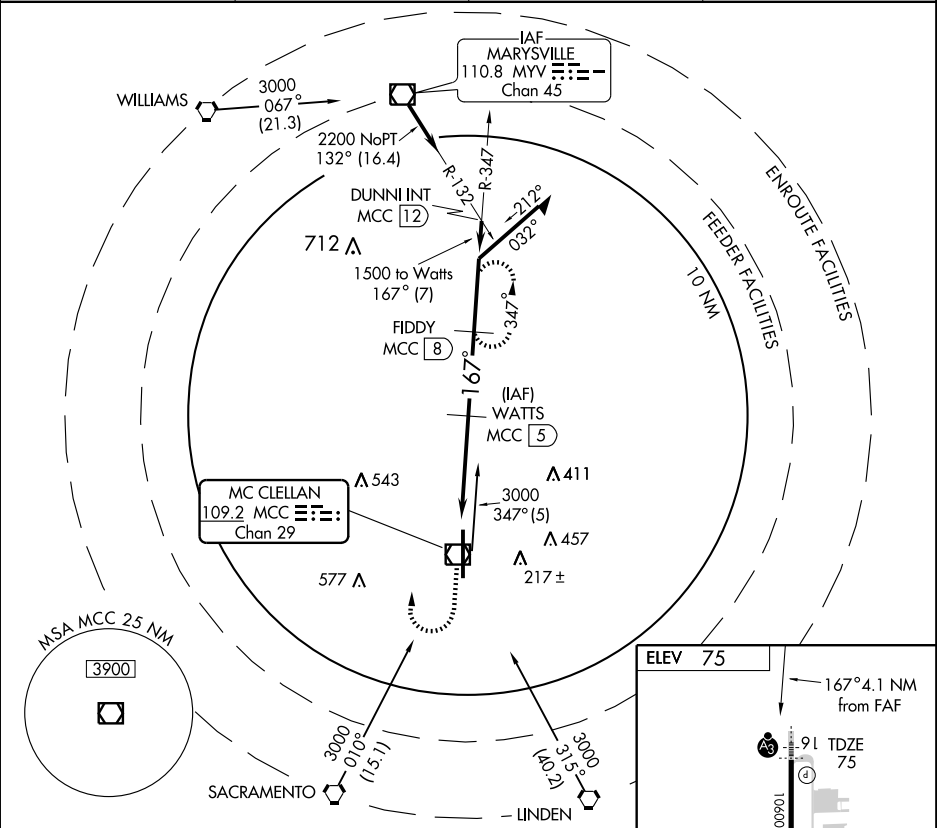
VOR/DME MCC	APP CRS	Rwy Idg	10600
109.2	167°	TDZE	75
Chan 29		Apt Elev	75

VOR/DME RWY 16

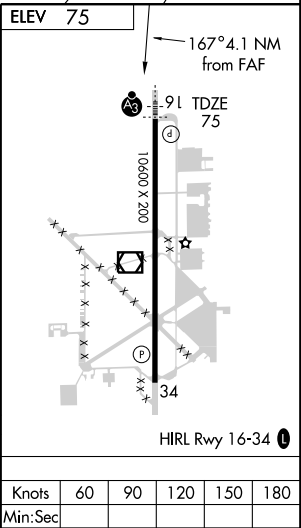
SACRAMENTO/MC CLELLAN AIRFIELD (MCC)

NA	If local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDAs 40 feet. VDP not authorized with Sacramento Intl altimeter setting.	SSALR	MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 via MCC R-347 to FIDDY/8 DME and hold.
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AWOS-3	NORCAL APP CON	CLNC DEL	UNICOM
125.975	127.4 317.5	119.825	122.975 (CTAF) 0



1200	2200	FIDDY	WATTS	
↑	MCC R-347	MCC 8	MCC 5	Remain within 10 NM
109.2				
	MCC 2.2			
	MCC 1.4			
		≤ 3.16°		
		TCH 51		
		1500		
	0.5	0.8	2.8 NM	
CATEGORY	A	B	C	D
S-16	540/24	465 (500-½)	540/40	540/50
			465 (500-¾)	465 (500-1)
CIRCLING	NA			



VOR/DME MCC	APP CRS	Rwy Idg	10600
109.2	333°	TDZE	70
Chan 29		Apt Elev	75

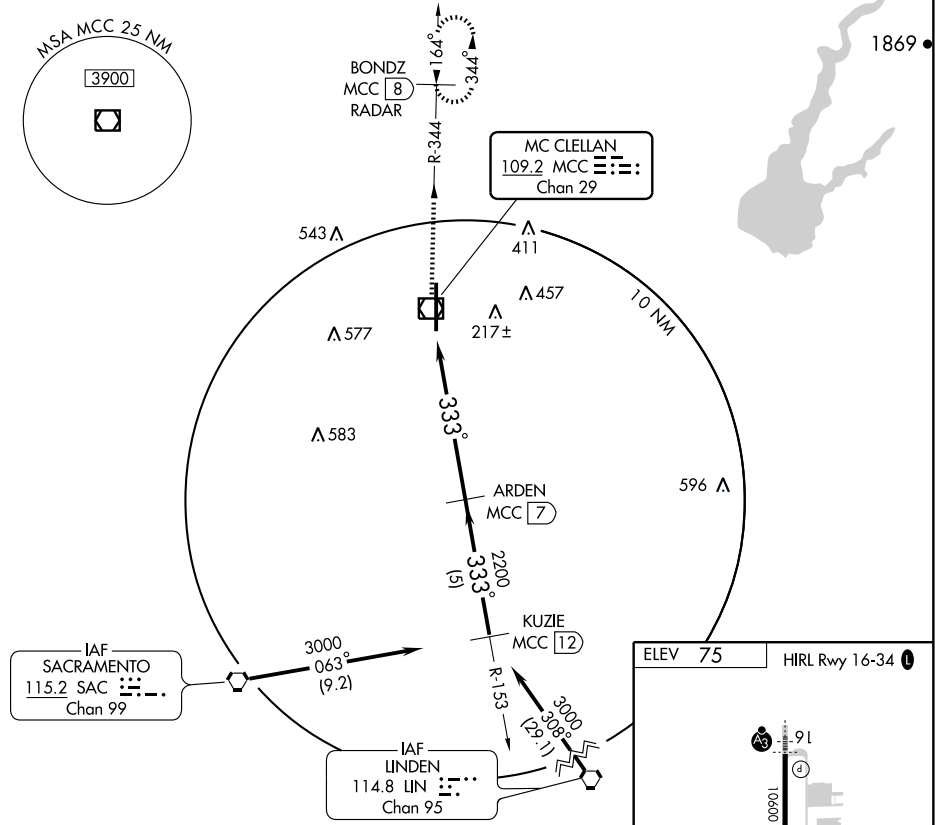
VOR/DME RWY 34

SACRAMENTO/MC CLELLAN AIRFIELD (MCC)

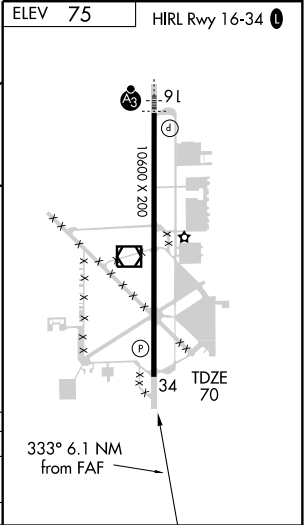
⚠ NA If local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDAs 40 feet.
VDP not authorized with Sacramento Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 2200 via MCC R-344 to BONDZ/8 DME/RADAR and hold.

AWOS-3 125.975	NORCAL APP CON 127.4 317.5	CLNC DEL 119.825	UNICOM 122.975 (CTAF) 0
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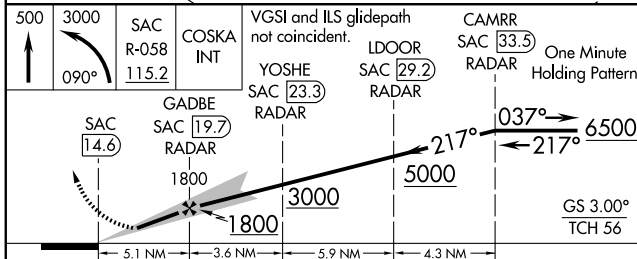
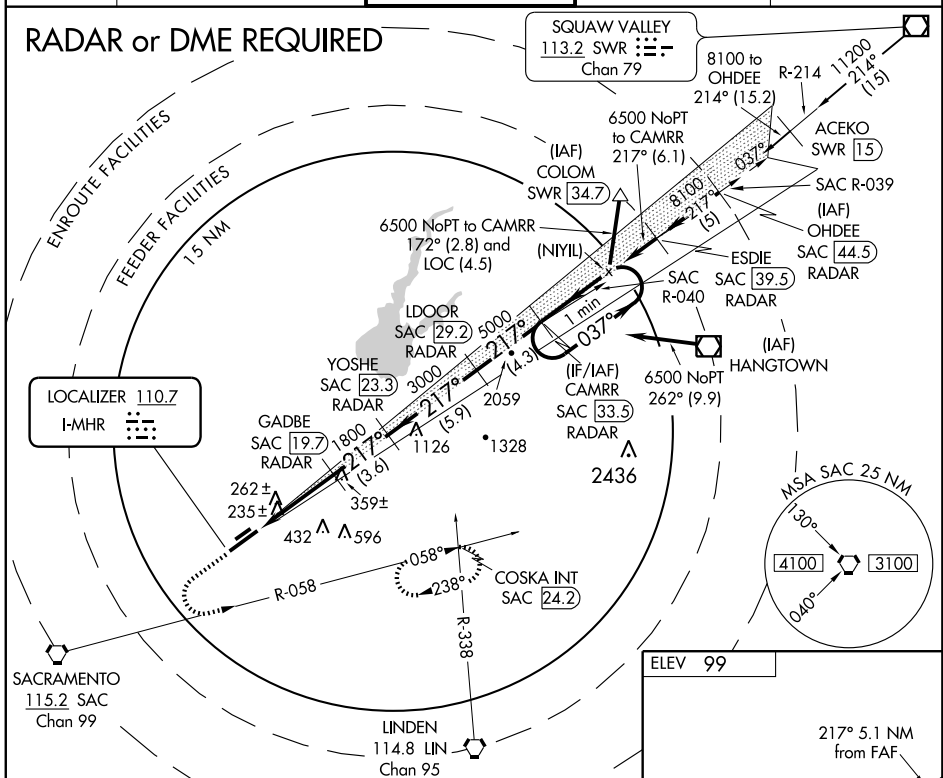
2200	MCC R-344 109.2	BONDZ MCC 8 RADAR	ARDEN MCC 7	KUZIE MCC 12
	MCC 2.1 1.4			
			333°	3000
			2200	Procedure Turn NA
			≤ 3.20° TCH 52	
	0.5	0.7	4.9 NM	5 NM
CATEGORY	A	B	C	D
S-34	500-1	430 (500-1)	500-1¼ 430 (500-1¼)	500-1½ 430 (500-1½)
CIRCLING	NA			



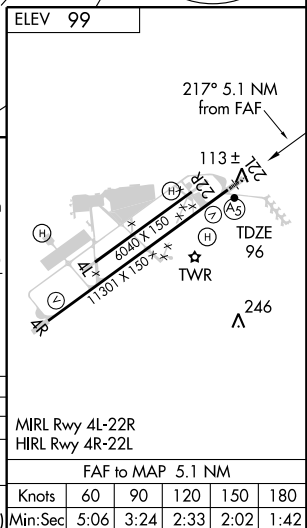


ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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RADAR or DME REQUIRED



CATEGORY	A	B	C	D	E
S-ILS 22L	296-1/2 200 (200-1/2)				
S-LOC 22L	500-1/2	404 (500-1/2)	500-3/4	404 (500-3/4)	500-1 404 (500-1)
CIRCLING	560-1	461 (500-1)	560-1 1/2 461 (500-1 1/2)	660-2 561 (600-2)	800-2 1/2 701 (800-2 1/2)



WAAS CH 45601 W04A	APP CRS 037°	Rwy Idg 11301 TDZE 79 Apt Elev 99
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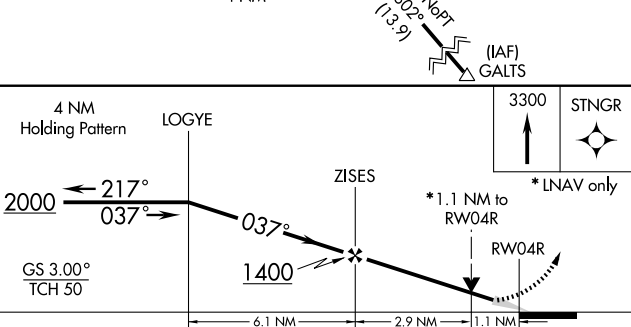
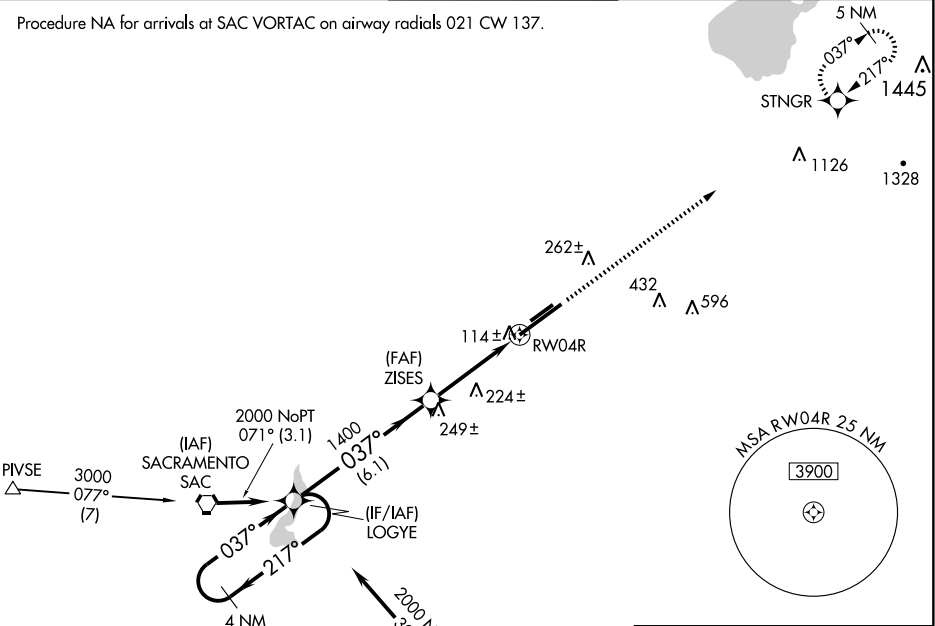
RNAV (GPS) RWY 4R
SACRAMENTO MATHER (MHR)

▼ DME/DME RNP- 0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (119°F).
Circling NA north of Rwy 4L-22R.

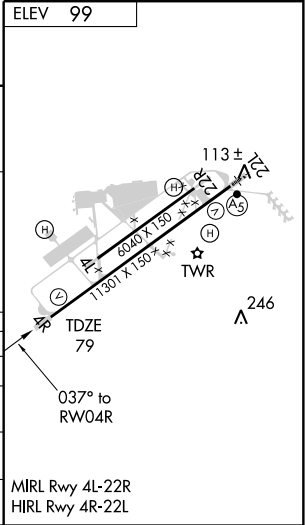
MISSED APPROACH: Climb to 3300 direct STNGR and hold.

ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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Procedure NA for arrivals at SAC VORTAC on airway radials 021 CW 137.



CATEGORY	A	B	C	D
LPV DA		329-3/4	250 (300-3/4)	
LNAV/VNAV DA		373-1	294 (300-1)	
LNAV MDA	480-1	401 (400-1)	480-1 1/4	401 (400-1 1/4)
CIRCLING	560-1	461 (500-1)	560-1 1/2	660-2



APP CRS	Rwy Idg	11301
217°	TDZE	96
	Apt Elev	99

RNAV (GPS) RWY 22L
SACRAMENTO MATHER (MHR)

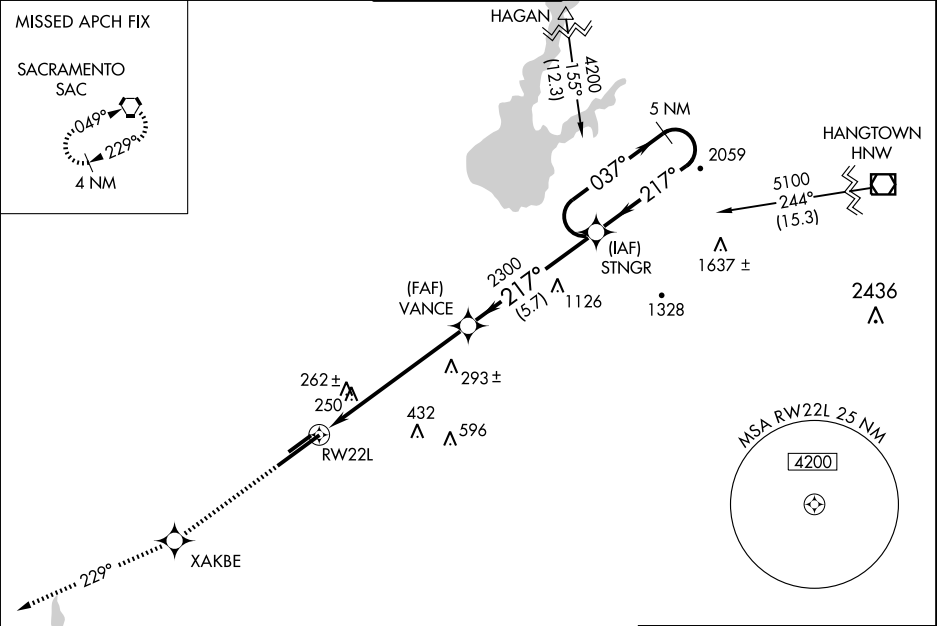
DME/DME RNP-0.3 NA.
Circling not authorized north of Rwy 4L-22R.
For inoperative MALSR increase LNAV/VNAV Cat. D visibility to 1 mile.

MALSR



MISSED APPROACH: Climb to 2000 via 217° course to XAKBE WP then via 229° course to SAC VORTAC and hold.

ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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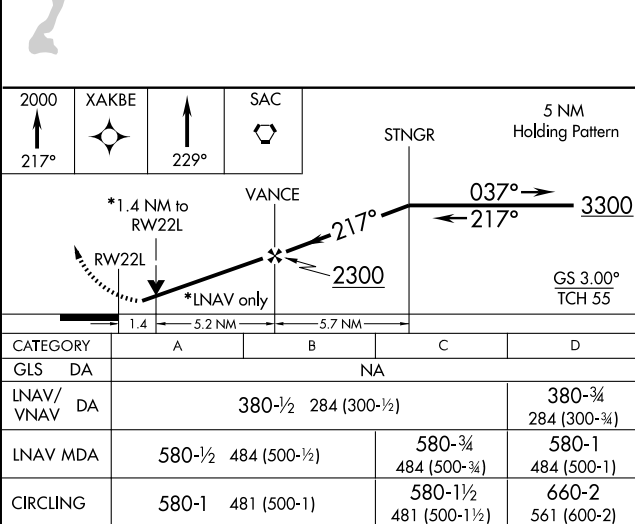


Diagram illustrating the 5 NM Holding Pattern for Rwy 22L. The pattern is defined by a 217° heading to RW22L and a 113± altitude. Key altitudes include 6040 X 150, 11301 X 150, and 246. The diagram also shows the VANCE and STNGR points, and the 2300 and 3300 altitudes. The holding pattern is defined by a 217° heading to RW22L and a 113± altitude. Key altitudes include 6040 X 150, 11301 X 150, and 246.

2000	XAKBE	229°	SAC	STNGR	5 NM Holding Pattern
217°					
*1.4 NM to RW22L		VANCE	037° → 3300		GS 3.00° TCH 55
*LNAV only			← 217°		
1.4	5.2 NM	5.7 NM			
CATEGORY	A	B	C	D	
GLS DA	NA				
LNAV/VNAV DA	380-½ 284 (300-½)		380-¾ 284 (300-¾)		
LNAV MDA	580-½ 484 (500-½)		580-¾ 484 (500-¾)		580-1 484 (500-1)
CIRCLING	580-1 481 (500-1)		580-1½ 481 (500-1½)		660-2 561 (600-2)

ELEV 99

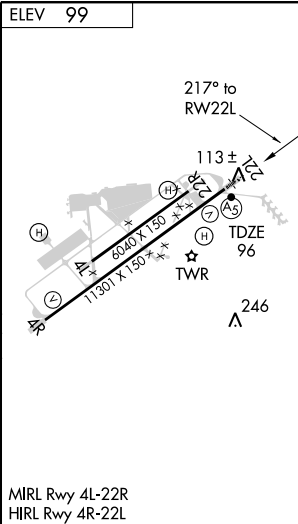


Diagram illustrating the 5 NM Holding Pattern for Rwy 22L. The pattern is defined by a 217° heading to RW22L and a 113± altitude. Key altitudes include 6040 X 150, 11301 X 150, and 246. The diagram also shows the VANCE and STNGR points, and the 2300 and 3300 altitudes. The holding pattern is defined by a 217° heading to RW22L and a 113± altitude. Key altitudes include 6040 X 150, 11301 X 150, and 246.

2000	XAKBE	229°	SAC	STNGR	5 NM Holding Pattern
217°					
*1.4 NM to RW22L		VANCE	037° → 3300		GS 3.00° TCH 55
*LNAV only			← 217°		
1.4	5.2 NM	5.7 NM			
CATEGORY	A	B	C	D	
GLS DA	NA				
LNAV/VNAV DA	380-½ 284 (300-½)		380-¾ 284 (300-¾)		
LNAV MDA	580-½ 484 (500-½)		580-¾ 484 (500-¾)		580-1 484 (500-1)
CIRCLING	580-1 481 (500-1)		580-1½ 481 (500-1½)		660-2 561 (600-2)

MIRL Rwy 4L-22R
HIRL Rwy 4R-22L

VORTAC SAC 115.2 Chan 99	APP CRS 224°	Rwy Idg 11301 TDZE 96 Apt Elev 99
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VOR/DME RWY 22L
SACRAMENTO MATHER (MHR)

T Circling not authorized north of Rwy 4L-22R.

MALSR



MISSED APPROACH: Climbing left turn to 3000 via heading 090° and SAC R-058 to COSKA Int/SAC 24.2 DME and hold.

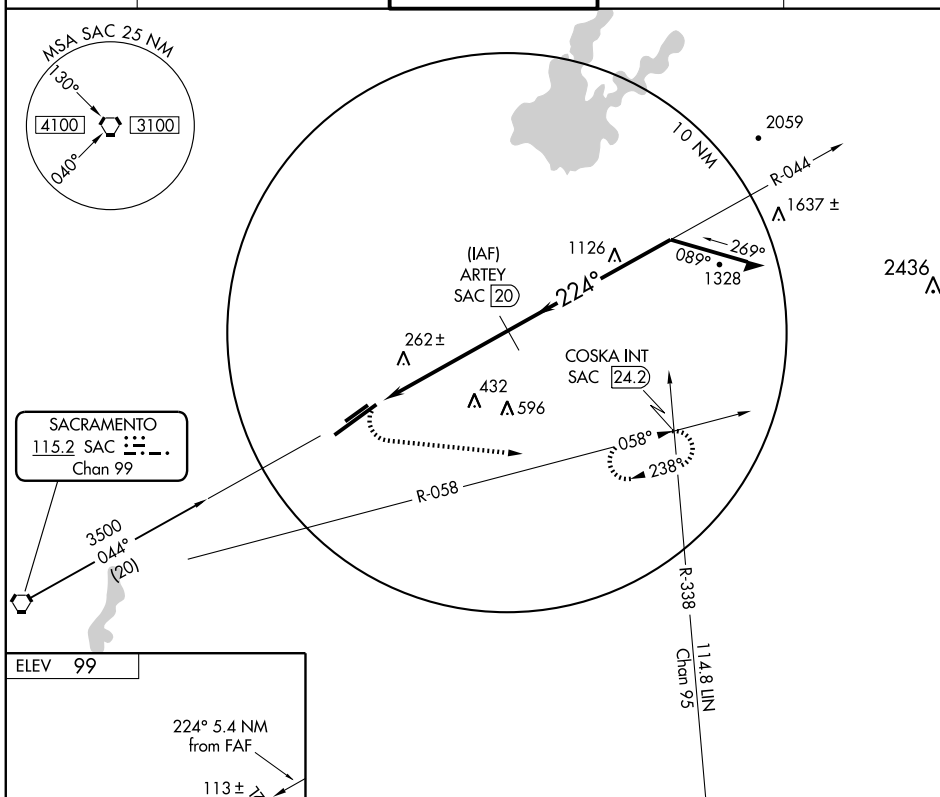
ATIS
118.325

NORCAL APP CON
127.4 317.5

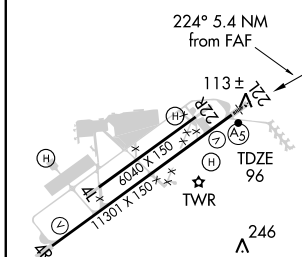
MATHER TOWER
120.65 282.25

GND CON
121.85 307.9

CLNC DEL
121,85 307,9



ELEV	99
------	----



MIRL Rwy 4L-22R
HIRL Rwy 4R-22L

Knots	60	90	120	150	180
Min:Sec					

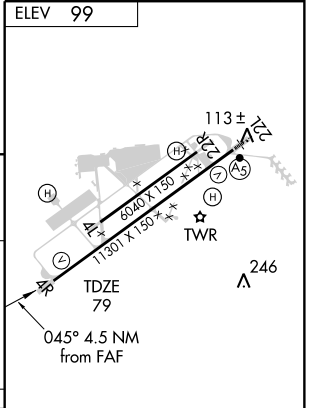
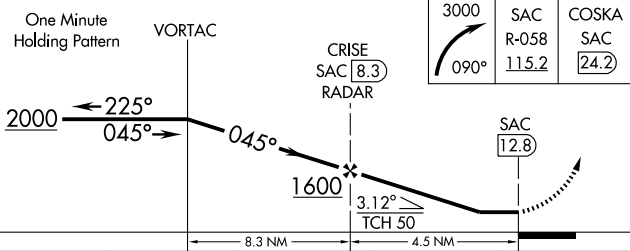
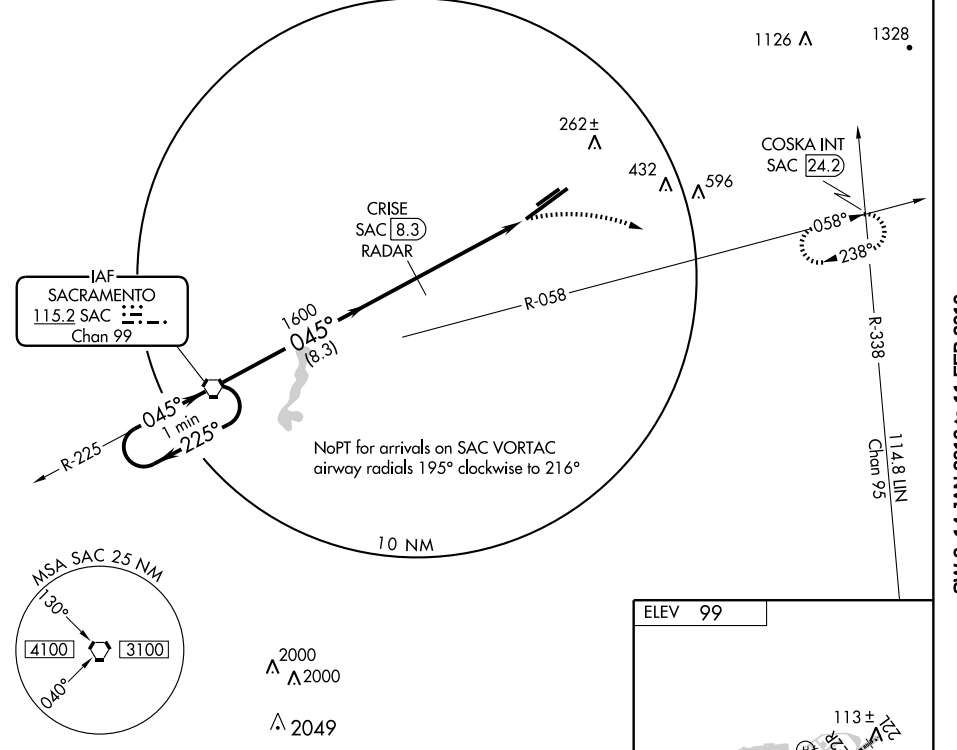
Diagram illustrating a non-parallel descent path. The diagram shows a horizontal line representing the 3500 MSL altitude. A vertical dashed line marks the start of the descent. A solid line descends at 3.22° (TCH 56) to a point marked with an 'X' at 2000 MSL. A second solid line descends at 0.44° to the 3500 MSL line. A dotted line shows a steeper descent path. Text indicates "Remain within 10 NM" and "VGSI and descent angles not coincident."

Circling not authorized north of Rwy 4L-22R.

MISSED APPROACH: Climbing right turn to 3000 via heading 090° and SAC R-058 to COSKA Int/SAC 24.2 DME and hold.

ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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RADAR or DME REQUIRED



CATEGORY	A	B	C	D
S-4R	560-1 481 (500-1)		560-1¼ 481 (500-1¼)	560-1½ 481 (500-1½)
CIRCLING	560-1 461 (500-1)		560-1½ 461 (500-1½)	660-2 561 (600-2)

MRL Rwy 4L-22R
HIRL Rwy 4R-22L

FAF to MAP 4.5 NM

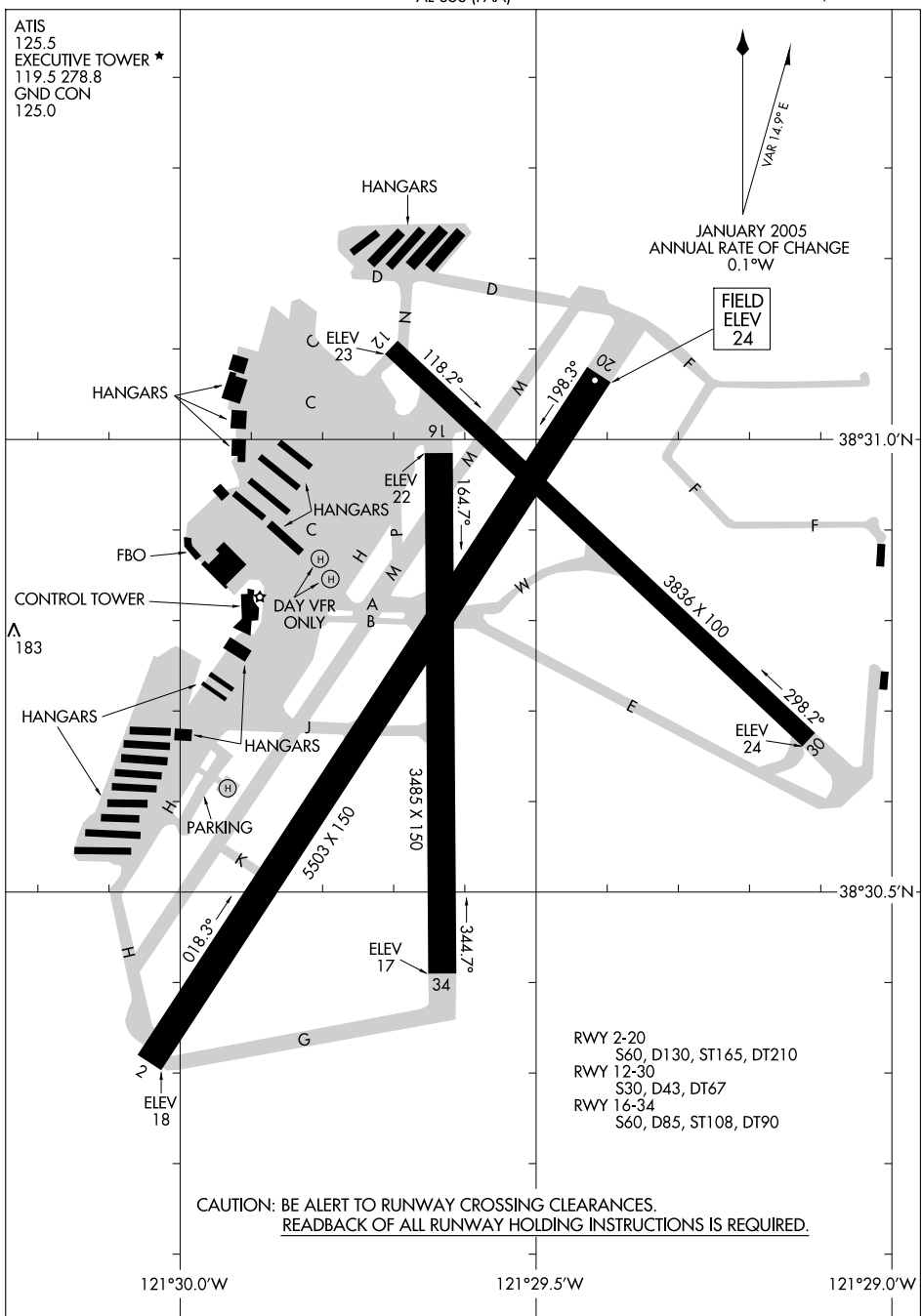
Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30

SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-358 (FAA)

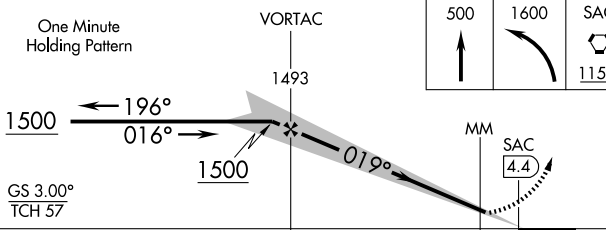
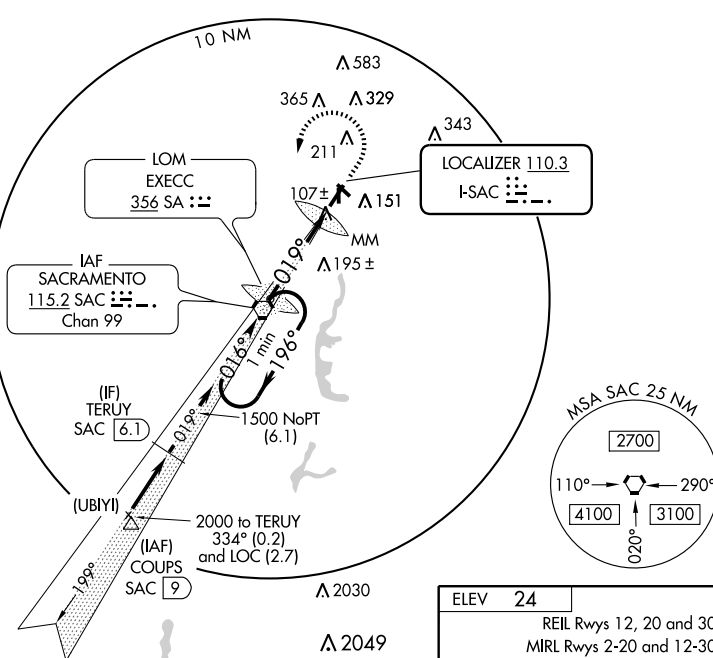
SACRAMENTO EXECUTIVE (SAC)
SACRAMENTO, CALIFORNIA



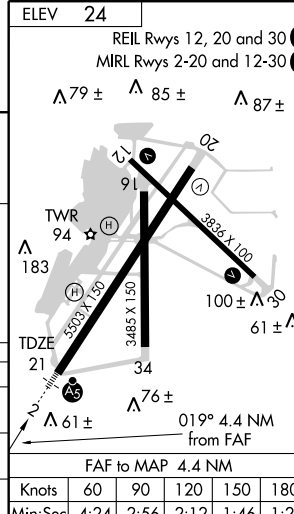
ILS or LOC RWY 2
SACRAMENTO EXECUTIVE (SAC)

MALSR 	MISSED APPROACH: Climb to 500, then climbing left turn to 1600 direct SAC VORTAC and hold.
--	--

GND CON	UNICOM
125.0	122.95



CATEGORY	A	B	C	D
S-ILS 2	221- ³ / ₄ 200 (200- ³ / ₄)			
S-LOC 2	360- ³ / ₄ 339 (400- ³ / ₄)			
CIRCLING	500-1 174 (500-1)	520-1 194 (500-1)	520-1½ 194 (500-1½)	580-2 554 (600-2)



WAAS CH 62810 W02A	APP CRS 019°	Rwy Idg TDZE Apt Elev	5503 21 24
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RNAV (GPS) RWY 2
SACRAMENTO EXECUTIVE (SAC)

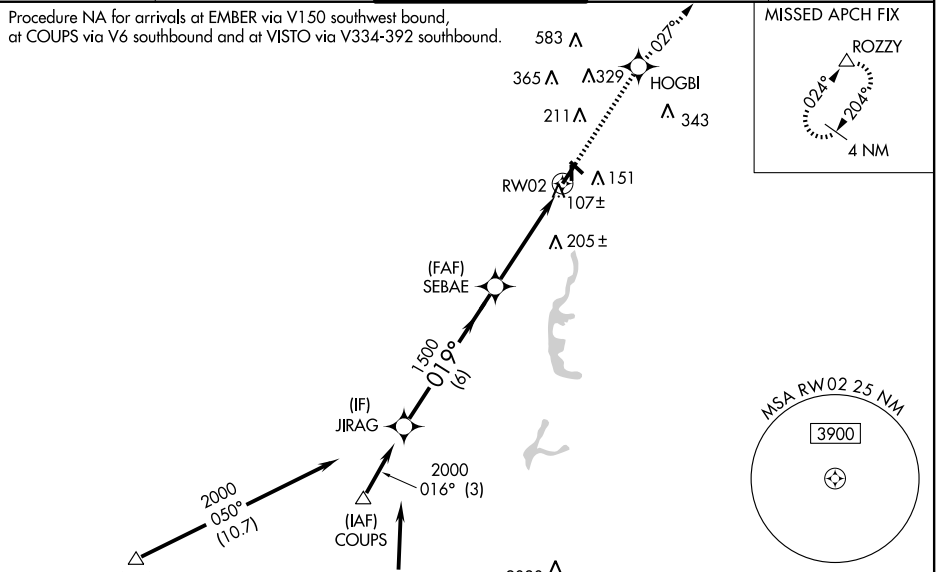
▼ For inoperative MALS, when using local altimeter setting, increase LNAV Cats A, B visibility to 1 mile and Cat D to 1½. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). Inoperative table does not apply to LPV. DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all DA/MDA 40 feet. VDP and Baro-VNAV NA when using Sacramento Intl altimeter setting.

MALS

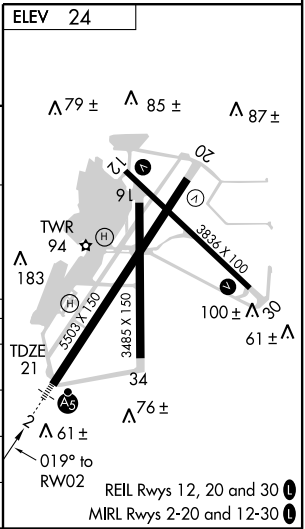
MISSED APPROACH: Climb to 3000 direct HOGBI and via 027° track to ROZZY and hold.

ATIS 125.5	NORCAL APP CON 125.25 257.9 (SE-NW)	EXEC TOWER ★ 119.5 (CTAF) 0 278.8	GND CON 125.0	UNICOM 122.95
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Procedure NA for arrivals at EMBER via V150 southwest bound, at COUPS via V6 southbound and at VISTO via V334-392 southbound.



Procedure Turn NA	JIRAG	SEBAE	HOGBI	027° track	ROZZY
2000	1500	3000			
GS 3.00° TCH 57					
	6 NM	3.2 NM	1.2 NM		
CATEGORY	A	B	C	D	
LPV DA		221-¾	200 (200-¾)		
LNAV/DA VNAV		373-¾	352 (400-¾)		
LNAV MDA	440-¾	419 (500-¾)		440-1 419 (500-1)	
CIRCLING	500-1 476 (500-1)	520-1 496 (500-1)	520-1½ 496 (500-1½)	580-2 556 (600-2)	



VORTAC SAC	APP CRS	Rwy Idg	5503
115.2	016°	TDZE	21
Chan 99		Apt Elev	24

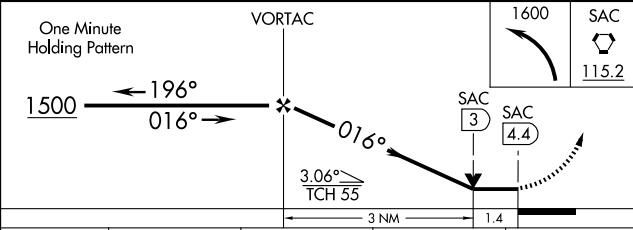
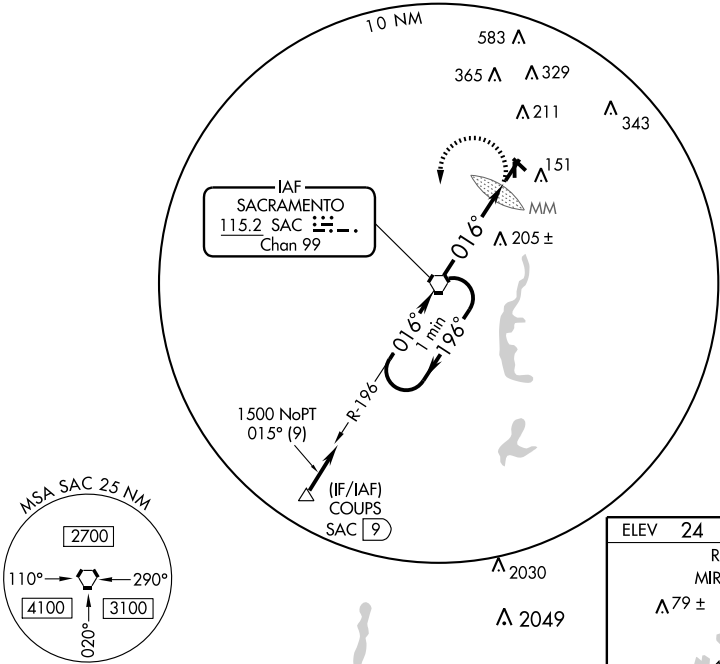
VOR RWY 2
SACRAMENTO EXECUTIVE (SAC)

- ▼ For inoperative MALSR, increase S-2 Cats A, B visibility to 1 mile.
Visibility reduction by helicopters NA.
- ▲ When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDA 40 feet and S-2 Cats C, D visibilities ¼ mile. VDP NA when using Sacramento Intl altimeter setting.

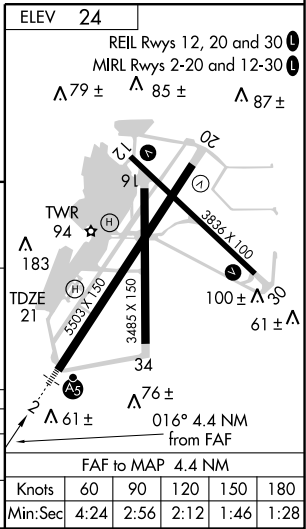


MISSED APPROACH: Climbing left turn to 1600 direct SAC VORTAC and hold.

ATIS	NORCAL APP CON	EXEC TOWER ★	GND CON	UNICOM
125.5	125.25 257.9 (SE-NW)	119.5 (CTAF) 278.8	125.0	122.95

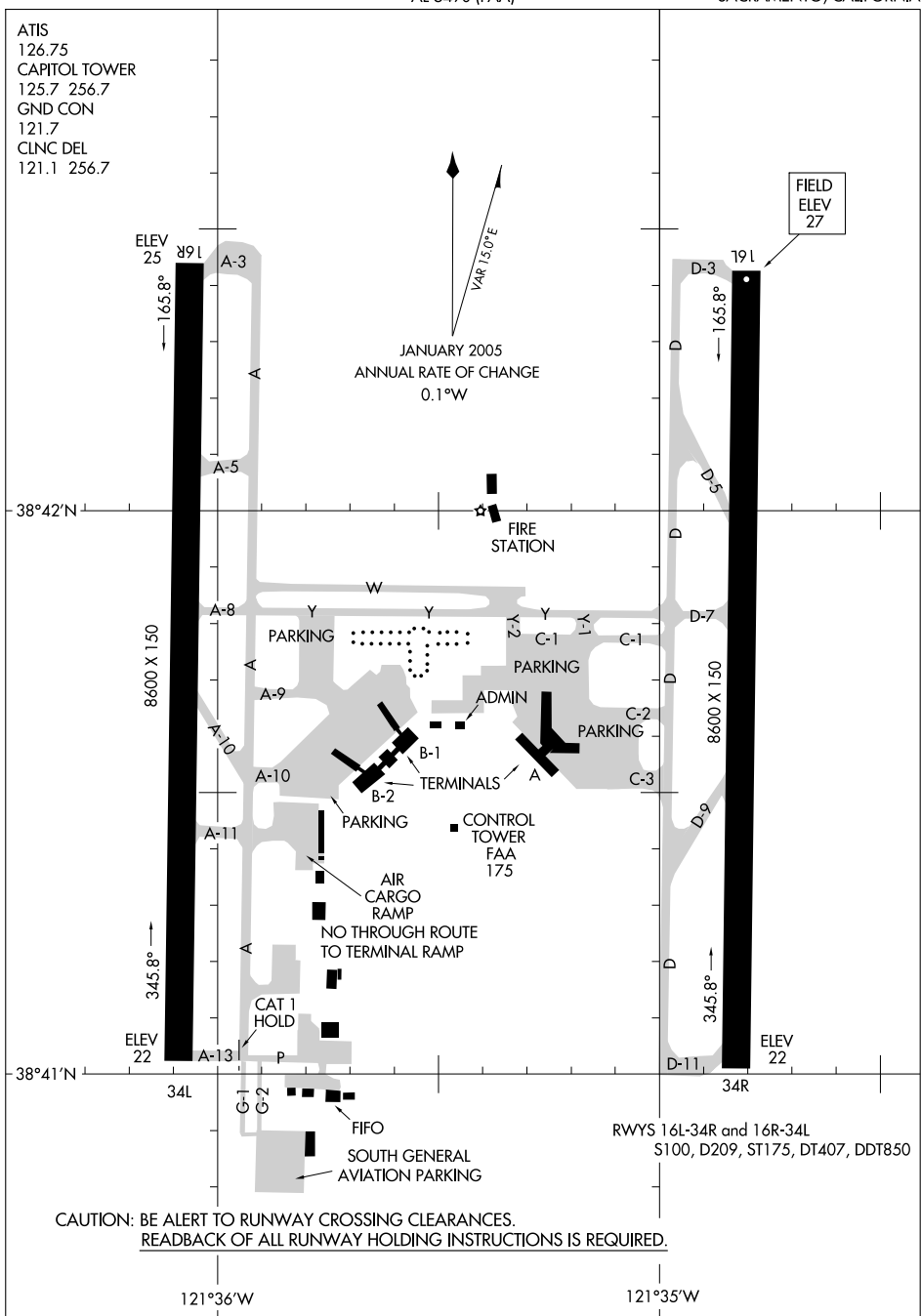


CATEGORY	A	B	C	D
S-2	520-3/4	499 (500-3/4)		520-1 499 (500-1)
CIRCLING	520-1	496 (500-1)	520-1 1/2 496 (500-1 1/2)	580-2 556 (600-2)



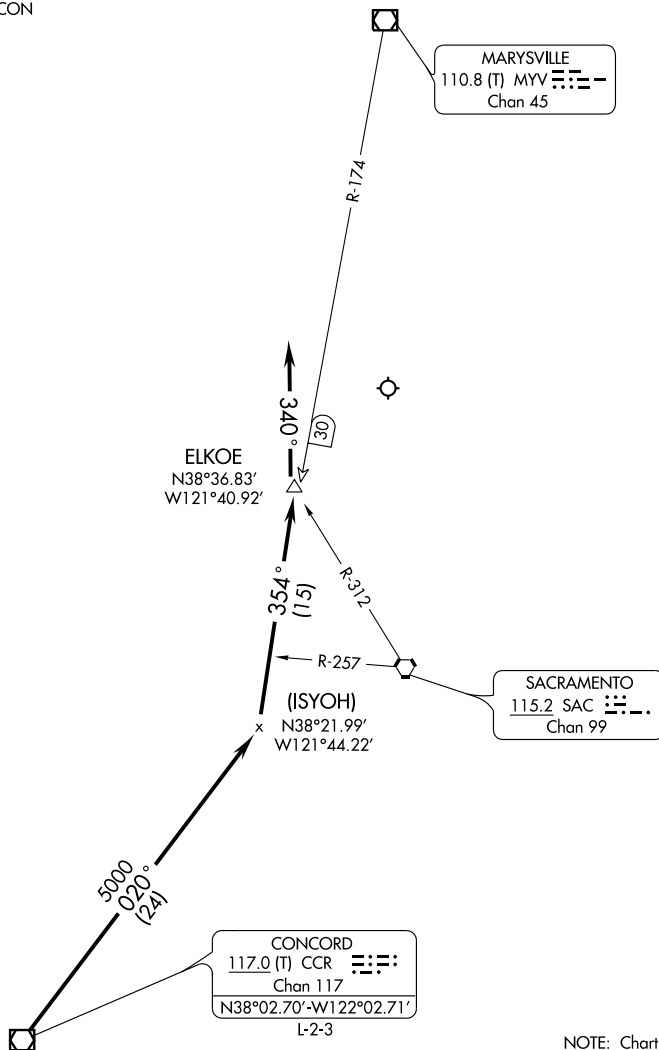
AIRPORT DIAGRAM

AL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA

CONCORD ONE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIANORCAL APP CON
125.25 257.9

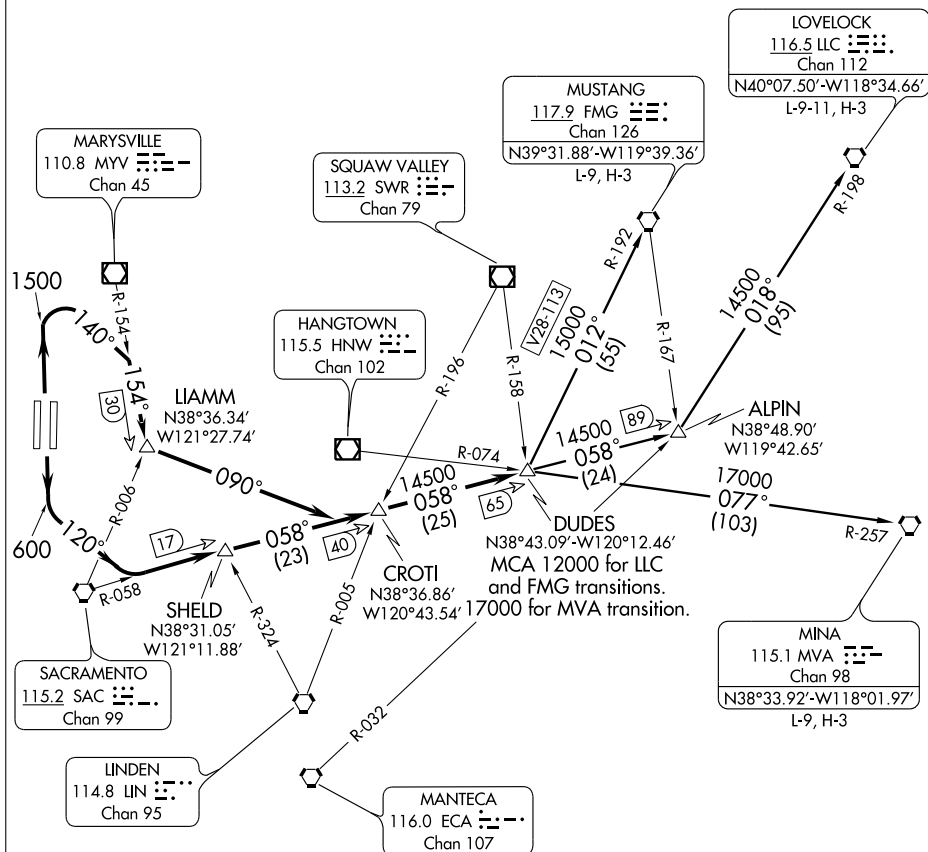
From over CCR VOR/DME via CCR R-020 and the MYV R-174 to ELKOE INT then via heading 340° for radar vector to final approach course. Expect descent below 10,000 after passing the SAC R-257.

DUDES NINE DEPARTURE

SL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA

CLNC DEL
121.1 256.7
NORCAL DEP CON
(S-SW) 125.25 257.9
(W-N) 134.8 270.25
(NE) 125.4 259.1
(E-SE) 127.4 317.5



NOTE: RADAR Required.

NOTE: DME Required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Maintain runway heading until 600', then turn left to a 120° heading to intercept and proceed via the SAC R-058 to DUDES INT, then via (transition) or (assigned route). Expect further clearance to filed altitude after CROTI INT.

TAKE-OFF RUNWAYS 34L/R: Maintain runway heading until 1500', then turn right to a 140° heading to intercept and proceed via the MYV R-154 to LIAMM INT, then turn left to a 090° heading to intercept and proceed via the SAC R-058 to DUDES INT, then via (transition) or (assigned route). Expect further clearance to filed altitude after CROTI INT.

LOST COMMUNICATIONS: Take-off runways 34L/R: Maintain runway heading until 1500', then turn right heading 140° to intercept and proceed via the MYV R-154 to intercept and proceed via the SAC R-058 to DUDES INT. Then resume own navigation.

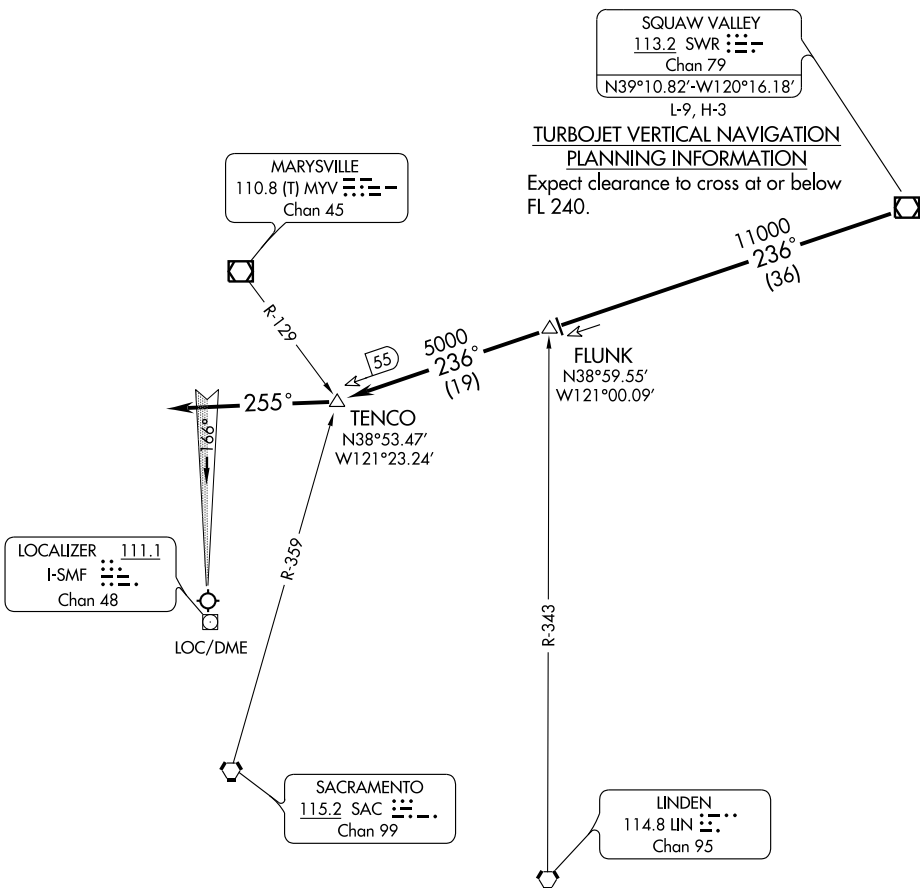
LOVELOCK TRANSITION (DUDES9.LLC): From over DUDES INT via the SAC R-058 and the LLC R-198 to LLC VORTAC.

MINA TRANSITION (DUDES9.MVA): From over DUDES INT via the MVA R-257 to MVA VORTAC.

MUSTANG TRANSITION (DUDES9.FMG): From over DUDES INT via the FMG R-192 to FMG VORTAC.

FLUNK THREE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIANORCAL APP CON
120.45 353.7

NOTE: Chart not to scale.

From over SWR VOR/DME via SWR R-236 to TENCO INT. Depart TENCO INT heading 255° for vector to final approach course. Expect descent below 10000' passing FLUNK INT.



NOTE: RADAR required.

NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Maintain runway heading until 600', then turn left heading 120° to intercept and proceed via the SAC R-090 to FROGO INT. Then via (transition) or (assigned route). Expect further clearance to filed altitude after THORN INT.

TAKE-OFF RUNWAYS 34L/R: Maintain runway heading until 1500', then turn right heading 140° to intercept the MYV R-154. Intercept and proceed via the MYV R-154 to LIAMM INT, then turn left heading 120° to intercept and proceed via the SAC R-090 to FROGO INT. Then via (transition) or (assigned route). Expect further clearance to filed altitude after LIAMM INT.

LOST COMMUNICATIONS: Take-off Runways 34L/R: Maintain runway heading until 1500' then turn right heading 140° to intercept the MYV R-154. Intercept and proceed via the MYV R-154 to intercept the SAC R-090 to FROGO INT. Then resume own navigation.

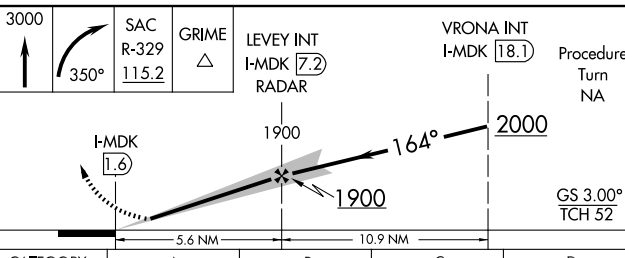
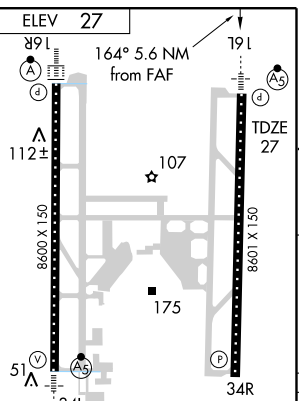
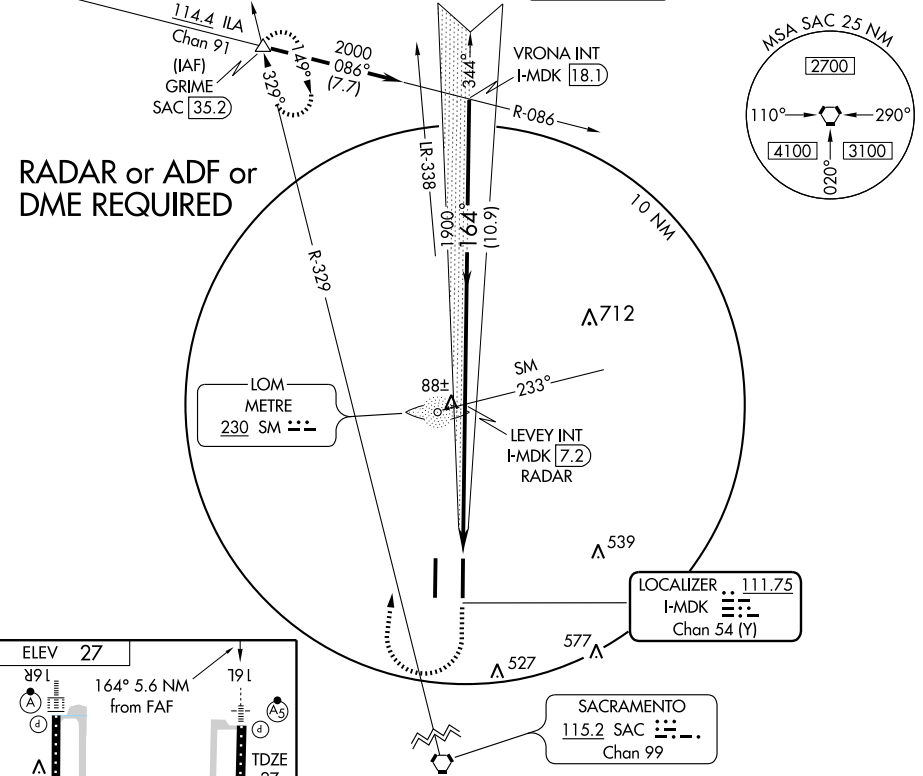
FRIANT TRANSITION (FROGO6.FRA): From over FROGO INT via FRA R-306 to FRA VORTAC.

LOC/DME I-MDK	APP CRS	Rwy Idg	8601
111.75	164°	TDZE	27
Chan 54 (Y)		Apt Elev	27

For inoperative MALSR, increase S-LOC Cat D visibility to 1 mile.
Circling not authorized west of Rwy 16L-34R.

MISSED APPROACH: Climb to 3000, then right turn via heading 350° and SAC R-329 to GRIME INT/SAC 35.2 DME and hold.

ATIS 126.75	NORCAL APP CON (S-SW) 125.25 257.9 (NE) 125.4 259.1 (W-N) 134.8 270.25 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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TDZ/CL Rwy 16L and 16R HIRL Rwy 16R-34L and 16L-34R					
FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52
CATEGORY	A	B	C	D	
S-ILS 16L	227-½ 200 (200-½)				
S-LOC 16L	340-½ 313 (400-½)				340-¾ 313 (400-¾)
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

LOC/DME I-SMF 111.1 Chan 48	APP CRS 166°	Rwy Idg TDZE Apt Elev 8600 25 27
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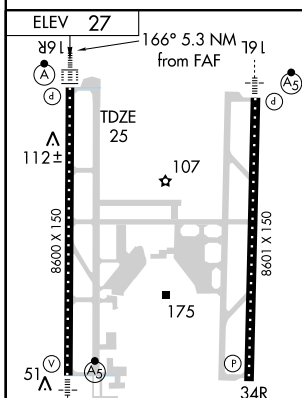
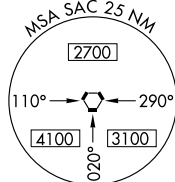
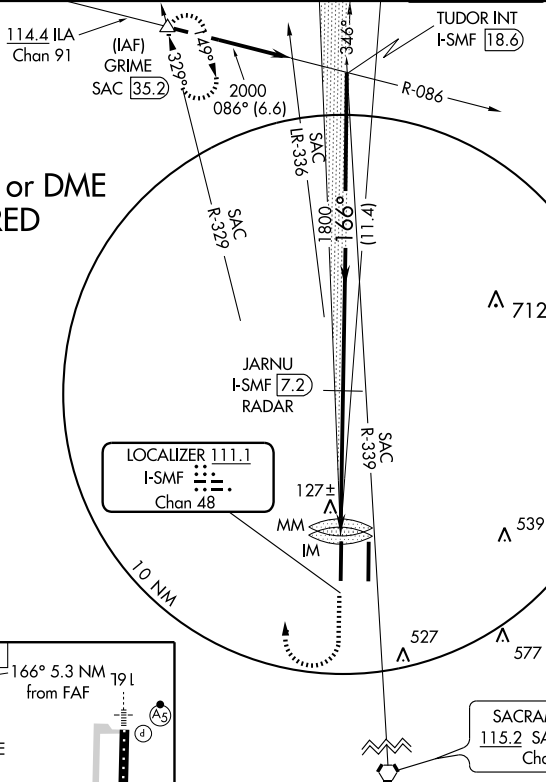
ILS or LOC RWY 16R

SACRAMENTO INTL (SMF)*

Circling not authorized east of Rwy 16R-34L.	ALSF-2 	MISSED APPROACH: Climb to 500, then climbing right turn to 2000 via heading 350° and SAC R-329 to GRIME Int/SAC 35.2 DME and hold.
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ATIS 126.75	NORCAL APP CON (W-N) 134.8 270.25 (NE) 125.4 259.1 (S-SW) 125.25 257.9 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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RADAR or DME REQUIRED



	TUDOR INT I-SMF 18.6	JARNU I-SMF 7.2 RADAR	500	2000	SAC R-329 115.2	GRIME
	Procedure Turn NA	1800	1800	1800	I-SMF 1.8	△
	GS 3.00° TCH 57	11.4 NM	4.9 NM	0.3 NM	0.1 NM	
CATEGORY	A	B	C	D		
S-ILS 16R	225/18 200 (200-½)					
S-LOC 16R	400/24 375 (400-½)				400/40 375 (400-¾)	
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)		

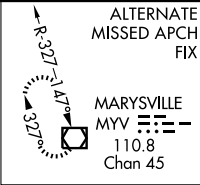
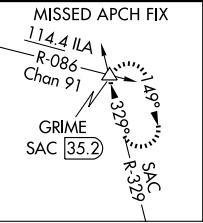
LOC/DME I-HUX	APP CRS	Rwy Idg	8600
111.1	344°	TDZE	24
Chan 48		Apt Elev	27

V VDP NA with Sacramento Executive altimeter setting.
A For inoperative MALSR increase S-LOC 34L Cat. D visibility to RVR 5000.
Circling NA east of Rwy 16R/34L.
If local altimeter setting not received, use Sacramento Executive altimeter setting and increase all DA/MDAs 40 feet.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

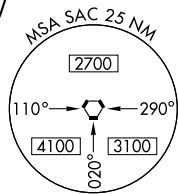
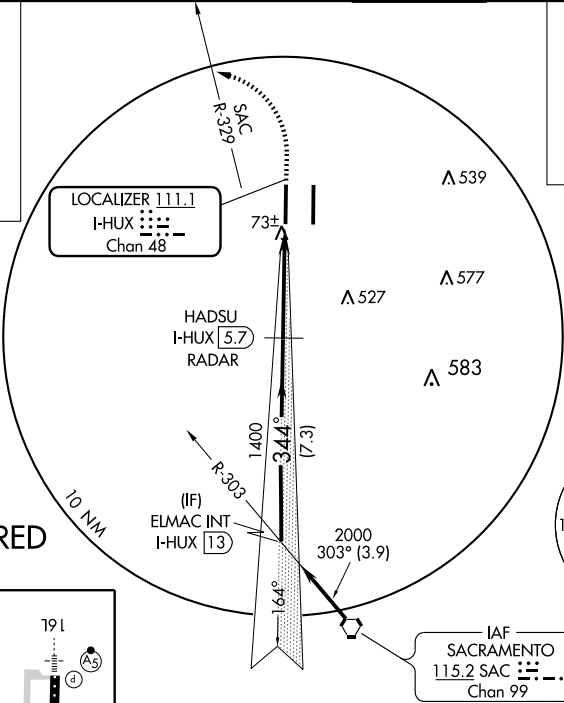
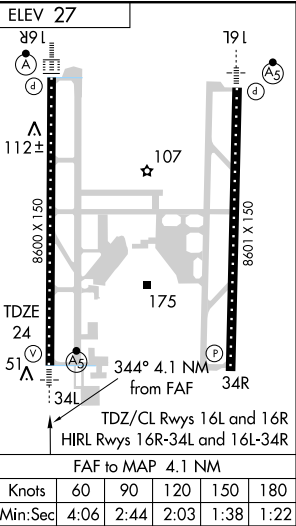
MALSR

MISSED APPROACH: Climb to 500, then
descending left turn to 2000 via heading 320°
and SAC R-329 to GRIME INT/SAC 35.2
DME and hold.

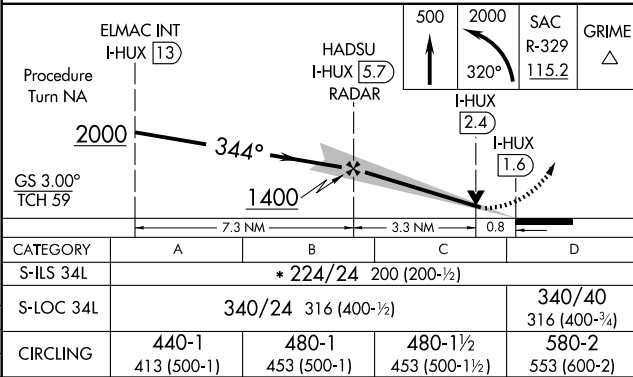
ATIS	NORCAL APP CON		CAPITAL TOWER	GND CON	CLNC DEL
126.75	(W-N) 134.8	270.25	(NE) 125.4	259.1	
	(S-SW) 125.25	257.9	(E-SE) 127.4	317.5	



**RADAR or
DME REQUIRED**



Procedure NA for arrivals on SAC VORTAC airway radials 257 CW 329.



ATIS

126.75

NORCAL APP CON

(W-N) 134.8 270.25

(S-SW) 125.25 257.9

(NE) 125.4 259.1

(E-SE) 127.4 317.5

CAPITAL TOWER

125.7 256.7

GND CON

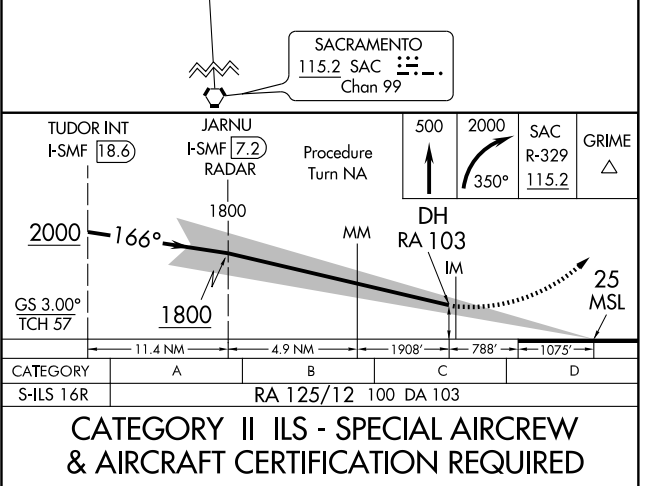
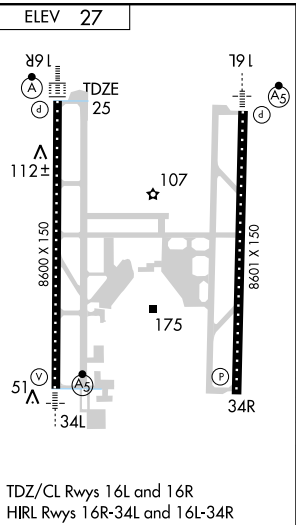
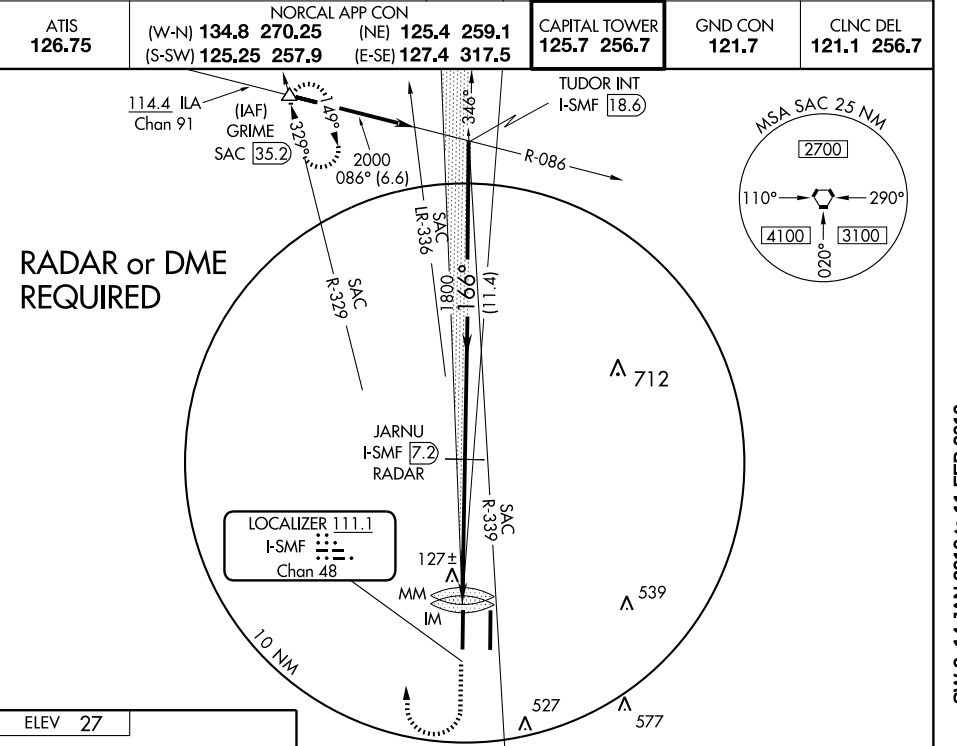
121.7

CLNC DEL

121.1 256.7

ALSF-2

MISSED APPROACH: Climb to 500, then climbing right turn to 2000 via heading 350° and SAC R-329 to GRIME Int/SAC 35.2 DME and hold.

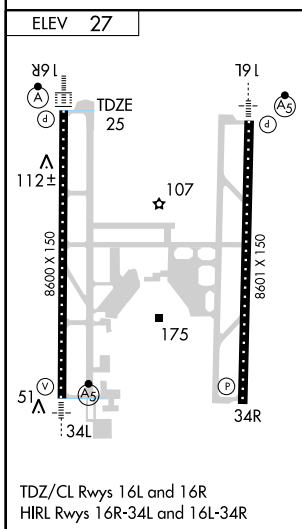
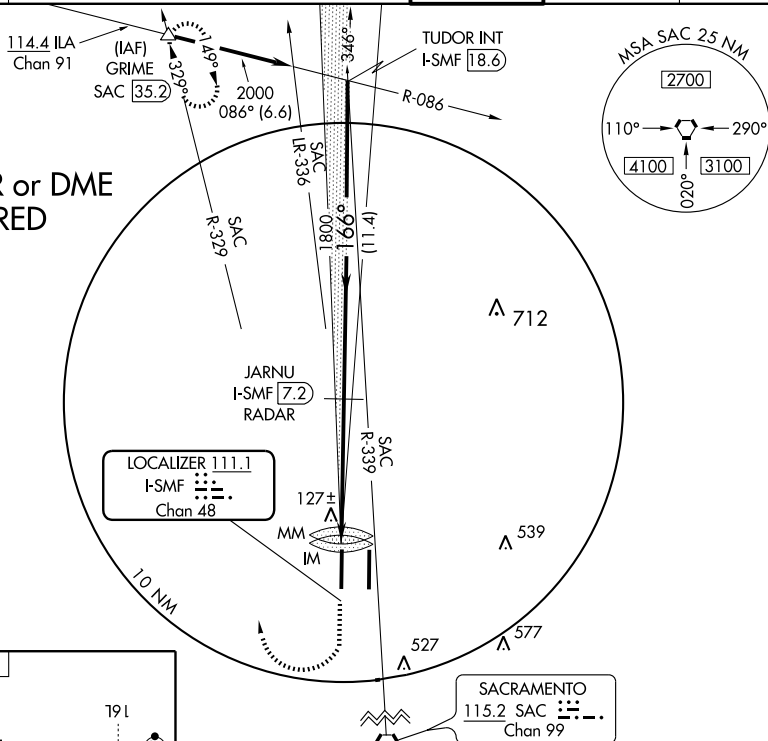


LOC/DME I-SMF 111.1 Chan 48	APP CRS 166°	Rwy Idg TDZE Apt Elev 8600 25 27
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ILS RWY 16R (CAT III)

SACRAMENTO INTL (SMF)

		ALSF-2 		MISSED APPROACH: Climb to 500, then climbing right turn to 2000 via heading 350° and SAC R-329 to GRIME Int/SAC 35.2 DME and hold.			
ATIS 126.75	NORCAL APP CON (W-N) 134.8 270.25 (NE) 125.4 259.1 (S-SW) 125.25 257.9 (E-SE) 127.4 317.5				CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7

RADAR or DME
REQUIRED

TUDOR INT I-SMF 18.6		JARNU I-SMF 7.2 RADAR	Procedure Turn NA	500 ↑	2000 ↷ 350°	SAC R-329 115.2	GRIME △
2000		1800	MM 224	IM 123	25 MSL		
GS 3.00° TCH 57		11.4 NM	4.9 NM	1920'	776'	1075'	
CATEGORY	A	B	C	D			
S-ILS 16R	CAT IIIa		RVR 07				
S-ILS 16R	CAT IIIb		RVR 06				
S-ILS 16R	CAT IIIc		NA				

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

RNAV (GPS) RWY 16L

SACRAMENTO INTL (SMF)

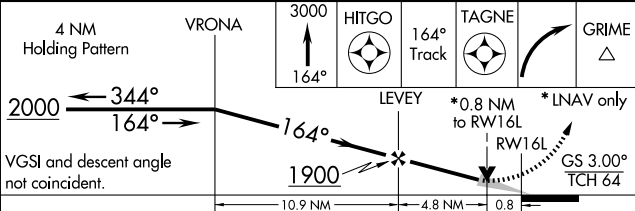
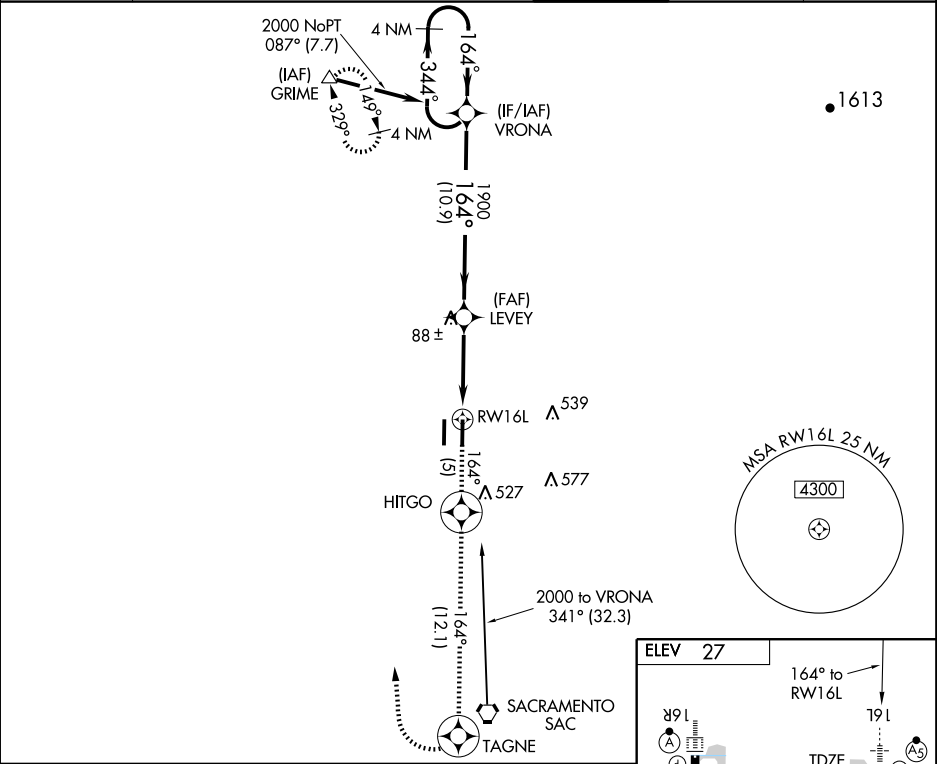
APP CRS	Rwy Idg	8601
164°	TDZE	27
	Apt Elev	27

▼ DME/DME RNP- 0.3 NA. Inoperative table does not apply to LNAV Cat. D.
▲ For inoperative MALSR, increase LNAV Cat D visibility to 1¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Circling NA west of Rwy 16L-34R.

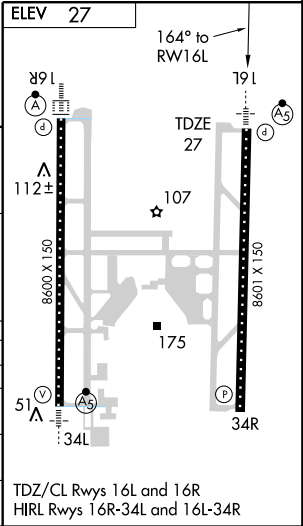
MALSR

MISSED APPROACH: Climb to 3000 via 164° course to HITGO WP, then via track 164° to TAGNE WP, then right turn direct GRIME WP and hold.

ATIS	NORCAL APP CON		CAPITAL TOWER	GND CON	CLNC DEL
126.75	(W-N) 134.8 270.25	(NE) 125.4 259.1	125.7 256.7	121.7	121.1 256.7
	(S-SW) 125.25 257.9	(E-SE) 127.4 317.5			



CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	418-¾ 391 (400-¾)			
LNAV MDA	380-½ 353 (400-½)			380-1 353 (400-1)
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)



WAAS CH 86602 W34A	APP CRS 344°	Rwy Idg TDZE Apt Elev	8600 24 27
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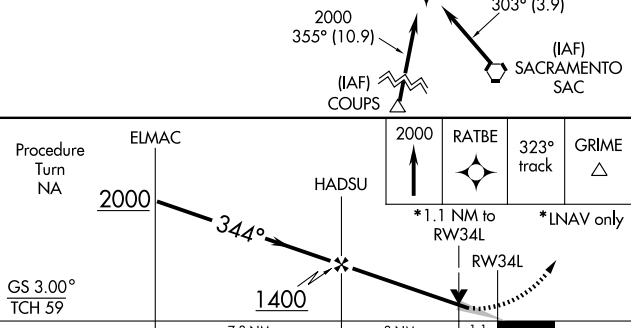
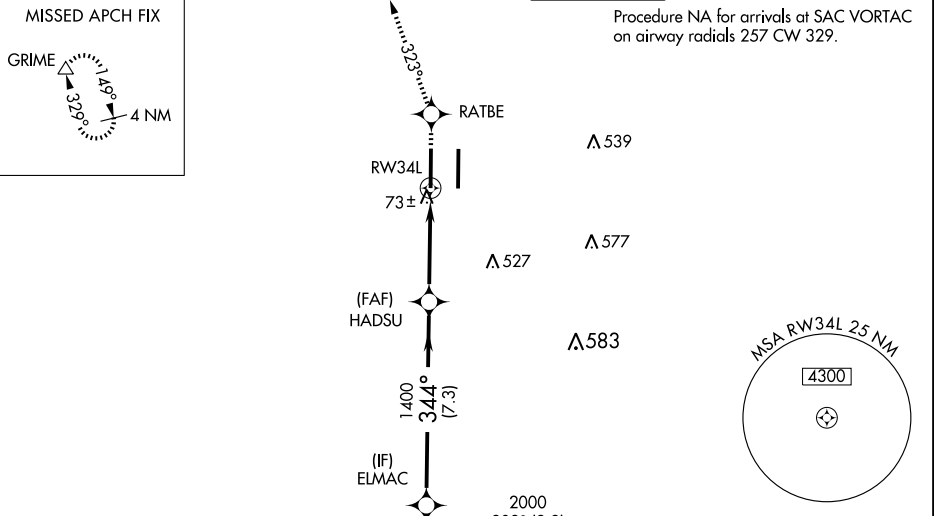
RNAV (GPS) RWY 34L
SACRAMENTO INTL (SMF[®])

▼ DME/DME RNP- 0.3 NA. Circling NA east of Rwy 16R-34L.
▲ For inoperative MALSR, increase LNAV/VNAV Cat. D visibility to RVR 5000 and LNAV Cat. D visibility to RVR 6000.
For inoperative MALSR, increase LPV all Cats. visibility to RVR 4000.
Baro-VNAV NA when using Sacramento Executive altimeter setting.
If local altimeter setting not received, use Sacramento Executive altimeter setting and increase all DAs/MDAs 40 feet.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (119°F).
VDP NA with Sacramento Executive altimeter setting.

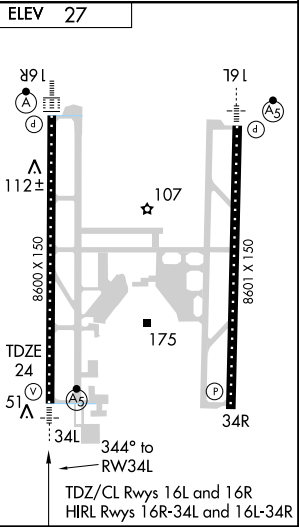


MISSED APPROACH: Climb to 2000 direct RATBE and via 323° track to GRIME and hold.

ATIS 126.75	(W-N) 134.8 270.25 (S-SW) 125.25 257.9	NORCAL APP CON (NE) 125.4 259.1 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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CATEGORY	A	B	C	D
LPV DA	274/24		250 (300-½)	
LNAV/VNAV DA	336/24		312 (400-½)	
LNAV MDA	420/24		396 (400-½)	
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)



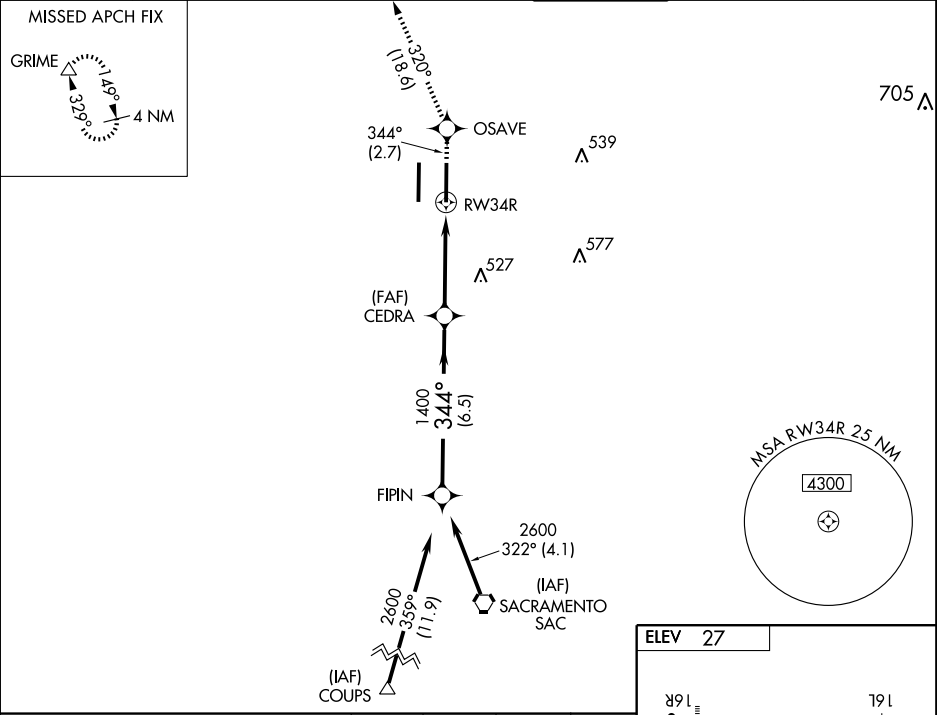
RNAV (GPS) RWY 34R
SACRAMENTO INTL (SMF)

APP CRS	Rwy Idg	8601
344°	TDZE	24
	Apt Elev	27

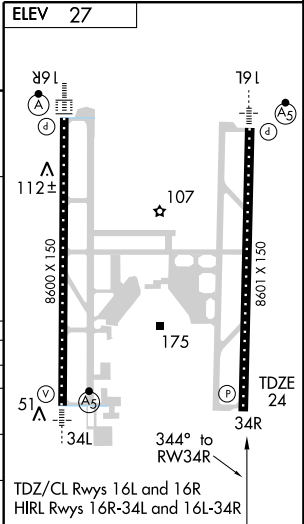
For uncompensated Baro/VNAV systems, Baro-VNAV NA below -15°C (5°F) or above 48°C (118°F).
Circling not authorized west of Rwy 16L-34R.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2000 via 344° course to OSAVE WP, then left turn via 320° track to GRIME WP and hold.

ATIS	NORCAL APP CON			CAPITAL TOWER	GND CON	CLNC DEL
126.75	(W-N) 134.8	270.25	(NE) 125.4	125.7	121.7	121.1
	(S-SW) 125.25	257.9	(E-SE) 127.4	256.7		256.7



Procedure Turn NA	FIPI	CEDRA	OSAVE	GRIME
2600	344°	320°	320°	320°
GS 3.00° TCH 64	1400	2000	2000	2000
	6.5 NM	2.1 NM	2 NM	
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	376-1¼ 352 (400-1¼)			
LNAV MDA	720-1 696 (700-1)	720-2 696 (700-2)	720-2¼ 696 (700-2¼)	
CIRCLING	720-1 693 (700-1)	720-2 693 (700-2)	720-2¼ 693 (700-2¼)	



TUDOR ONE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIAATIS 126.75
NORCAL APP CON
120.45 353.7

KLAMATH FALLS
115.9 UMT
Chan 106
N42°09.19'-W121°43.65'
L-2, H-3

LAKEVIEW
112.0 LKV
Chan 57
N42°29.57'-W120°30.43'
L-11, H-3

(OWLEK)
N40°26.47'
W121°43.17'

(OXIHU)
N41°30.24'
W121°06.12'

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

EWOKS
N40°21.48'
W121°42.75'

LOMBO
N39°57.50'
W121°40.69'

BOWLS
N39°30.55'-W121°38.40'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect to cross at 12000'.

(PUJWO)
N39°22.26'
W121°42.55'

WILLIAMS
114.4 IIA
Chan 91
N39°04.27'-W122°01.63'
L-2-3

PIECH
N39°14.57'
W121°37.06'

TUDOR
N38°59.19'
W121°35.79'

METRE
230 SM
N38°47.70'
W121°35.96'

LOCALIZER 111.1
I-SMF
Chan 48

SACRAMENTO
115.2 SAC
Chan 99

NOTE: DME required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

KLAMATH FALLS TRANSITION(LMT.TUDOR1): From over LMT VORTAC via LMT R-163 and SAC R-339 to TUDOR INT. Thence

LAKEVIEW TRANSITION (LKV.TUDOR1): From over LKV VORTAC via LKV R-185 and SAC R-339 to TUDOR INT. Thence

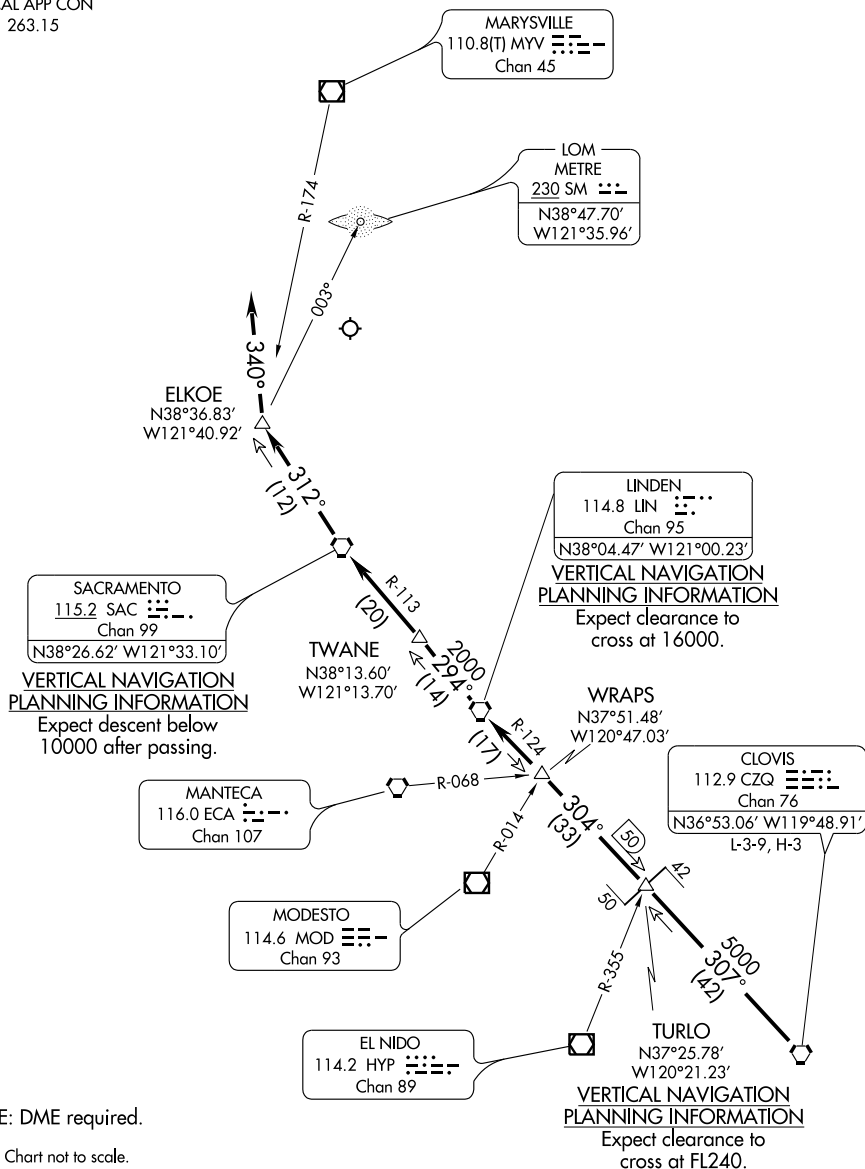
RED BLUFF TRANSITION (RBL.TUDOR1): From over RBL VORTAC via RBL R-133 and SAC R-339 to TUDOR INT. Thence

WILLIAMS TRANSITION (ILA.TUDOR1): From over ILA VORTAC via ILA R-086 to TUDOR INT. Thence

. . . .From over TUDOR INT via I-SMF RWY 16R localizer course to SM LOM.
Expect ILS RWY 16R approach.

WRAPS FIVE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIANORCAL APP CON
124.8 263.15

SW-2, 14 JAN 2010 to 11 FEB 2010

From over CZQ VORTAC via CZQ R-307 to TURLO INT, then via LIN R-124 to LIN VORTAC, then via LIN R-294 and SAC R-113 to SAC VORTAC, then via SAC R-312 to ELKOE INT, then via heading 340° for radar vector to final approach course.

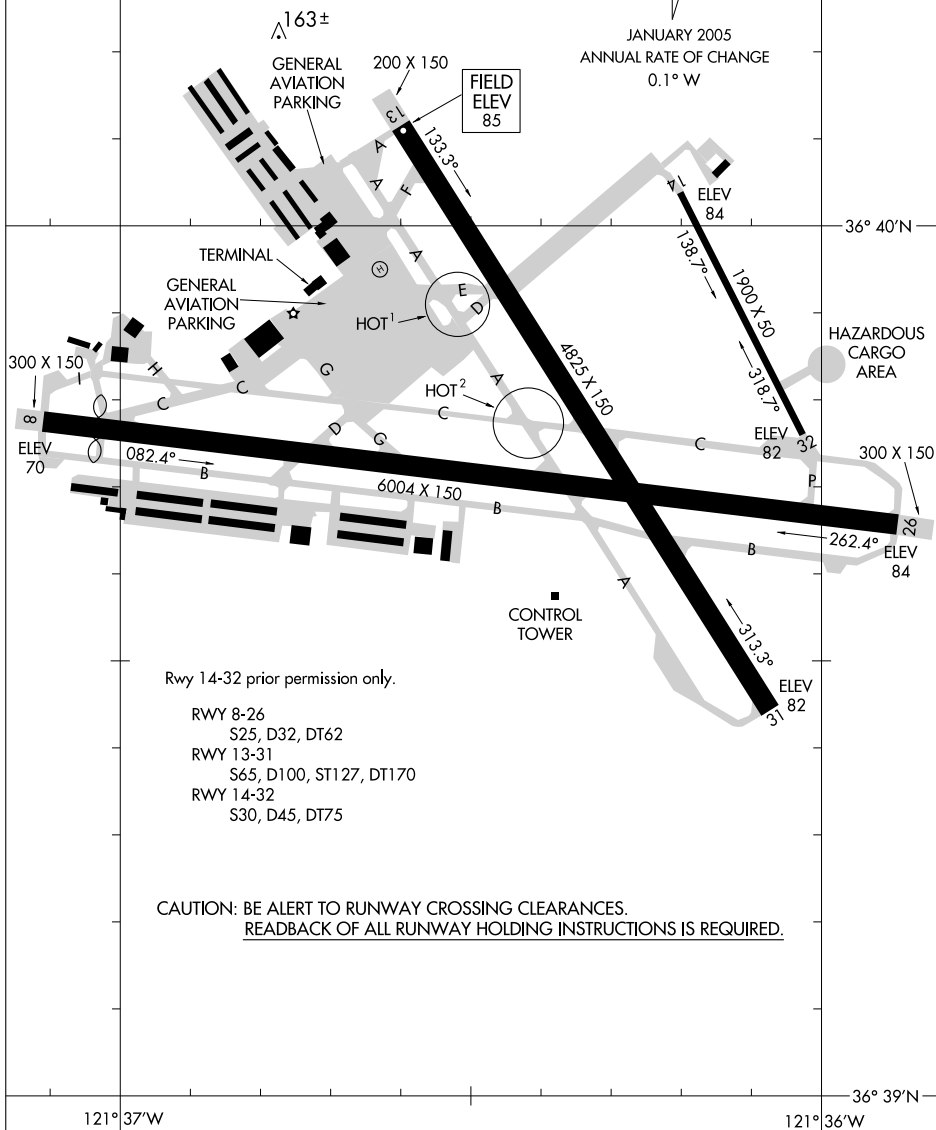
LOST COMMUNICATIONS: After passing ELKOE INT proceed direct SM LOM.

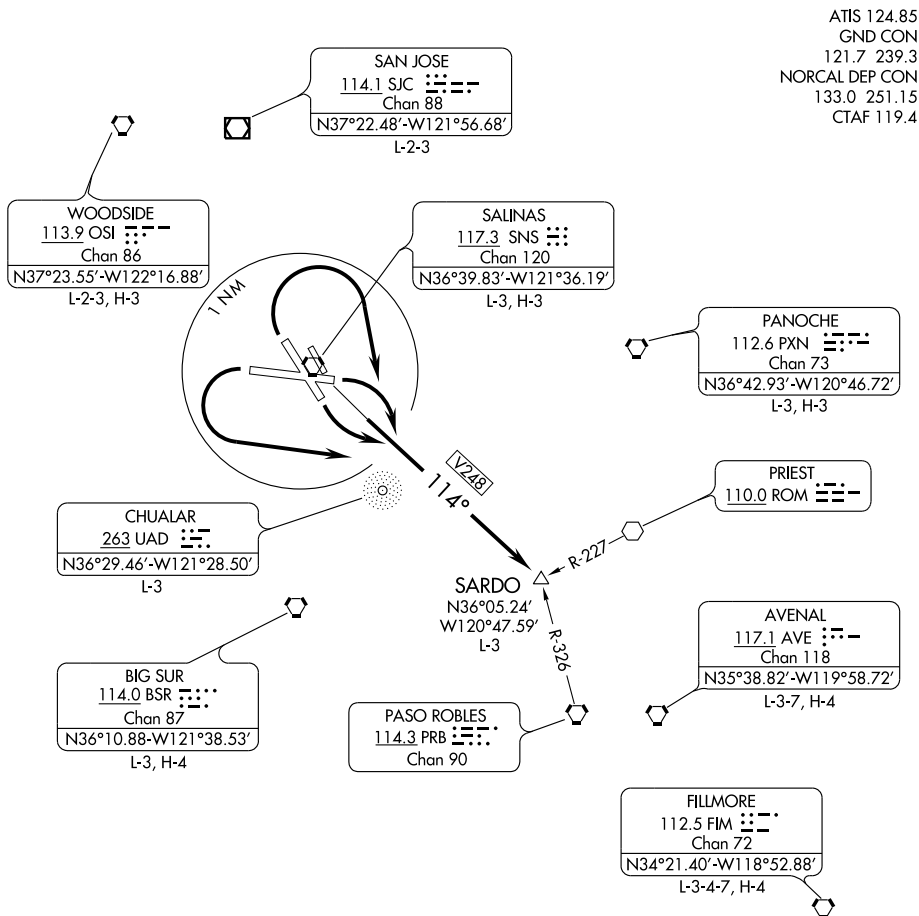
AIRPORT DIAGRAM

AL-363 (FAA)

SALINAS MUNI (SNS)
SALINAS, CALIFORNIA

ATIS
124.85
SALINAS TOWER★
119.4 239.3
GND CON
121.7





NOTE: Rwy 8, 13 departures require a minimum climb of 360' per NM to 6000'.

Rwy 26, 31 departures: Cats A and B require minimum climb of 360' per NM to 6000'.

Cats C and D require minimum climb of 550' per NM to 6000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

All aircraft climb outbound on the SNS R-114 (V248) to SARDO INT, then proceed on assigned route. Expect clearance to filed altitude five minutes after departure.

TAKE-OFF RUNWAYS 8 and 31: Turn right within 1 mile to intercept and climb via SNS R-114.

TAKE-OFF RUNWAYS 13 and 26: Turn left within 1 mile to intercept and climb via SNS R-114.

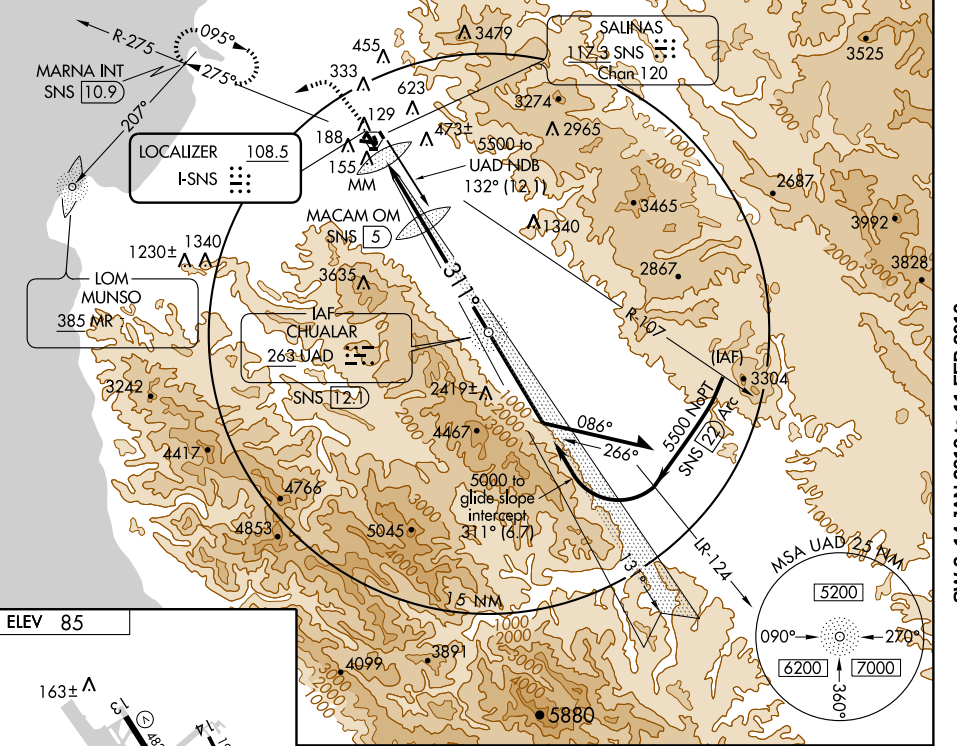
Circling requires descent on glide slope to CMDA.

MALSR

MISSED APPROACH: Climb to 800 then climbing left turn to 3000 via SNS R-275 to MARN INT/10.9 DME and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER* 119.4 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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ADF or DME REQUIRED



ELEV 85

HIRL Rwy 13-31

MIRL Rwy 8-26

REIL Rwy 13

FAF to MAP 4.6 NM

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

800

3000

SNS R-275

MARN INT

MACAM OM SNS 5

SNS 1618

SNS 12.1

3987

5500

5000

GS 3.00°

TCH 59

CATEGORY	A	B	C	D
S-ILS 31	282/24 200 (200-1/2)			
CIRCLING	560-1 475 (500-1)	580-1 495 (500-1)	580-1½ 495 (500-1½)	780-2¼ 695 (700-2¼)

▼

For inoperative MALS R increase S-LOC 31 Cat D visibility to RVR 5000.

▲

Simultaneous reception of I-SNS and SNS DME required.

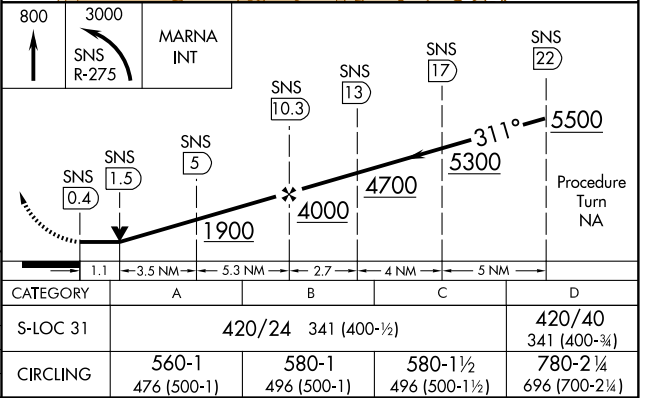
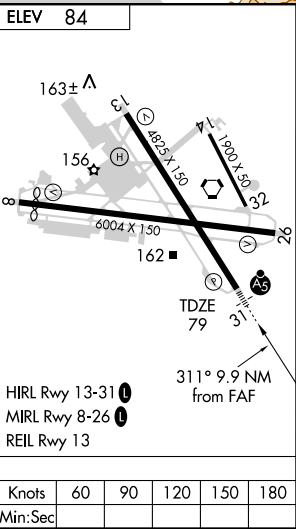
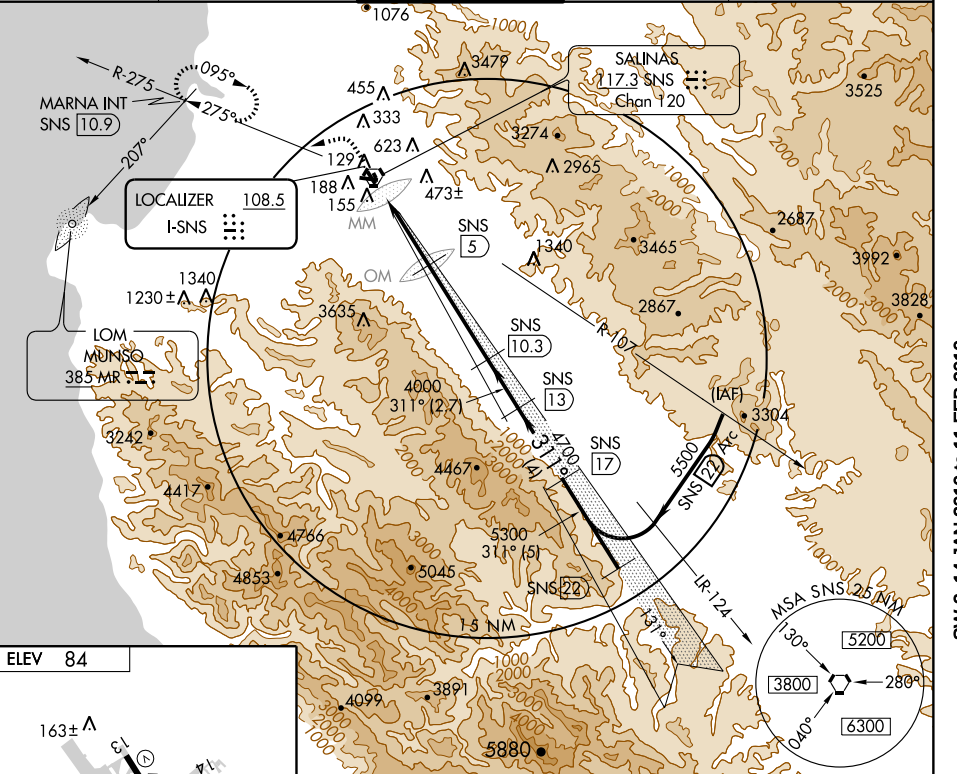
MALS R

AS

MISSED APPROACH:

Climb to 800 then climbing left turn to 3000 via SNS R-275 to MARNA INT/10.9 DME and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER★ 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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APP CRS	Rwy Idg	4825
132°	TDZE	85
	Apt Elev	85

RNAV (GPS) RWY 13

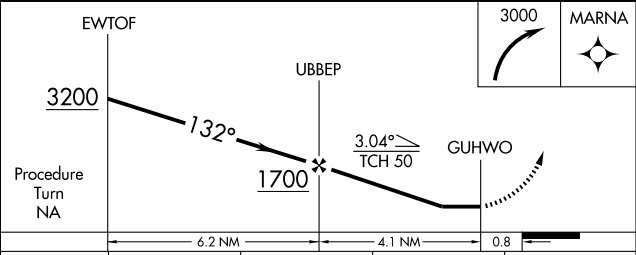
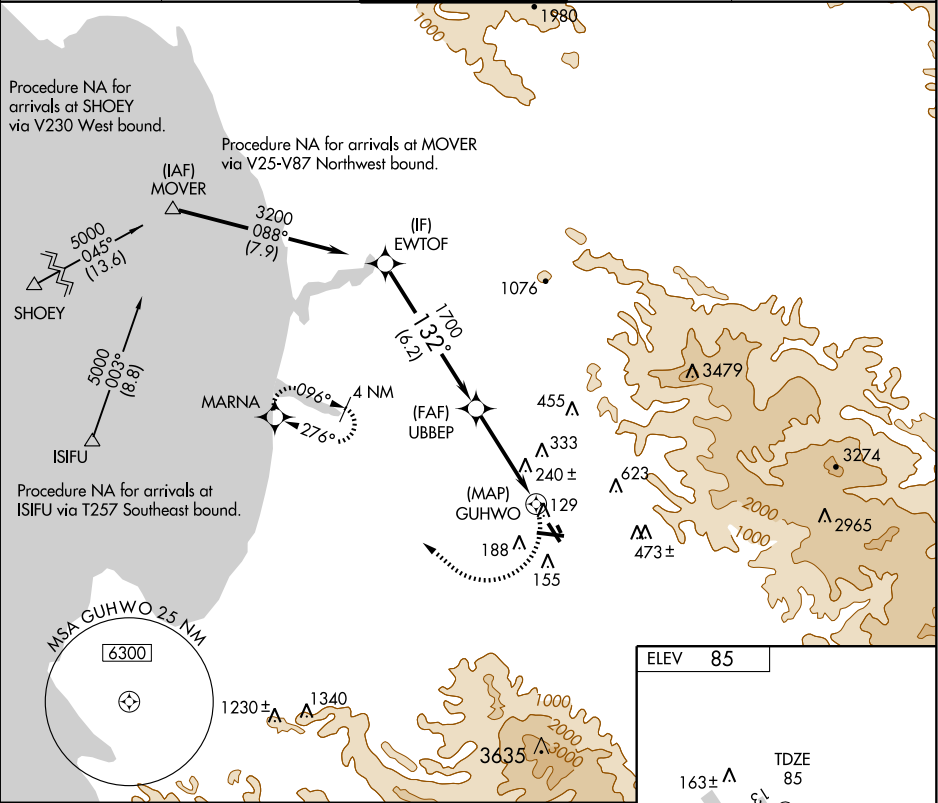
SALINAS MUNI (SNS)

▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

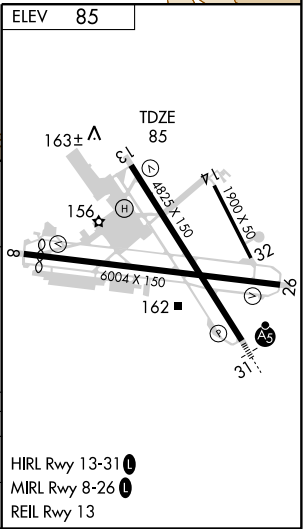
▲ When local altimeter setting not received, use Monterey Peninsula altimeter setting and increase all MDA 60 feet and increase LNAV Cat C and D visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 3000 direct MARNA and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER* 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	540-1	455 (500-1)	540-1½ 455 (500-1½)	540-1½ 455 (500-1½)
CIRCLING	540-1	455 (500-1)	540-1½ 455 (500-1½)	760-2¼ 675 (700-2¼)



WAAS CH 69513 W31A	APP CRS 312°	Rwy Idg TDZE Apt Elev	4825 82 85
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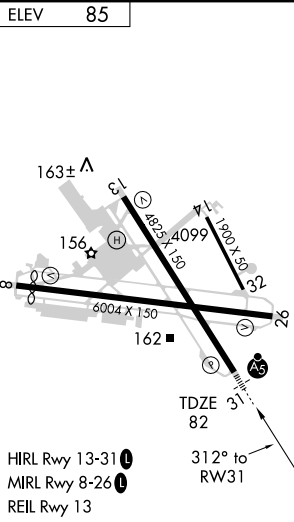
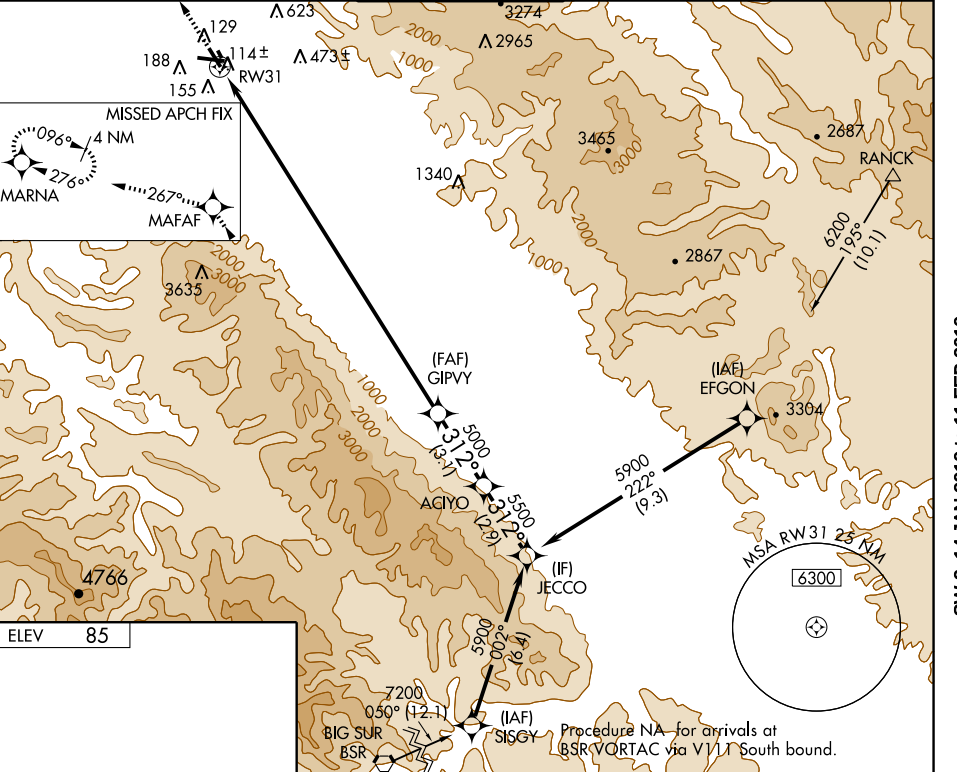
Baro-VNAV NA when using Monterey Peninsula altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 50°C (122°F).

DME/DME RNP-0.3 NA. Circling requires descent on glidepath to MDA. When local altimeter not received, use Monterey Peninsula altimeter setting and increase all DA 53 feet and all MDA 60 feet and LNAV/VNAV all Cats visibility to RVR 5000 and increase circling Cats A and B visibility ¼ mile.

MALSR

MISSED APPROACH:
Climb to 3000 direct MAFAP and left turn via track 267° to MARNA and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER ★ 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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	3000	MAFAP	trk 267°	MARNA					Procedure Turn NA
				GIPVY 5000	ACIYO	JECCO			
					5500	5900			GS 3.00° TCH 50
					5000				VGSI and RNAV glidepath not coincident.
					14.7 NM	3.1 NM	2.9 NM		
CATEGORY	A	B	C	D					
LPV DA		282/24	200 (200-½)						
LNAV/VNAV DA		478/40	396 (400-¾)						
CIRCLING	500-1¼ 415 (500-1¼)	540-1¼ 455 (500-1¼)	540-1½ 455 (500-1½)	760-2¼ 675 (700-2¼)					

SW-2, 14 JAN 2010 to 11 FEB 2010

SALINAS TWO DEPARTURE

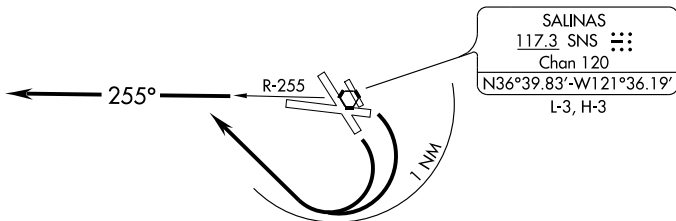
SL-363 (FAA)

SALINAS MUNI (SNS)
SALINAS, CALIFORNIA

ATIS 124.85
GND CON
121.7 239.3
NORCAL DEP CON
133.0 251.15
CTAF 119.4

WOODSIDE
113.9 OSI
Chan 86
N37°23.55'-W122°16.88'
L-2-3, H-3

SAN JOSE
114.1 SJC
Chan 88
N37°22.48'-W121°56.68'
L-2-3



BIG SUR
114.0 BSR
Chan 87
N36°10.88'-W121°38.53'
L-3, H-4

AVENAL
117.1 AVE
Chan 118
N35°38.82'-W119°58.72'
L-3-7, H-4

FILLMORE
112.5 FIM
Chan 72
N34°21.40'-W118°52.88'
L-3-4-7, H-4

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

All aircraft expect vectors to assigned route. Maintain 6000'. Expect clearance to filed altitude five minutes after departure.

TAKE-OFF RUNWAYS 8 and 13: Turn right within one mile to intercept and climb via SNS R-255 for vector.

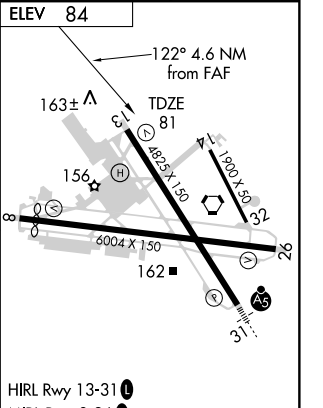
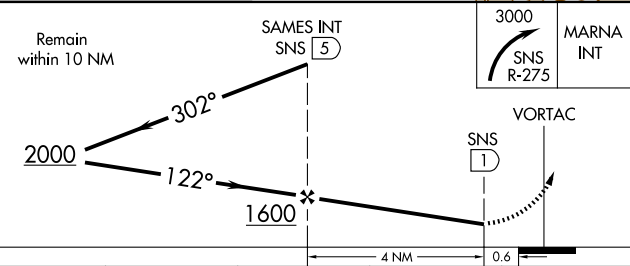
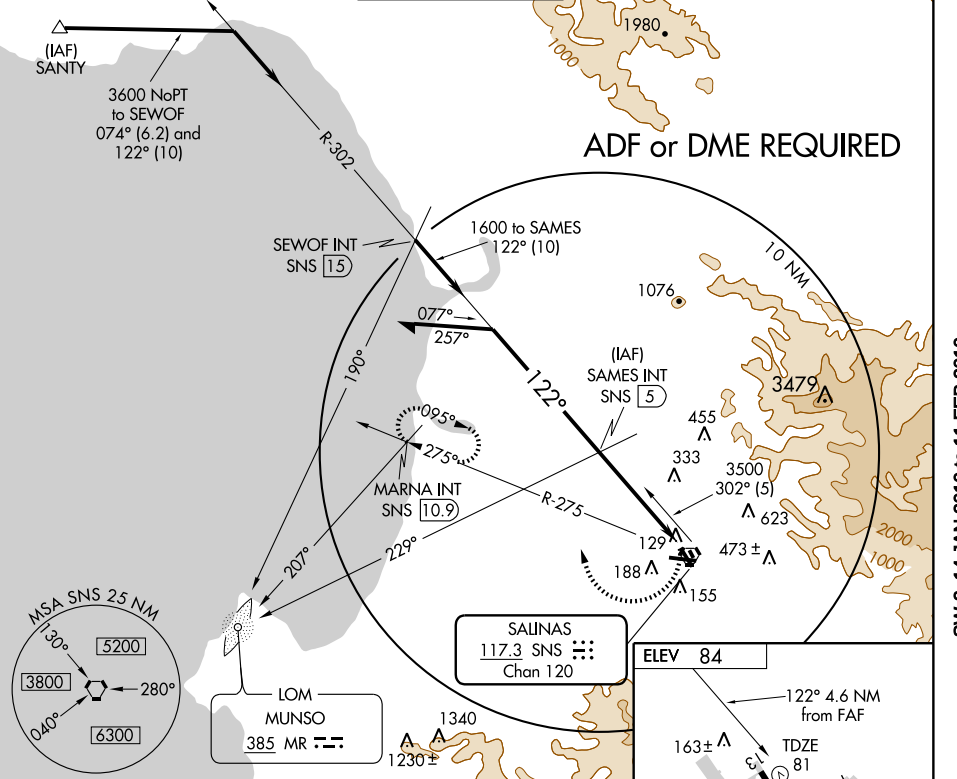
TAKE-OFF RUNWAYS 26 and 31: Climb on SNS R-255 for vector.

▼

▲

MISSED APPROACH: Climbing right turn to 3000 via SNS R-275 to MARNA INT and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER* 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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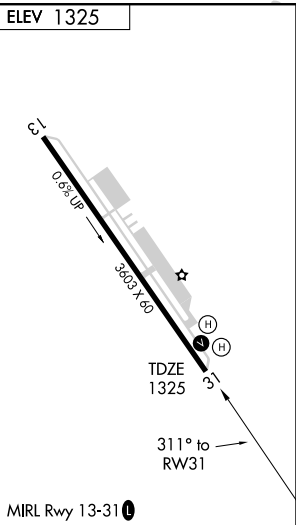
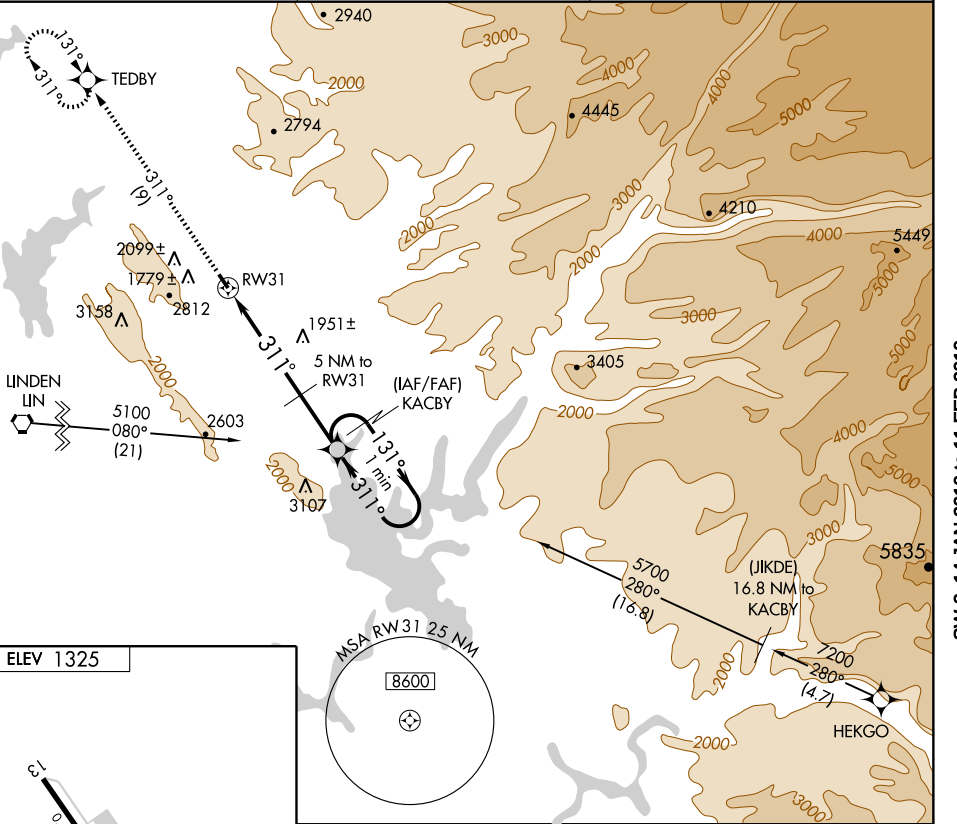
CATEGORY	A	B	C	D	FAF to MAP 4 NM					
S-13	500-1	419 (500-1)	500-1¼ 419 (500-1¼)	1020-3 939 (1000-3)	Knots	60	90	120	150	180
CIRCLING	560-1 476 (500-1)	580-1 496 (500-1)	580-1½ 496 (500-1½)	1020-3 936 (1000-3)	Min:Sec	4:00	2:40	2:00	1:36	1:20

NA

Circling not authorized west of Rwy 13-31.

MISSED APPROACH: Climb to 4000 via 311° course to TEDBY WP and hold.

AWOS-3 118.525	OAKLAND CENTER 126.85 322.55	UNICOM 123.0 (CTAF) 1
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4000
↑
311°

TEDBY

5 NM to RW31

311°

3300

4100

4400

131°

311°

One Minute Holding Pattern

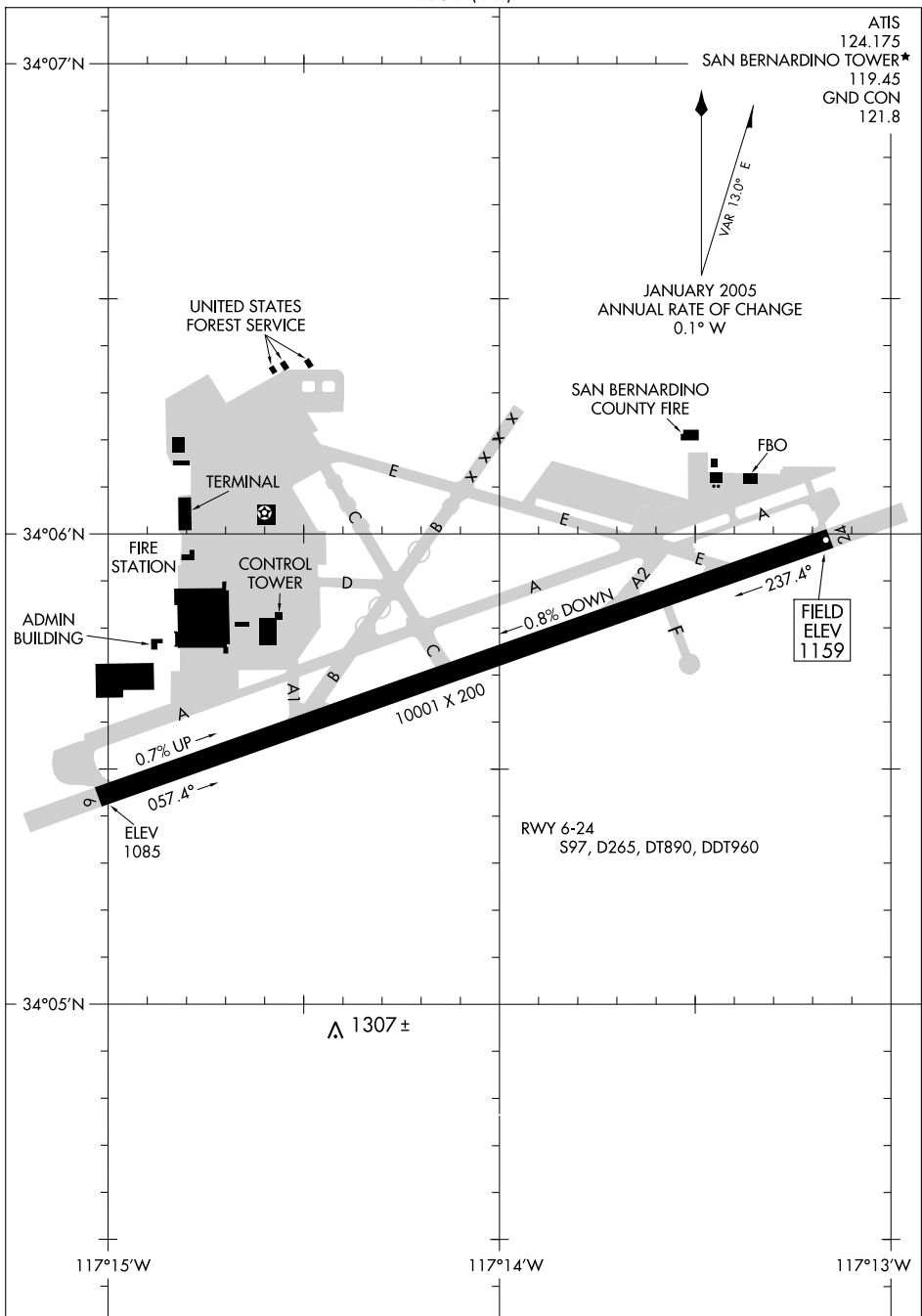
CATEGORY	A	B	C	D
S-31	2240-1¼	915 (1000-1¼)	NA	
CIRCLING	2240-1¼	915 (1000-1¼)	NA	

SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-547 (FAA)

SAN BERNARDINO INTL (SBD)
SAN BERNARDINO, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

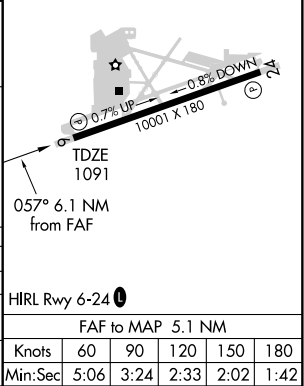
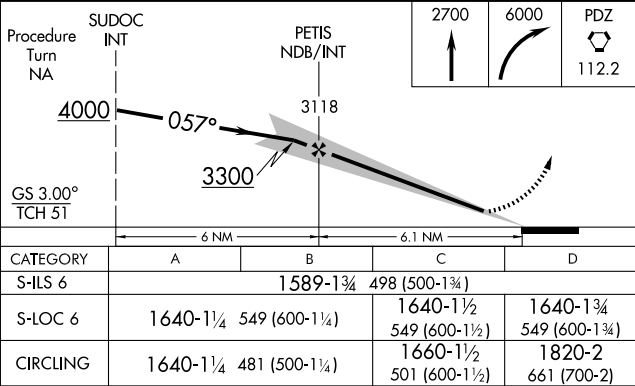
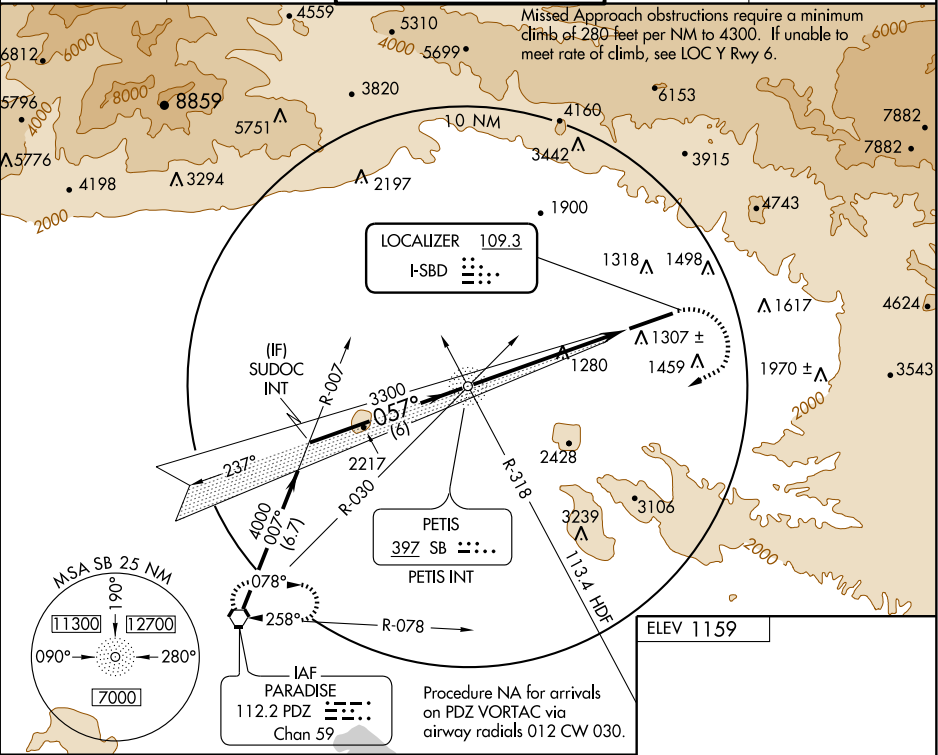
LOC I-SBD	APP CRS	Rwy Idg	10001
109.3	057°	TDZE	1091
		Apt Elev	1159

ILS or LOC Z RWY 6
SAN BERNARDINO INTL (SBD)

⚠ When local altimeter setting not received, use Ontario Intl altimeter setting and increase all DA to 1662 feet and all visibilities ¼ mile. Increase all MDA 80 feet and S-LOC Cat C/D visibilities ½ mile and Circling Cat C ¼ mile and Cat D ½ mile. Circling NA north of Rwy 6-24. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2700, then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.

ATIS 124.175	SOCAL APP CON 127.25 318.2	SAN BERNARDINO TOWER ★ 119.45 (CTAF) 0	GND CON 121.8	UNICOM 122.975
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LOC I-SBD <u>109.3</u>	APP CRS 057°	Rwy Idg 10001 TDZE 1091 Apt Elev 1159
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LOC Y RWY 6
SAN BERNARDINO INTL (SBD)

T	If local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDAs 80 feet.
A NA	Circling NA north of Rwy 6-24. Visibility reduction by helicopters NA.

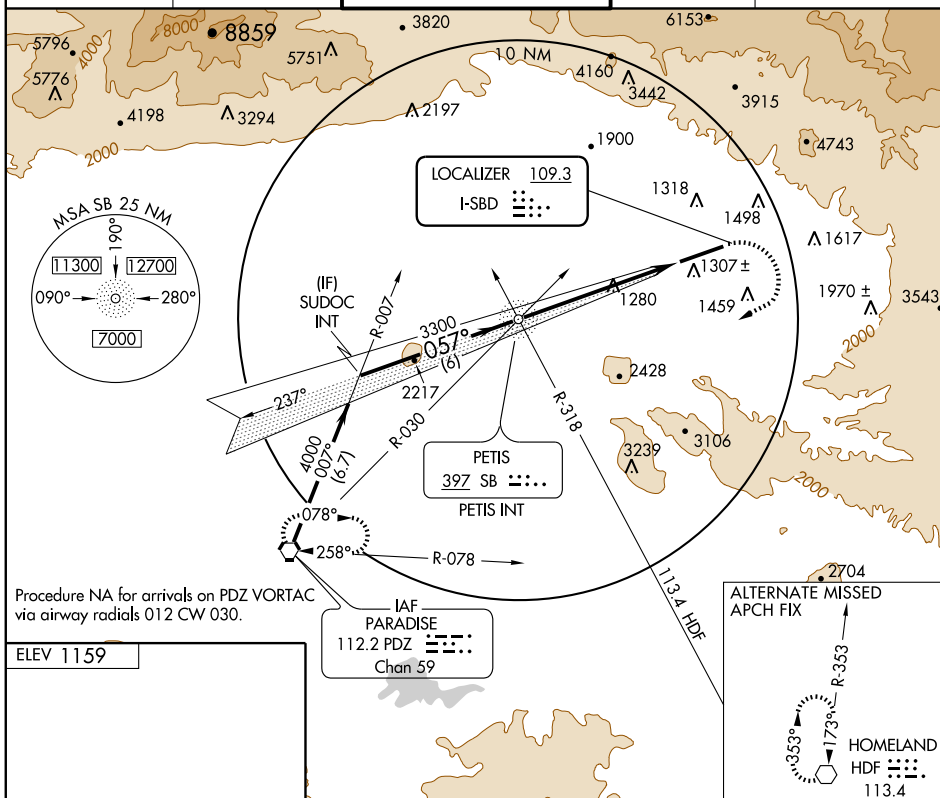
MISSED APPROACH: Climb to 3100, then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.

ATIS
124-175

SOCAL APP CON
127.25 318.2

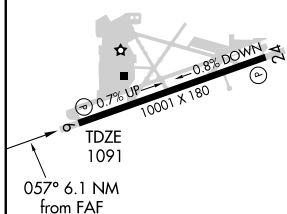
SAN BERNARDINO TO
119.45 (CTAF) 

GND CON
121-8

UNICOM
122.975

SW-3. 14 JAN 2010 to 11 FEB 2010

ELEV 11.59

HIRL Rwy 6-24 **L**

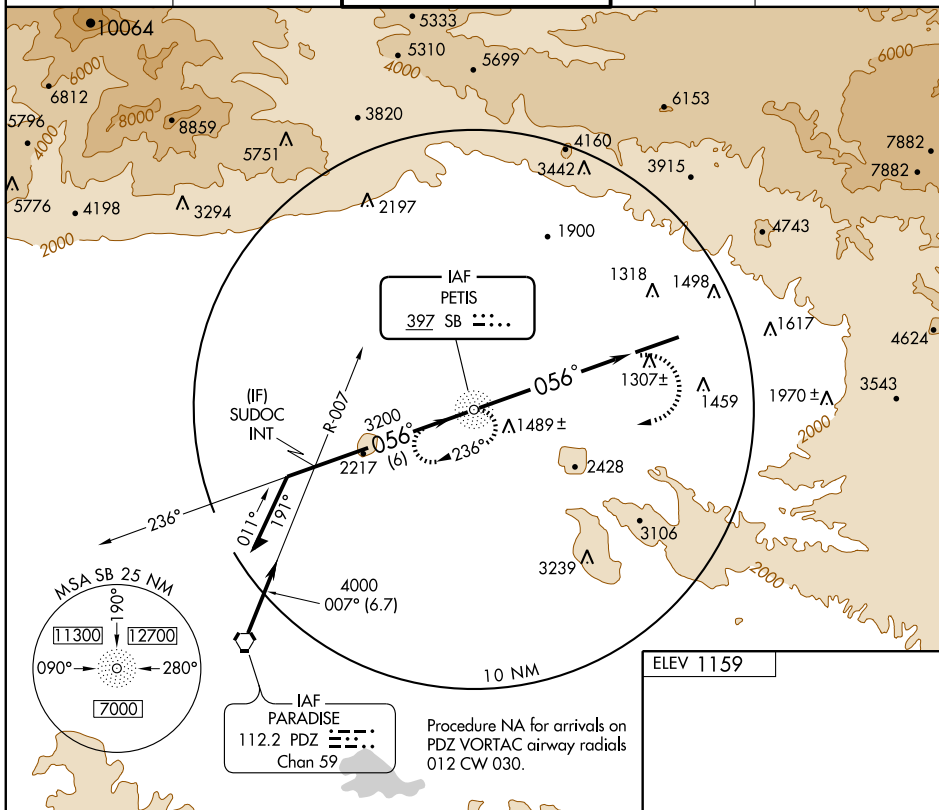
FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

Diagram illustrating a non-coincident VGSI and descent angle. The diagram shows a procedure turn NA at 4000 feet, a descent to 3300 feet at 057 degrees, and a final descent at 3.33 degrees TCH 52. The VGSI and descent angles are not coincident. The diagram also shows the SUDOC INT, PETIS NDB/INT, and the 3100, 6000, and PDZ 112.2 markers.

NDB RWY 6
SAN BERNARDINO INTL (SBD)

MISSED APPROACH: Climbing right turn to 4400 direct SB NDB and hold, continue climb-in-hold to 4400.

UNICOM
122.975

SB

ELEV 1159

HIRL Rwy 6-24 **L**

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

APP CRS

057°

Rwy Idg

10001

TDZE

1091

Apt Elev

1159

Circling NA north of Rwy 6 and 24. DME/DME RNP -0.3 NA.

NA

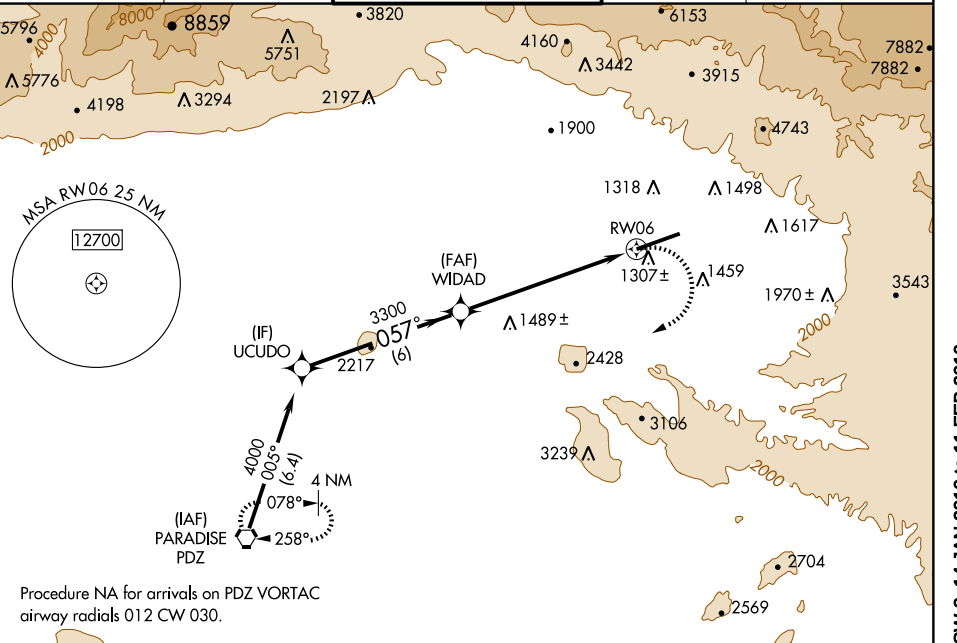
Visibility reduction by helicopters NA.

When local altimeter setting not received, procedure NA.

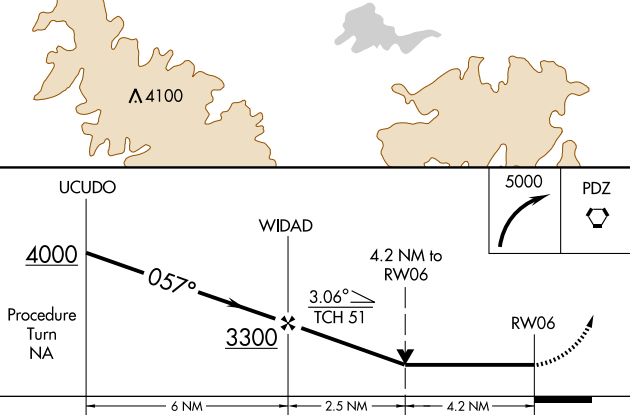
MISSED APPROACH: Climbing right turn to 5000

direct PDZ VORTAC and hold.

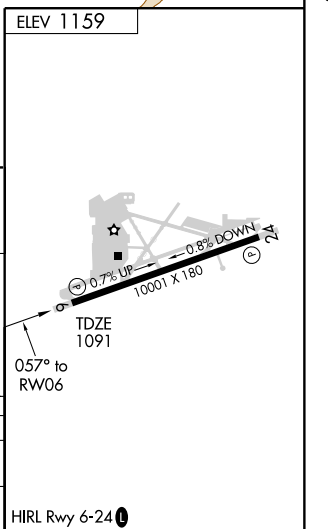
ATIS	SOCAL APP CON	SAN BERNARDINO TOWER *	GND CON	UNICOM
124.175	127.25 318.2	119.45 (CTAF)	121.8	122.975



Procedure NA for arrivals on PDZ VORTAC
airway radials 012 CW 030.



CATEGORY	A	B	C	D
LNAV MDA	2480-1¼ 1389 (1400-1¼)	2480-1½ 1389 (1400-1½)	2480-3 1389 (1400-3)	
CIRCLING	2480-1¼ 1321 (1400-1¼)	2480-1½ 1321 (1400-1½)	2480-3 1321 (1400-3)	



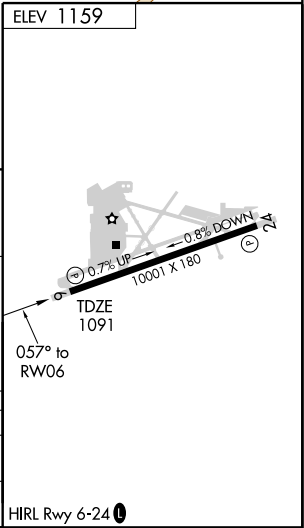
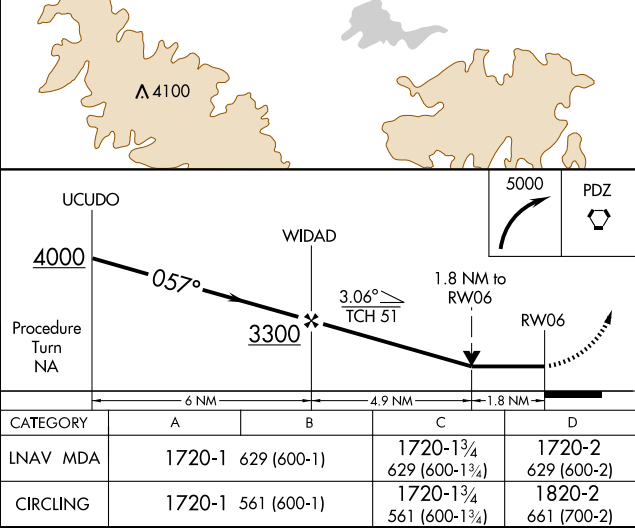
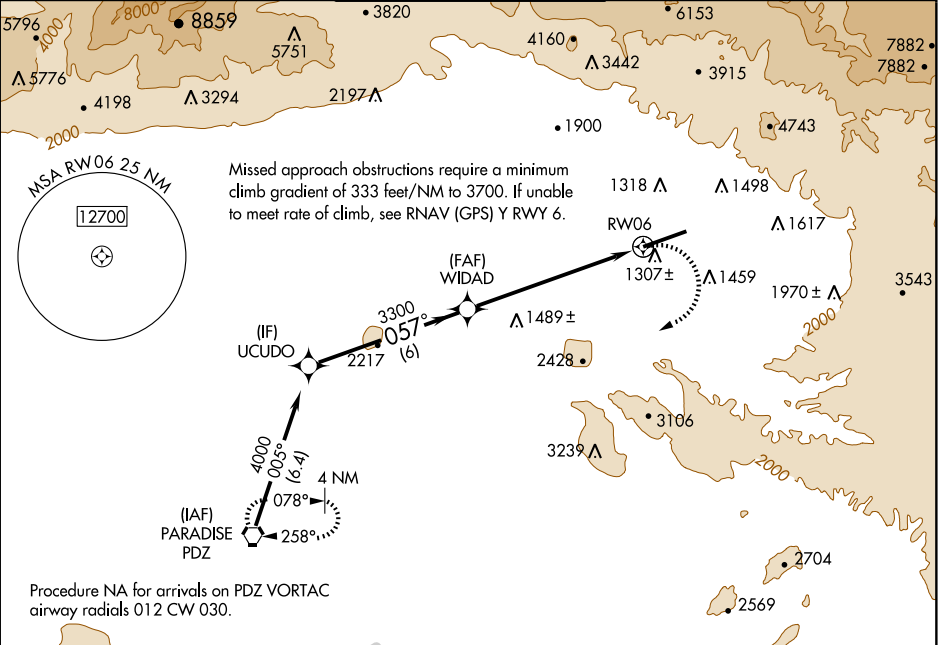
APP CRS	Rwy Idg	10001
057°	TDZE	1091
	Apt Elev	1159

RNAV (GPS) Z RWY 6

SAN BERNARDINO INTL (SBD)

⚠ Circling NA north of Rwy 6 and 24. DME/DME RNP -0.3 NA. ⚠ NA Visibility reduction by helicopters NA. When local altimeter setting not received, procedure NA.	MISSED APPROACH: Climbing right turn to 5000 direct PDZ VORTAC and hold.
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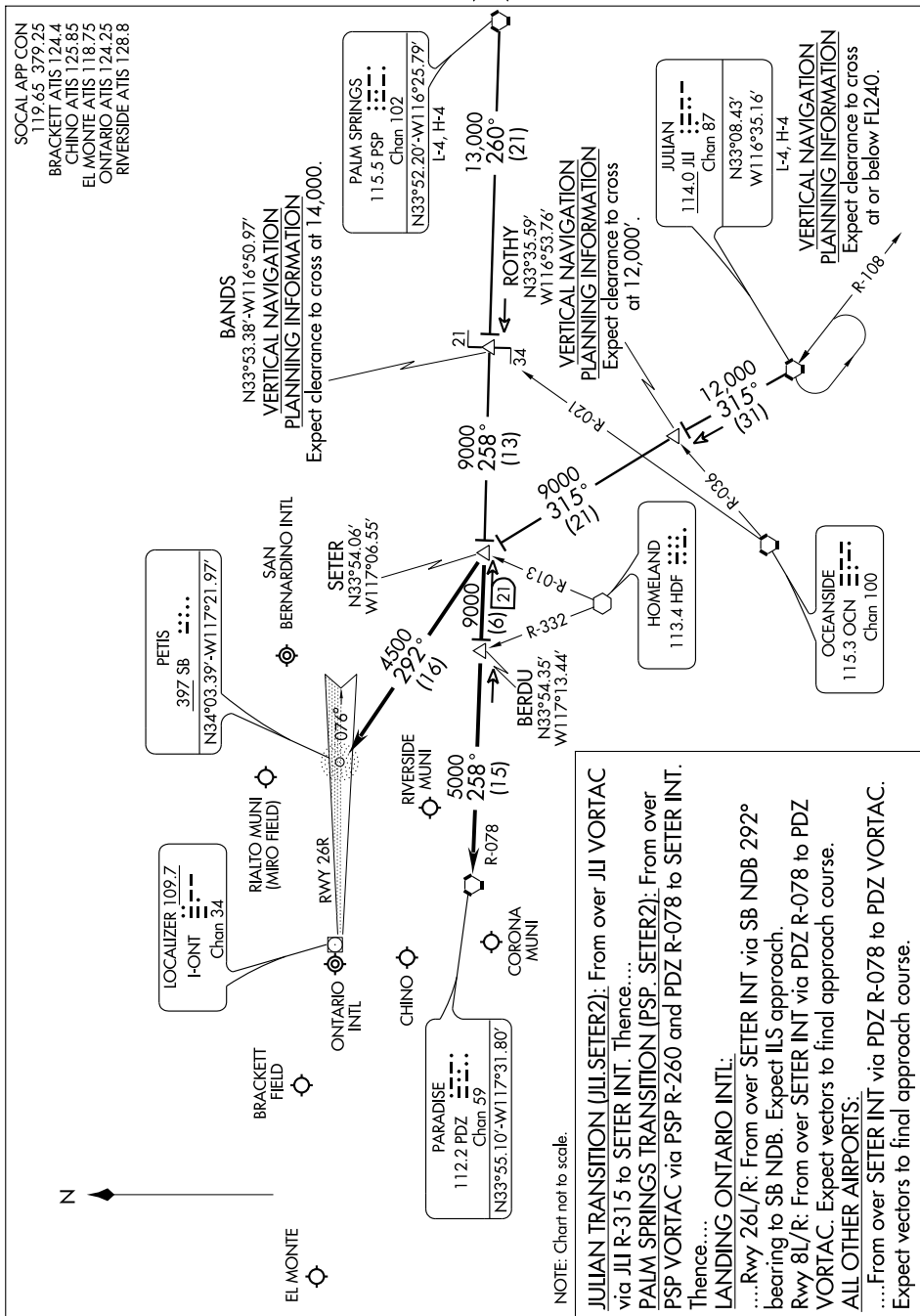
ATIS 124.175	SOCAL APP CON 127.25 318.2	SAN BERNARDINO TOWER * 119.45 (CTAF) ⓪	GND CON 121.8	UNICOM 122.975
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SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



ZIGGY FOUR ARRIVAL

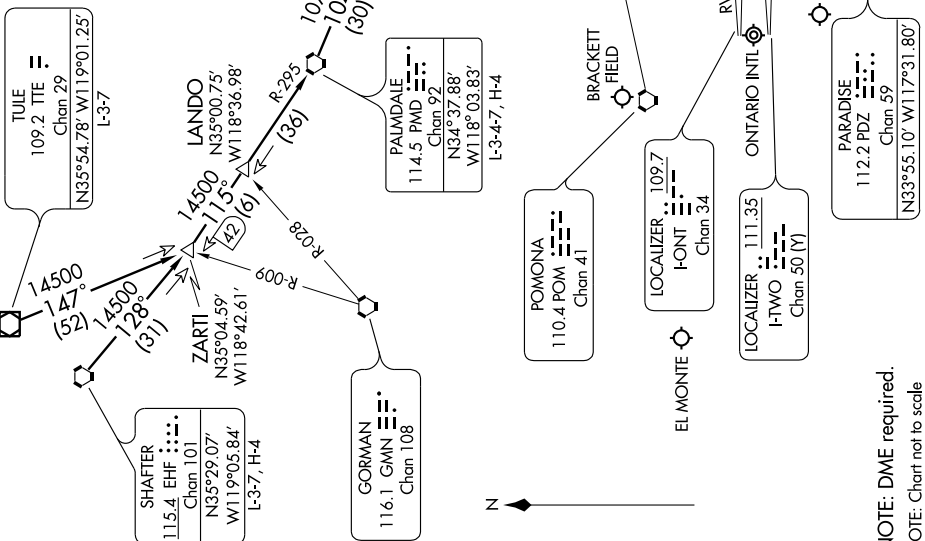
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

AIRPORT DIAGRAM

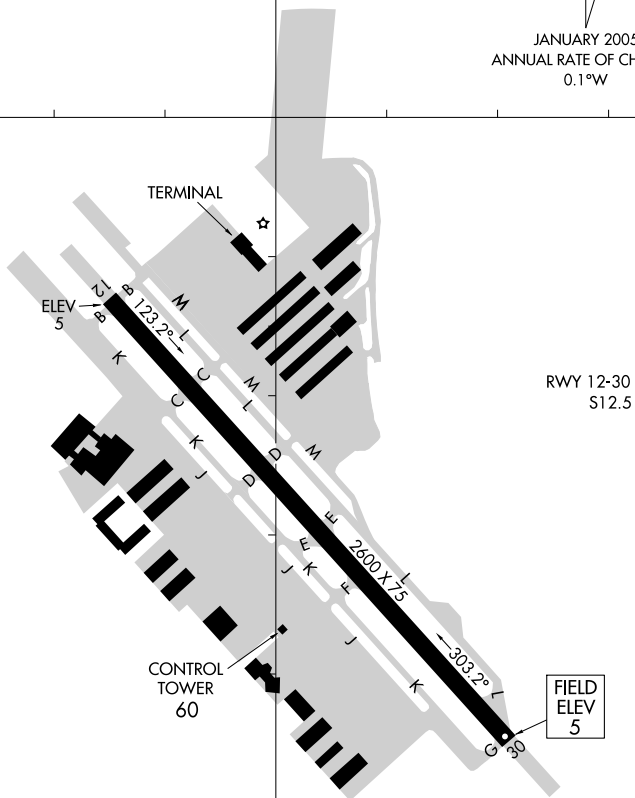
AL-9219 (FAA)

SAN CARLOS (SQL)
SAN CARLOS, CALIFORNIA

ATIS
125.9
SAN CARLOS TOWER ★
119.0 (CTAF) 326.2
GND CON
121.6


 JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.1°W

37°31'N



RWY 12-30
S12.5

FIELD
ELEV
5

37°30.5'N

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

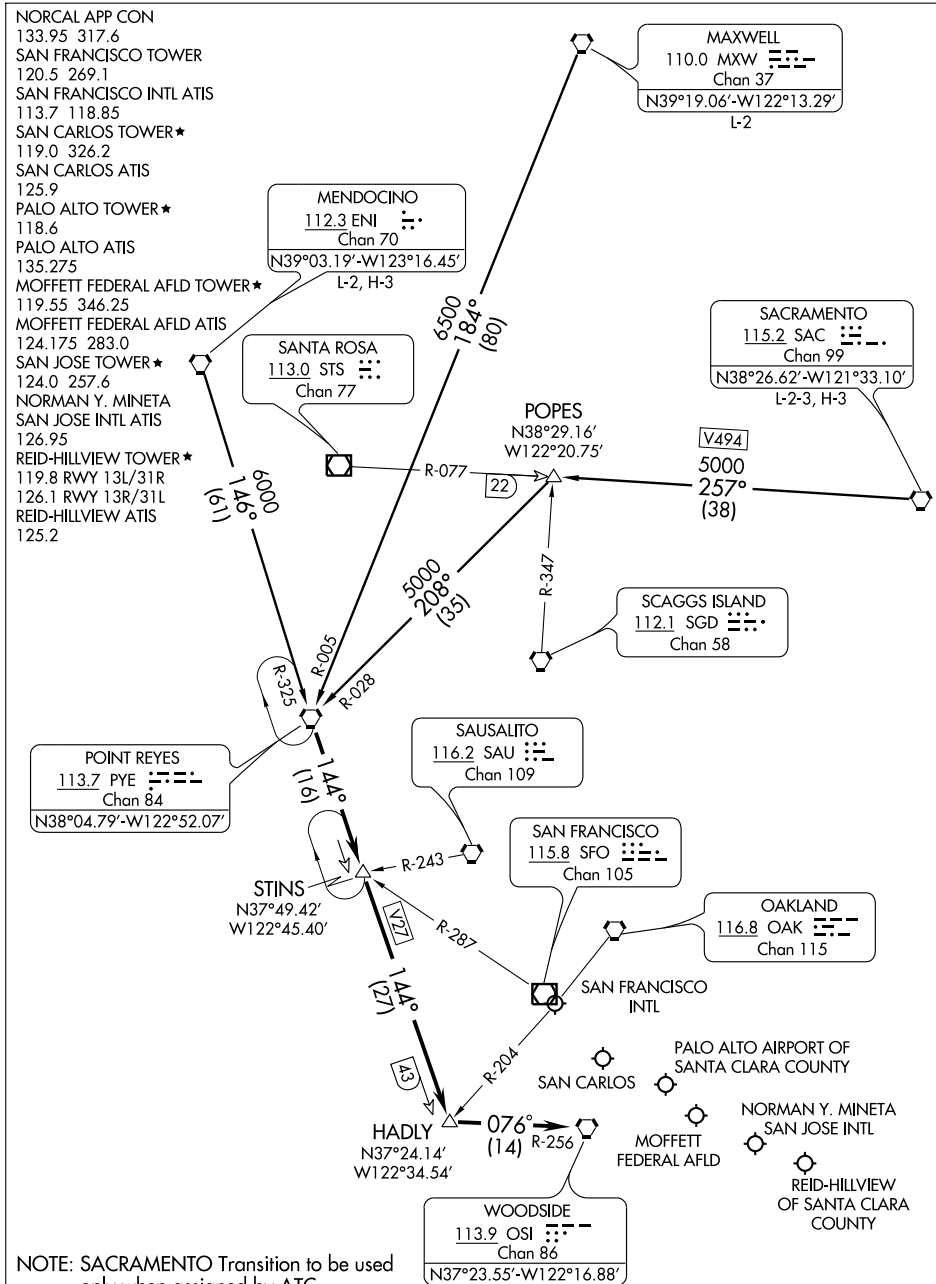
122°15'W

122°14.5'W

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

APP CRS	Rwy Idg	2600
297°	TDZE	5
	Apt Elev	5

RNAV (GPS) RWY 30
SAN CARLOS (SQL)

T Circling NA west of runway 12-30.
A NA When control tower closed, use San altimeter setting.

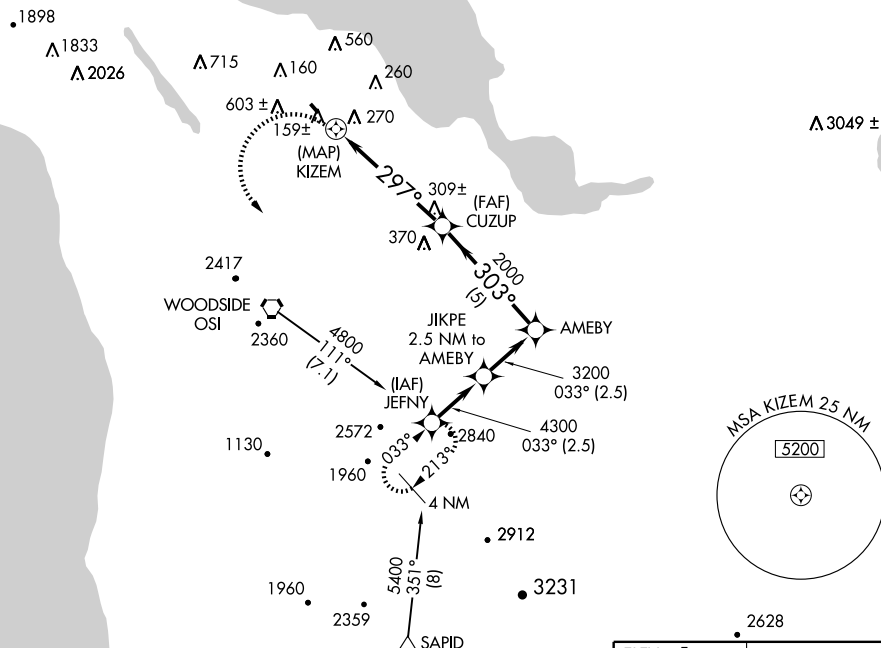
MISSED APPROACH: Climbing left turn to 4800 direct JEFNY WP and hold.

ATIS
125.9

NORCAL APP CON
133.95 317.6

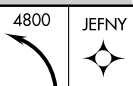
SAN CARLOS TOWER ★
119.0 (CTAF) **L** 326.2

GND CON
121.6

UNICOM
122.95

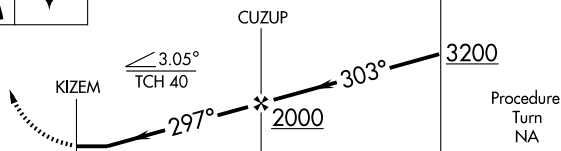
SW-2: 14 JAN 2010 to 11 FEB 2010

ELEV 5



VGS| and descent angles not coincident

AMF8Y



	0.9	5.2 NM	5 NM	
CATEGORY	A	B	C	D
RNAV MDA	640-1 635 (700-1)		NA	
CIRCLING	640-1 635 (700-1)		NA	
SAN FRANCISCO INTL ALTIMETER SETTING MINIMUMS				
RNAV MDA	660-1 655 (700-1)		NA	
CIRCLING	660-1 655 (700-1)		NA	

REIL Rwy 12
REIL Rwy 30 **L**
MIRL Rwy 12-30 **L**

ATIS ★ 268.6
 SAN CLEMENTE ISLAND TOWER ★
 126.75 278.8
 GND CON
 119.55 251.05



OCTOBER 2005
 ANNUAL RATE OF CHANGE
 0.1°W

33°02'N

FIELD
 ELEV
 184

23

E-28

234.3°

(H)

9301 x 200

ELEV 175

FIRE
 STATION

CONTROL
 TOWER/
 OPERATIONS

PASSENGER
 TERMINAL

33°01'N

118°35'W

118°36'W

RWY 05-23
 PCN 68 R/C/W/T

ELEV
 91

1.0% UP

054.3°

E-28

A

C

A

D

SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN NUC Chan 123	APCH CRS 233°	Rwy Idg TDZE Arpt Elev 184
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JAL-5126 [USN]

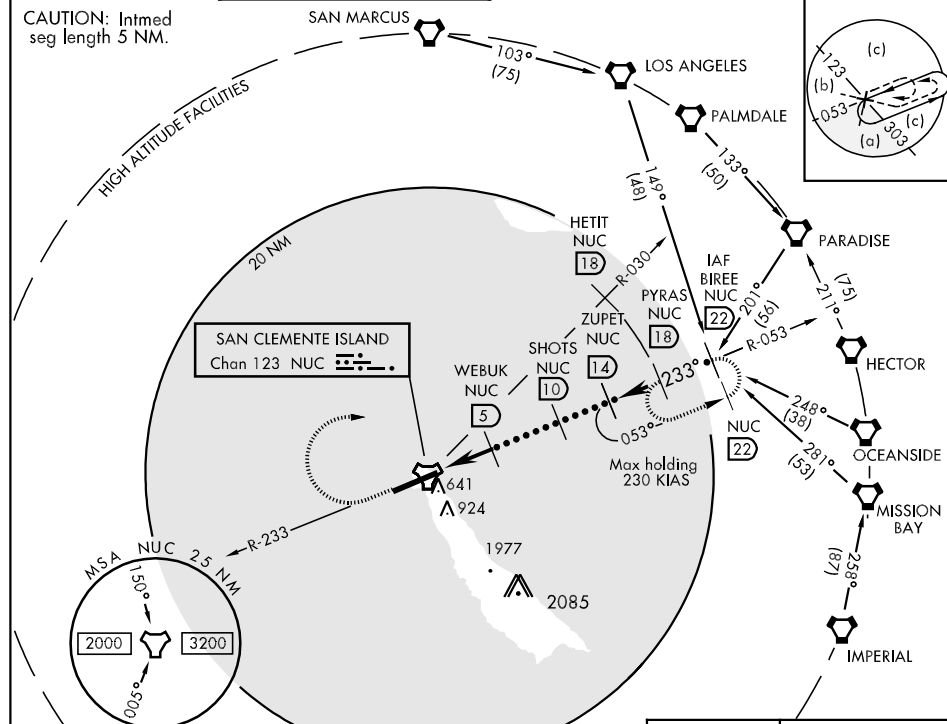
SAN CLEMENTE ISLAND NALF
(FREDERICK SHERMAN FLD) (KNUC)

▼ *Circling not authorized S of Rwy 5-23.

MISSED APPROACH: Climb to 1500 via NUC TACAN R-233 then climbing right turn to 4000 via NUC R-030 to HETIT. Then arc NE of the NUC TACAN via the 18 DME arc to PYRAS and hold.

CAUTION: Procedure in uncontrolled airspace.

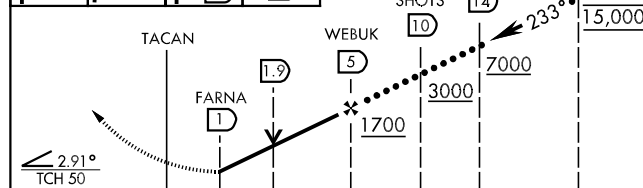
ATIS ★ 268.6	SAN CLEMENTE ISLAND TOWER ★ 126.75 278.8	GND CON 0 119.55 251.05	ASR/PAR
------------------------	--	-----------------------------------	---------

CAUTION: Intmed
seg length 5 NM.

SW-3, 14 JAN 2010 to 11 FEB 2010

EMERG SAFE ALT 100 NM 12,100

1500 ↑ NUC R-233	4000 ↑ NUC R-030	HETIT Arc 18	PYRAS R-053 18	BIREE R-053 22
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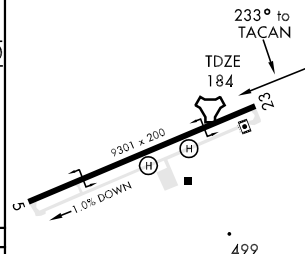
CATEGORY	C	D	E
S-23	760-1½ 576 (600-1½)	760-1¾ 576 (600-1¾)	760-2 576 (600-2)
CIRCLING *	760-1½ 576 (600-1½)	760-2	576 (600-2)
S-PAR 23	434-1	250 (300-1)	GS 3.0°

SAN CLEMENTE ISLAND, CALIFORNIA

33°01'N-118°35'W

SAN CLEMENTE ISLAND NALF (KNUC)
(FREDERICK SHERMAN FLD)

ELEV 184



HIRL Rwy 5-23 0

REIL Rwy 5-23 0

499

APCH CRS 233°	Rwy Idg TDZE Arpt Elev	9301 184 184
-------------------------	------------------------------	---

AL-5126 [USN]

▼ * Circling not authorized S of Rwy 5 - 23.
DME/DME RNP-0.3 NA
Baro VNAV NA below -15°C (4°F) or above 41°C (106°F)

MISSED APPROACH: Climb to 1500, then climbing
right turn to 3000 direct JUROR WP and hold.

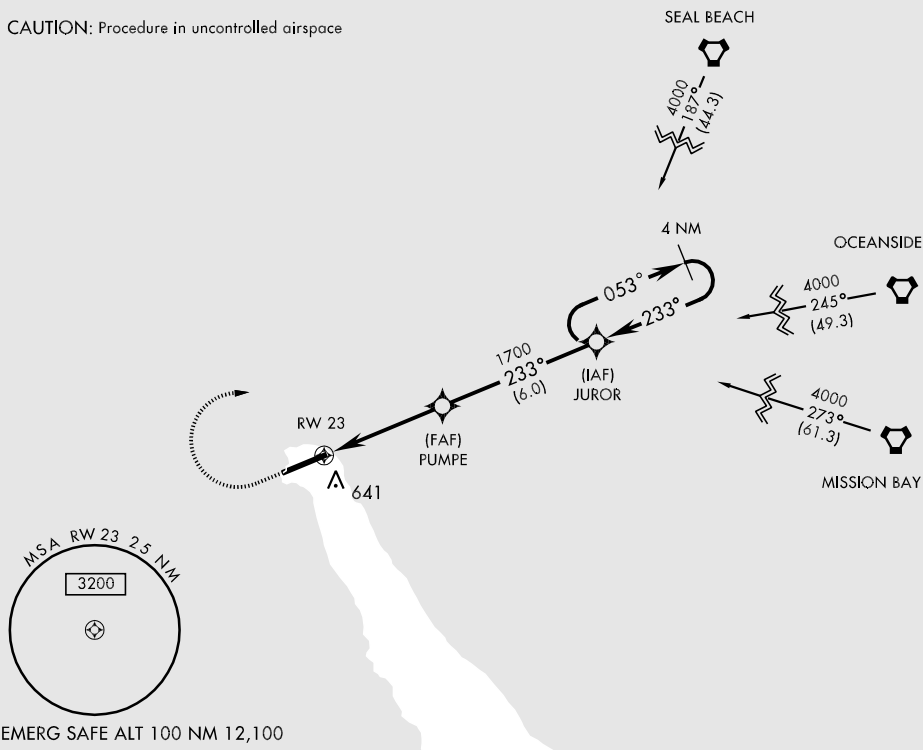
ATIS ★
268.6

SAN CLEMENTE ISLAND TOWER ★
126.75 278.8

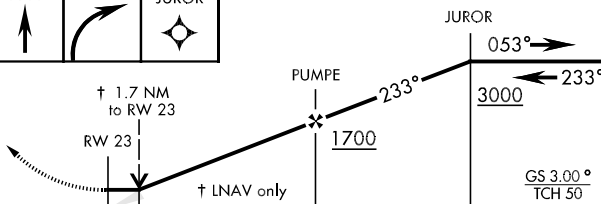
GND CON
0 119.55 251.05

ASR/PAR

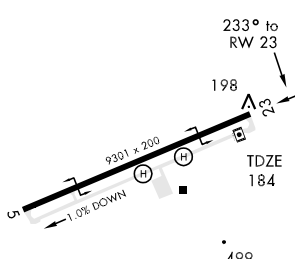
CAUTION: Procedure in uncontrolled airspace



EMERG SAFE ALT 100 NM 12,100



ELEV 184



	4.0 NM		6.0 NM		
CATEGORY	A	B	C	D	
LNNAV/VNAV DA	740-2 556 (600-2)				
LNNAV MDA	760-1 576 (600-1)	760-1½ 576 (600-1½)		760-1¾ 576 (600-1¾)	
CIRCLING *	760-2 576 (600-2)				
S-PAR 23	434-1 250 (300-1)	GS 3.0°			

HIRL Rwy 5-23 0
REIL Rwy 5-23 0

TACAN NUC Chan 123	APCH CRS 233°	Rwy Idg TDZE Arprt Elev 9301 184 184
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AL-5126 [USN]

SAN CLEMENTE ISLAND NALF
(FREDERICK SHERMAN FLD) (KNUC)

* Circling not authorized S of Rwy 5-23.

MISSED APPROACH: Climb to 1500 via NUC TACAN R-233 then climbing right turn to 4000 via NUC R-030 to HETIT. Then arc NE of NUC TACAN via the 18 DME arc to PYRAS and hold.

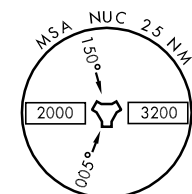
ATIS ★
268.6

SAN CLEMENTE ISLAND TOWER ★
126.75 278.8

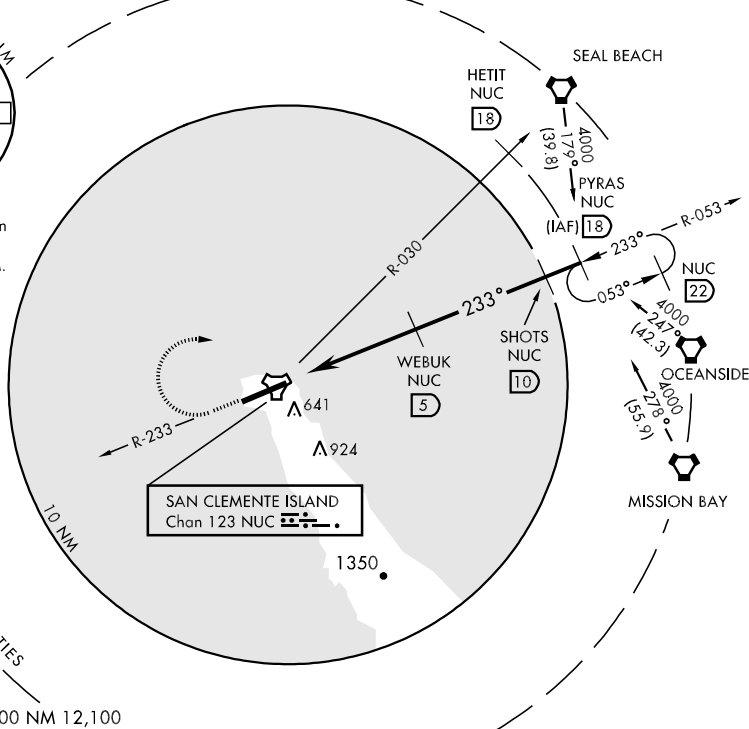
GND CON

119.55 251.05

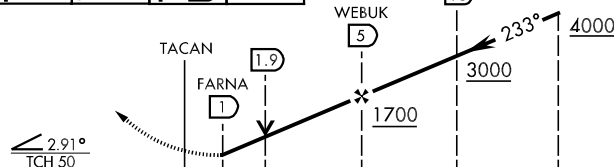
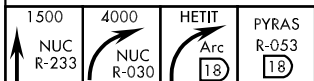
ASR/PAR



CAUTION: Procedure in uncontrolled airspace. Intimed seg length 5 NM.

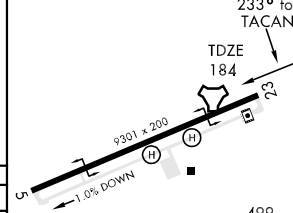


EMERG SAFE ALT 100 NM 12,100



CATEGORY	A	B	C	D
S-23	760-1 576 (600-1)	760-1½ 576 (600-1½)	760-1¾ 576 (600-1¾)	760-2 576 (600-2)
CIRCLING *	760-1 576 (600-1)	760-1½ 576 (600-1½)	760-2 576 (600-2)	
S-PAR 23	434-1 250 (300-1) GS 3.0°			

ELEV 184



HIRL Rwy 5-23

REIL Rwy 5-23

AIRPORT DIAGRAM

AL-5401 (FAA)

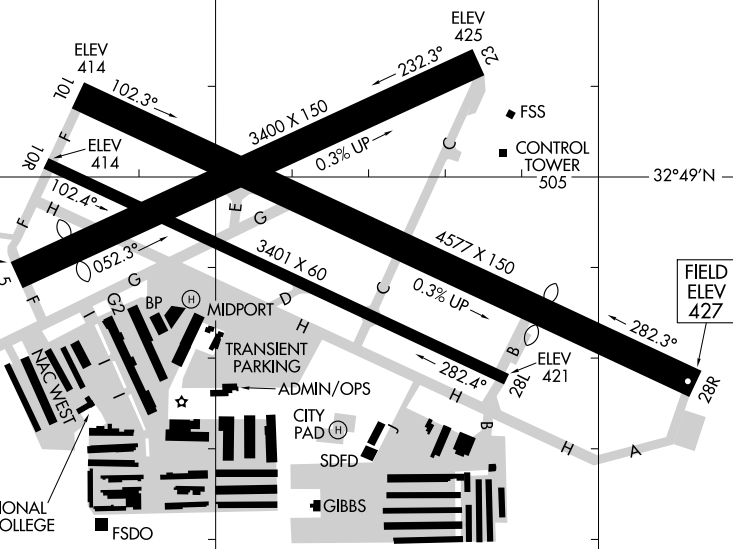
SAN DIEGO/MONTGOMERY FIELD (MYF)
SAN DIEGO, CALIFORNIA

ATIS
126.9
MONTGOMERY TOWER ★
119.2 269.4
GND CON
118.22
CLNC DEL
123.725

576
△

32°49.5'N

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W



■ FSS
■ CONTROL TOWER 505

FIELD ELEV 427

RWYS 5-23, 10L-28R, and 10R-28L
S12

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3, 14 JAN 2010 to 11 FEB 2010

117°09'W

117°08.5'W

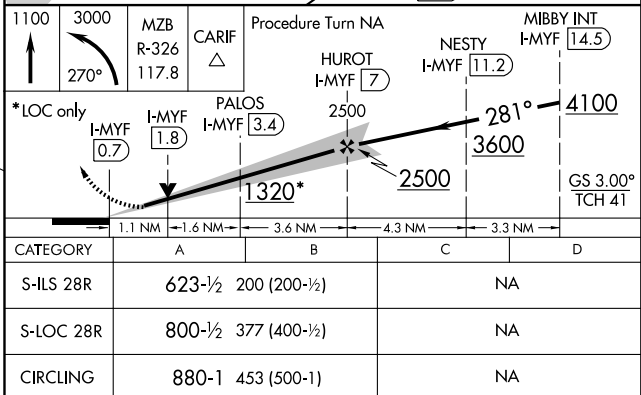
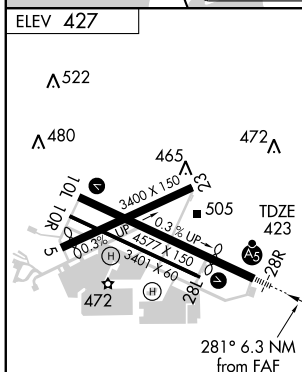
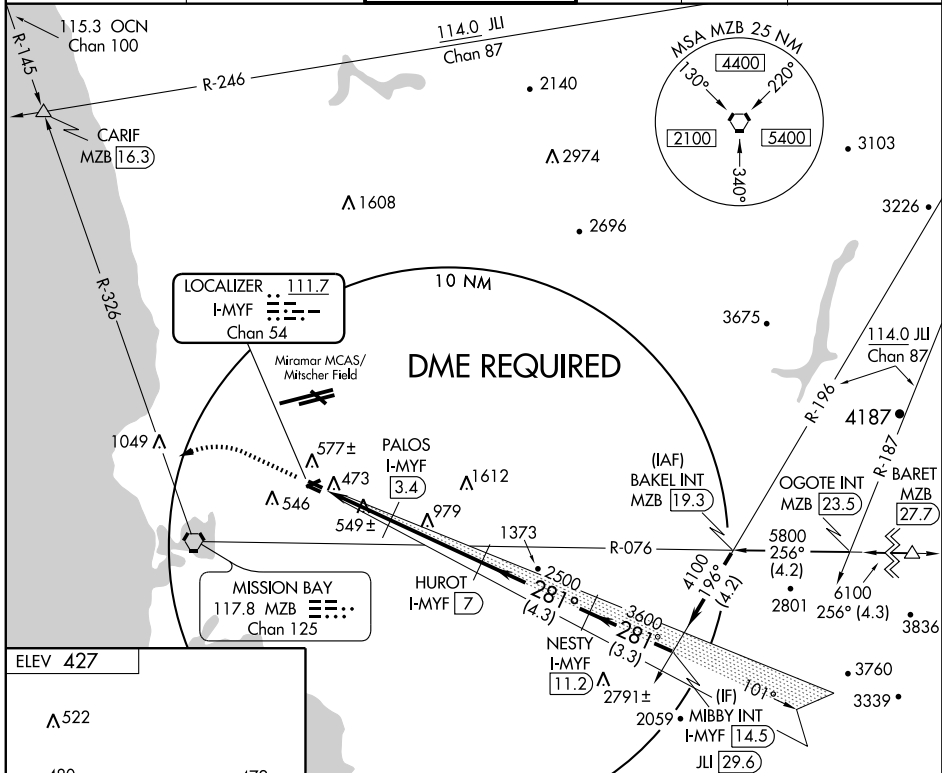
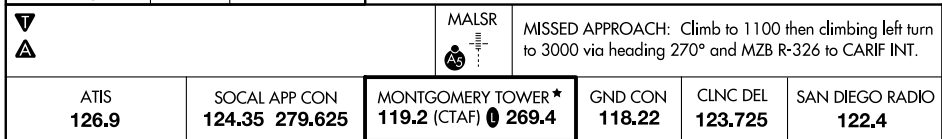
117°08'W

32°48.5'N

LOC/DME I-MYF <u>111.7</u> Chan 54	APP CRS 281°	Rwy Idg 3401 TDZE 423 Apt Elev 427
--	------------------------	---

ILS or LOC/DME RWY 28R
SAN DIEGO/ MONTGOMERY FIELD (MYF)

SAN DIEGO/ MONTGOMERY FIELD (MYF)



REIL Rwy 28L
MIRL Rwy 10L-28R

WAAS CH 45710 W28A	APP CRS 281°	Rwy Idg 3401 TDZE 423 Apt Elev 427
--	------------------------	---

RNAV (GPS) RWY 28R
SAN DIEGO/MONTGOMERY FIELD (MYF)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).
DME/DME RNP-0.3 NA.

MALSR



MISSED APPROACH: Climb to 3000 direct JOPDO and right turn via 327° track to CARIF.

ATIS
126.9

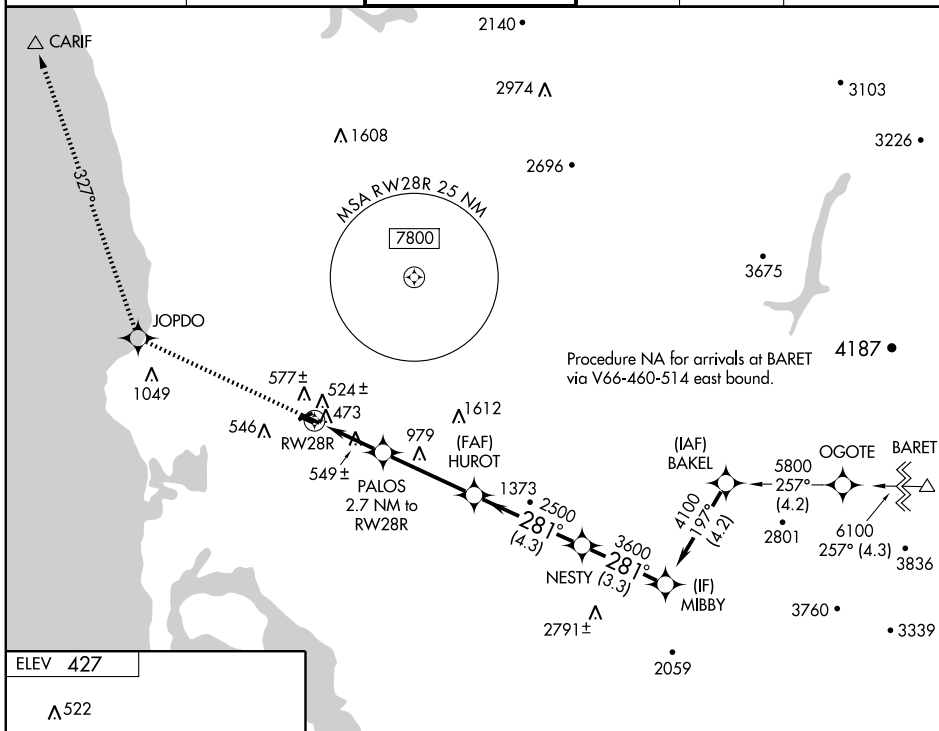
SOCAL APP CON
124.35 279.625

MONTGOMERY TOWER ★
119.2 (CTAF) **L** 269.4

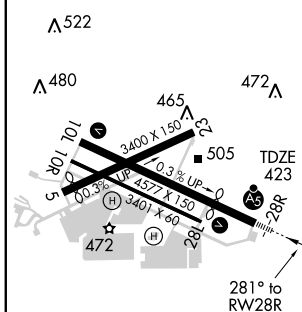
GND CON
118.22

CLNC DEL
123.725

SAN DIEGO RADIO
122.4



ELEV 427



REIL Rwy 28L
MIRL Rwy 10L-28R

3000 ↑		JOPDO ✦		327° ↻		CARIF △		VGS1 and RNAV glidepath not coincident. Procedure Turn NA		NESTY		MIBBY	
* LNAV only		* 1.2 NM to RW28R		2.7 NM to RW28R		PALOS		HUROT		281°		4100	
RW28R		↓		1320*		2500		✕		3600		GS 3.00° TCH 41	
1.2 NM		1.5 NM		3.6 NM		4.3 NM		3.3 NM					
CATEGORY		A		B		C		D					
LPV	DA	623-½ 200 (200-½)								NA			
LNAV/ VNAV	DA	750-¾ 327 (400-¾)								NA			
LNAV	MDA	840-½ 417 (500-½)								NA			
CIRCLING		880-1 453 (500-1)								NA			

TACAN NKX Chan 33	APCH CRS 244°	Rwy Idg TDZE 24R 12,000 24L 8001 Arprt Elev 477
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JAL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

- ▼ *When ALS inop, increase CAT C vis to 1¾ miles, CAT D to 2 miles, CAT E to 2½ miles.
 **Circling not authorized to Rwy 10-28. CAT E circling not authorized S of Rwy 6R-24L.

ALS-F-1



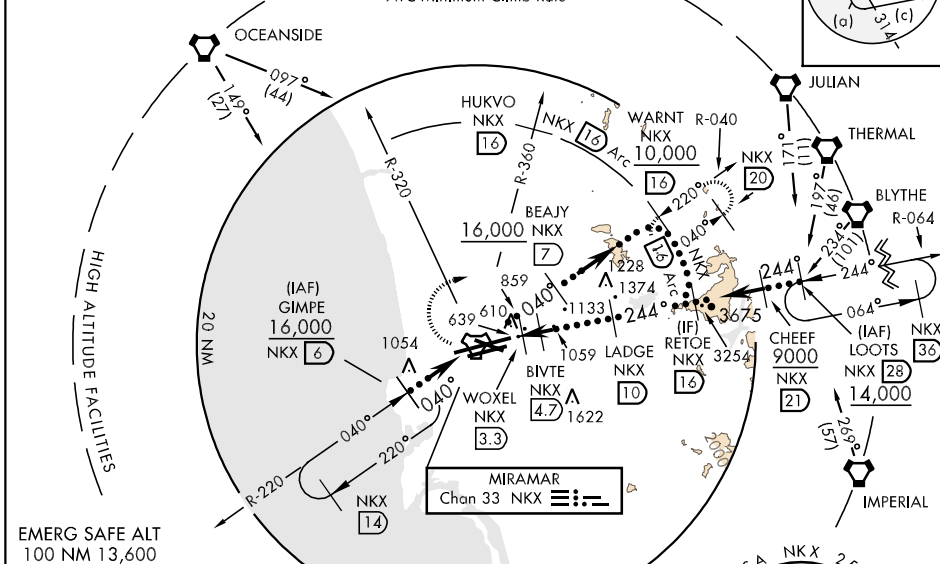
† MISSED APPROACH: Climb to 1500, then climbing right turn to 7000 via NKX TACAN R-360 to HUKVO. Arc NE of NKX via 16 mile arc to WARNT and hold. Cross R-320 at 3000 mandatory, cross HUKVO at 6000 mandatory.

ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	ASR/ PAR	LA CENTER 291.7
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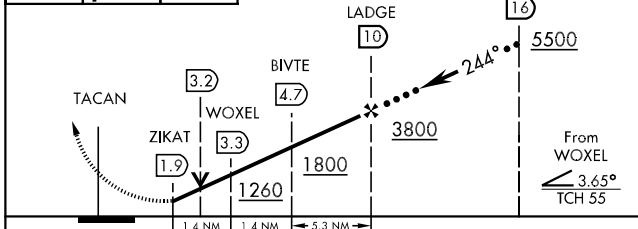
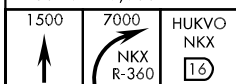
† CAUTION: Missed Approach
Minimum Climb Rate to 6000

Knots	60	120	180	240	300	360
V/V(fpm)	275	550	825	1100	1375	1650

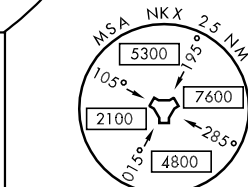
ATC Minimum Climb Rate



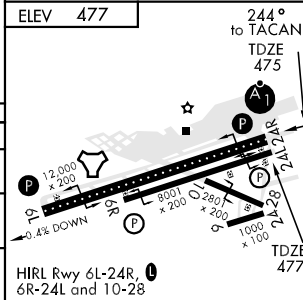
EMERG SAFE ALT
100 NM 13,600



CATEGORY	C	D	E
S-24R *	1100-1¼ 625 (700-1¼)	1100-1½ 625 (700-1½)	1100-1¾ 625 (700-1¾)
SIDE-STEP 24L	1100-1¾ 623 (700-1¾)	1100-2 623 (700-2)	1100-2¼ 623 (700-2¼)
CIRCLING**	1100-1¾ 623 (700-1¾)	1160-2¼ 683 (700-2¼)	1360-3 883 (900-3)



ELEV 477



LOC I-NKX 111.15	APCH CRS 240°	Rwy Idg 12,000 TDZE 475 Arprt Elev 477
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AL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)



* When ALS inop, increase CAT ABCDE vis to ¾ mile.

** When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1 ½ miles, CAT D to 1 ¾ miles, CAT E to 2 miles.

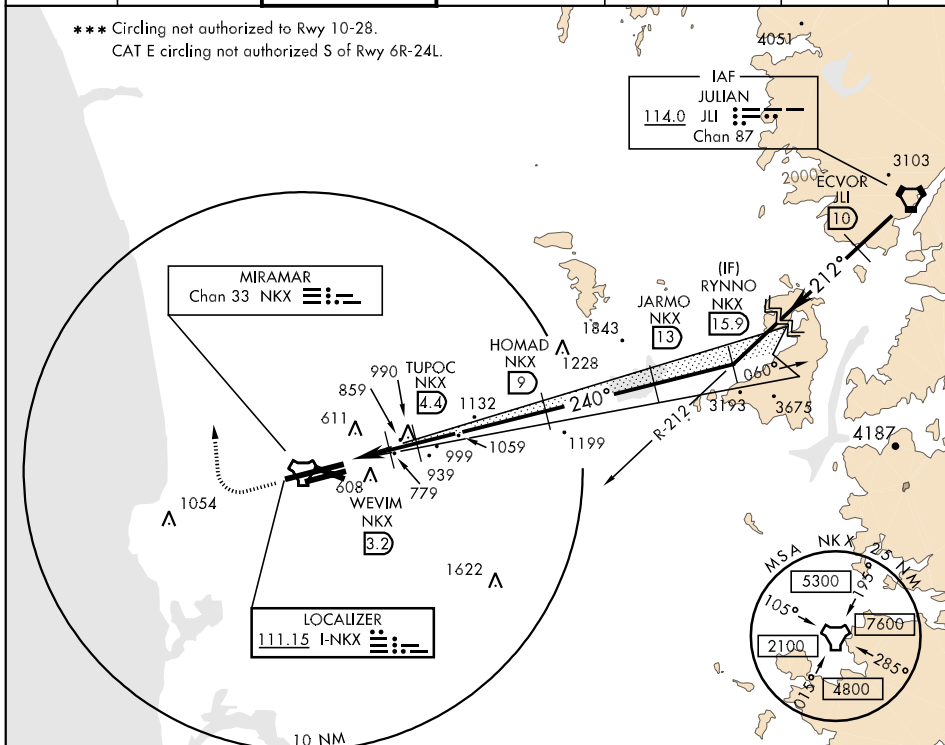


MISSED APPROACH: Climb to 1500, then climbing right turn to 3000 via heading 340°. Expect radar vectors.

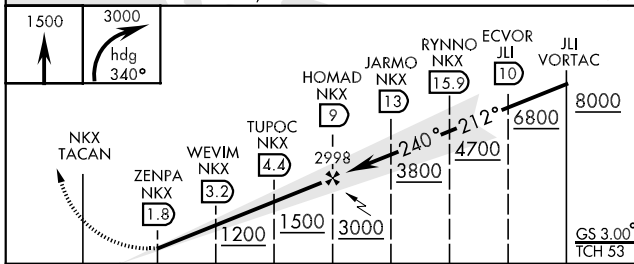
ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR
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*** Circling not authorized to Rwy 10-28.

CAT E circling not authorized S of Rwy 6R-24L.

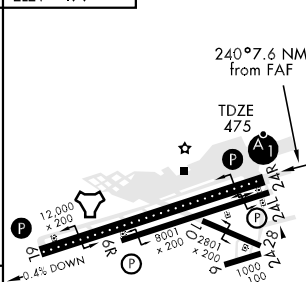


EMERG SAFE ALT 100 NM 13,600



CATEGORY	A	B	C	D	E
S-ILS 24R *	675 - ½		200	(200-½)	
S-LOC/ DME 24R **	1040-½	565 (600-½)	1040-1 565 (600-1)	1040-1½ 565 (600-1½)	1040-1½ 565 (600-1½)
CIRCLING ***	1040-1	563 (600-1)	1040-1½ 563 (600-1½)	1160-2¼ 683 (700-2¼)	1360-3 883 (900-3)

ELEV 477

HIRL Rwy 6L-24R, 0
6R-24L and 10-28

LAKEE-ONE DEPARTURE

(LAKEE1 • LAKEE)

SAN DIEGO, CALIFORNIA

ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
132.2 269.1 E

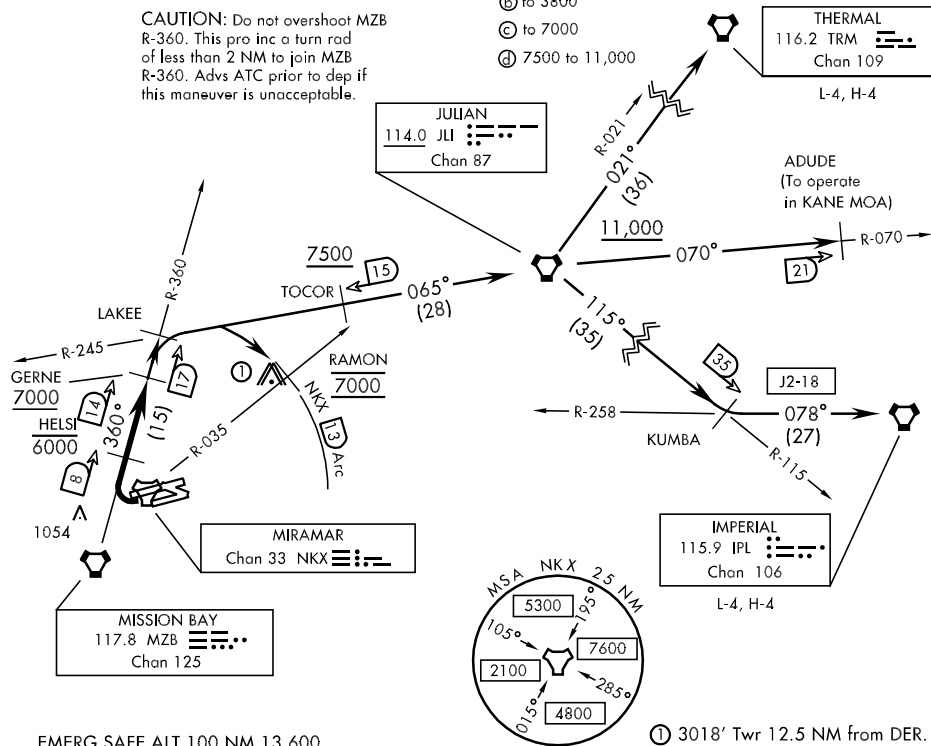
SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
* 24L/R (C)	V/V(fpm)	260	520	780	1040	1300	1560
** 24L/R (B)	V/V(fpm)	280	560	840	1120	1400	1680
† 24L/R (C)	V/V(fpm)	735	1470	2205	2940	3675	4410
† 24L/R (D)	V/V(fpm)	235	470	705	940	1175	1410

* Military Minimum ** Civil Minimum † ATC Minimum

- Ⓐ to 3600
- Ⓑ to 3800
- Ⓒ to 7000
- Ⓓ 7500 to 11,000

CAUTION: Do not overshoot MZB R-360. This procedure is a turn radius of less than 2 NM to join MZB R-360. Advise ATC prior to departure if this maneuver is unacceptable.



EMERG SAFE ALT 100 NM 13,600

① 3018' Twr 12.5 NM from DER.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Turn right to intercept and proceed via MZB VORTAC R-360 to LAKEE INT. Cross HELSI at or below 6000. Cross GERNE at or above 7000. Thence...

ADUDE TRANSITION (LAKEE1 • ADUDE): Via JLI VORTAC R-245 to JLI. Then via JLI R-070 to ADUDE. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000. (To operate in KANE MOA.)

IMPERIAL TRANSITION (LAKEE1 • IPL): Via JLI VORTAC R-245 to JLI. Then via JLI R-115 to KUMBA INT, then via IPL VORTAC R-258 to IPL. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

(Continued on next page)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

JULIAN TRANSITION (LAKEE1 • JLI): Via JLI VORTAC R-245 to JLI. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

RAMON TRANSITION (LAKEE1 • RAMON): Via JLI VORTAC R-245 to NKX TACAN 13 DME. Then arc NE of NKX via the 13 DME arc to RAMON. Cross RAMON at 7000 mandatory.

THERMAL TRANSITION (LAKEE1 • TRM): Via JLI VORTAC R-245 to JLI. Then via JLI R-021 to TRM VORTAC. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

SW-3, 14 JAN 2010 to 11 FEB 2010

REDIN-ONE DEPARTURE (REDIN1 • REDIN)

MIRAMAR VORTAC (MIRACHTER FLD) (KNKX)
SAN DIEGO, CALIFORNIA

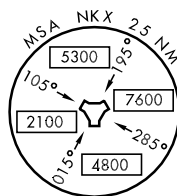
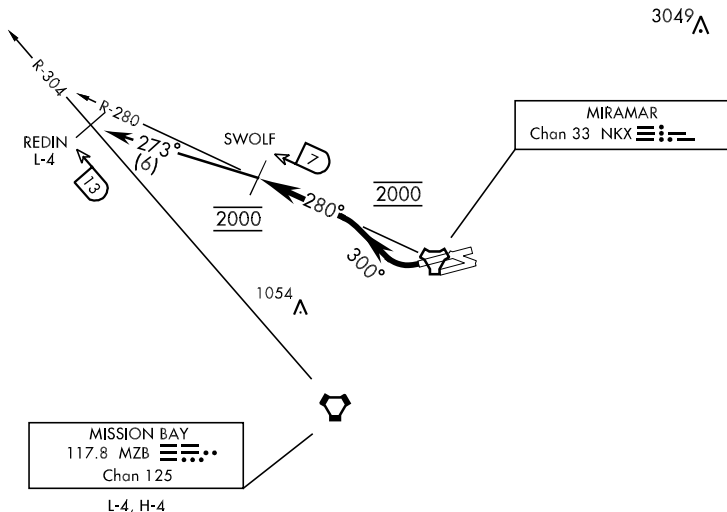
ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SL-903 [USN]

Rwy	Knots	60	120	180	240
24L/R	V/V(fpm)	780	1560	2340	3120

ATC Climb Rate to 2000

RESTRICTED TO CAT A & B ACFT ONLY



EMERG SAFE ALT 100 NM 13,600



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 300° to intercept and proceed via NKX TACAN R-280 to SWOLF. Complete turn within NKX 2 DME. Join NKX R-280 at 2000 mandatory. Cross SWOLF at 2000 mandatory.

REDIN TRANSITION (REDIN1 • REDIN): Turn left heading 273° to intercept MZB VORTAC R-304 at REDIN.

WAAS CH 54028 W24A	APCH CRS 240°	Rwy Idg TDZE Arpt Elev 8001 477 477
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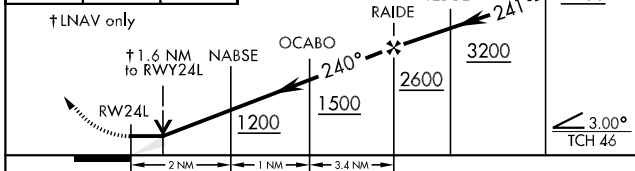
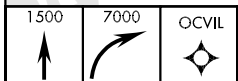
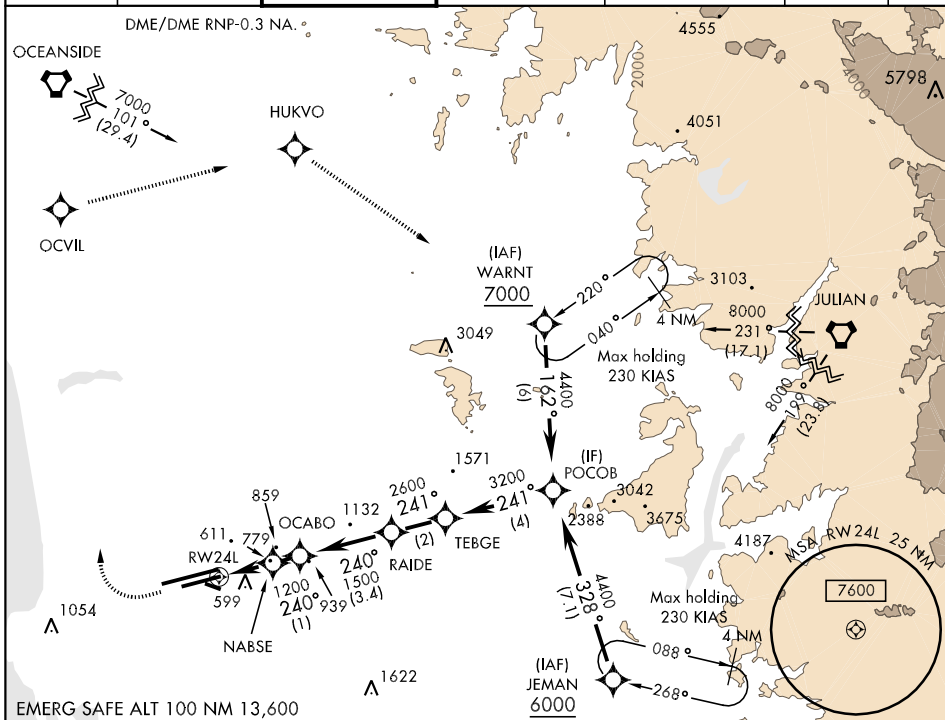
AL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

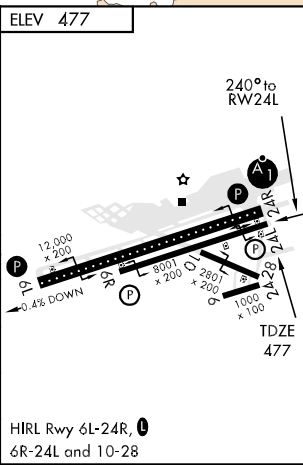
⚠ * Circling not authorized to Rwy 10-28.
For uncompensated BARO-VNAV systems LNAV/VNAV
NA below -15° C (4° F) or above 35° C (95° F)

MISSED APPROACH: Climb to 1500, then climbing right
turn to 7000 direct OCVIL, and right turn via 060° track to
HUKVO and right turn via 110° track to WARNT and hold.

ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR
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CATEGORY	A	B	C	D
LPV DA	677-1	200	(200-1)	
LNAV/VNAV DA	900-1½	423	(500-1½)	
LNAV MDA	1040-1 563 (600-1)		1040-1½ 563 (600-1½)	1040-1¾ 563 (600-1¾)
CIRCLING *	1040-1½ 563 (600-1½)			1160-2¼ 683 (700-2¼)



WAAS CH 61450 W24B	APCH CRS 240°	Rwy Idg 12,000 TDZE 475 Arprt Elev 477
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AL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

▼ * When ALS inop, increase CAT ABCD vis to 1 mile.
 ** When ALS inop, increase CAT ABCD vis to 1½ miles.



MISSED APPROACH: Climb to 1500, then climbing right turn to 7000 direct OCVIL, and right turn via 060° track to HUKVO, and right turn via 110° track to WARNT and hold.

ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR
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*** When ALS inop, increase CAT AB vis to 1 mile,
 CAT C vis to 1½ miles and Cat D vis to 1¾ miles.
 **** Circling not authorized to Rwy 10-28

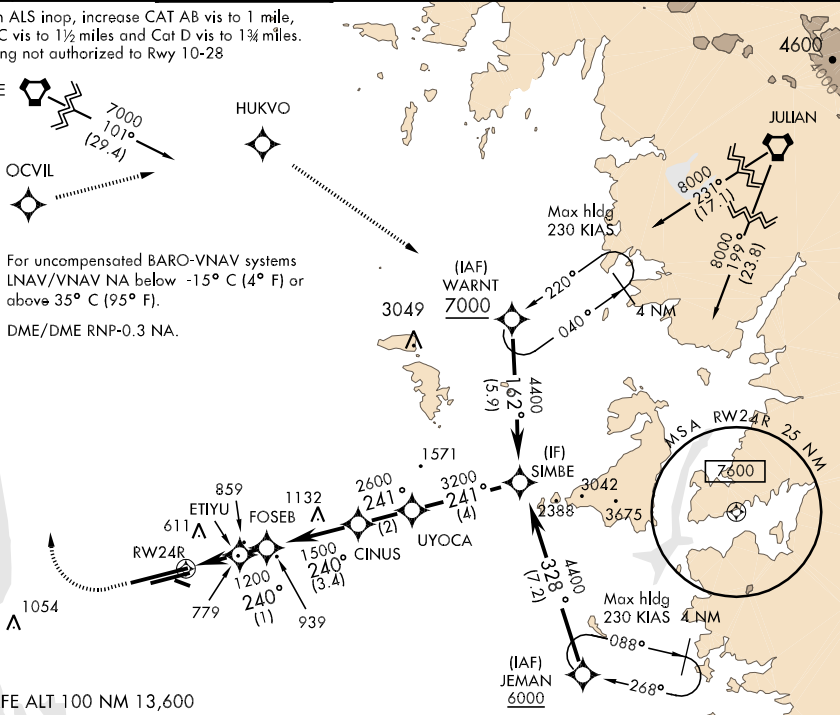
OCEANSIDE

OCVIL

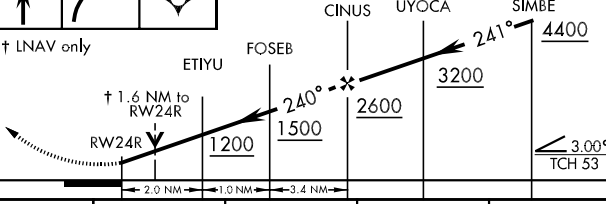
HUKVO

For uncompensated BARO-VNAV systems
 LNAV/VNAV NA below -15° C (4° F) or
 above 35° C (95° F).

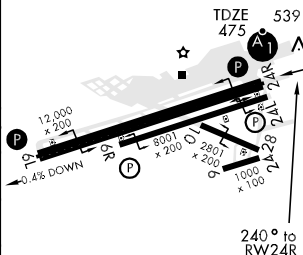
DME/DME RNP-0.3 NA.



EMERG SAFE ALT 100 NM 13,600

1500	7000	OCVIL		
↑				
† LNAV only				
				
	2.0 NM	1.0 NM	3.4 NM	
CATEGORY	A	B	C	D
LPV DA *	675-½		200	(200-½)
LNAV/VNAV DA **	900-1		425	(500-1)
***			1040-1	1040-1¼
LNAV MDA	1040-½	565 (600-½)	565 (600-1)	565 (600-1¼)
****			1160-2¼	
CIRCLING	1040-1½	563 (600-1½)		683 (700-2¼)

ELEV 477



HIRL Rwy 6L-24R, 0
 6R-24L and 10-28

SWOLF-SIX DEPARTURE (SWOLF 6 • SWOLF)

SAN DIEGO, CALIFORNIA

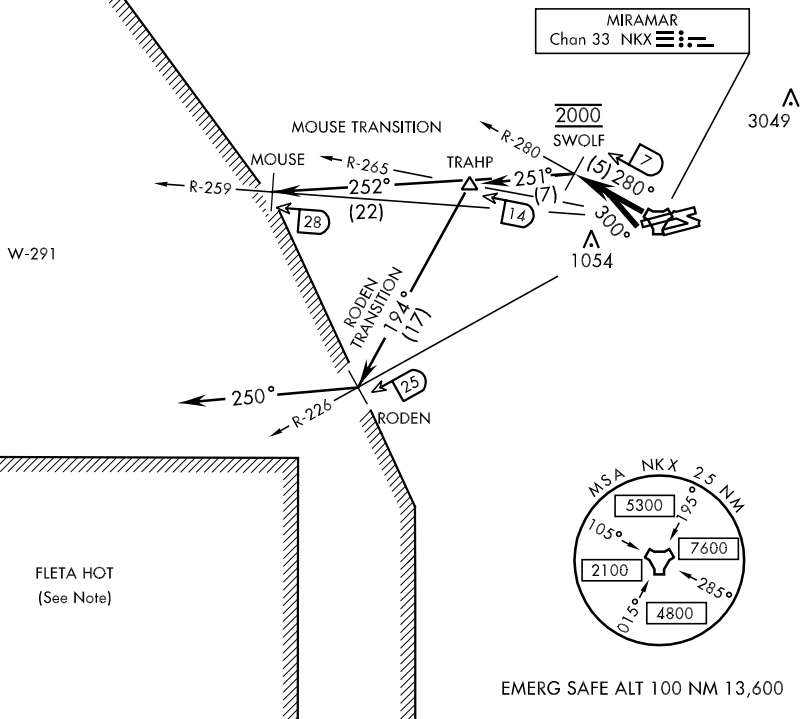
ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
24L/R	V/V(fpm)	780	1560	2340	3120	3900	4680

ATC Minimum Climb Rate to 2000

FOR USE TO W-291 ONLY



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 300° to intercept and proceed via NKX TACAN R-280 to SWOLF. Complete turn within NKX 2 DME. Join NKX R-280 at 2000 mand. Cross SWOLF at 2000 mand. Thence...

MOUSE TRANSITION (SWOLF 6 • MOUSE): Turn left heading 252° to intercept NKX R-259 at MOUSE. Maintain 2000 for entry into W-291.

(Continued on next page)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

RODEN TRANSITION (SWOLF 6 • RODEN): Turn left heading 251° to intercept NKX R-265 at TRAHP. Then turn left heading 194° to intercept NKX R-226 at RODEN. Maintain 2000 for entry into W-291 via heading 250°.

NOTE:

- (1) FLETA HOT-ACTIVE FIRING AREA (DANGER, REMAIN CLEAR).
- (2) ALL AIRCRAFT SHOULD MAINTAIN LAST ASSIGNED HEADING/RADIAL AND ALTITUDE TO AVOID INBOUND MILITARY OR CIVIL AIRCRAFT AT HIGHER ALTITUDES!

SW-3, 14 JAN 2010 to 11 FEB 2010

TINNY-ONE DEPARTURE (TINNY1•TINNY)

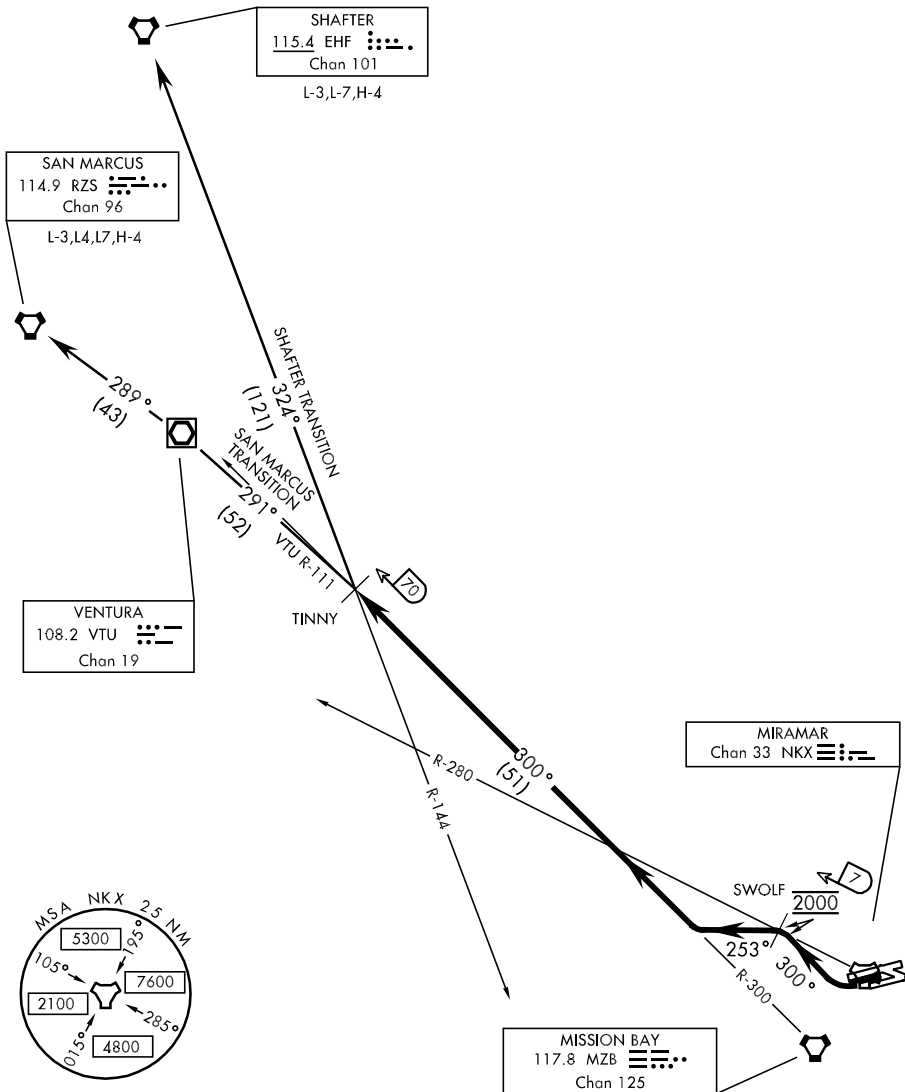
MIRAMAR VORTIS (MIRACHTER FLD) (RWY01)
SAN DIEGO, CALIFORNIA

ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
24L/R	V/V(fpm)	780	1560	2340	3120	3900	4680

ATC Minimum Climb Rate to 2000



EMERG SAFE ALT 100 NM 13,600

NOTE: Chart not to scale

TINNY-ONE DEPARTURE (TINNY1•TINNY)

SAN DIEGO, CALIFORNIA

SW-3, 14 JAN 2010 to 11 FEB 2010

SHL-903 [USN]



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 300° to intercept and proceed via NKX TACAN R-280 to SWOLF. Complete turn within NKX 2 DME. Join NKX R-280 at 2000 mandatory. Cross SWOLF at 2000 mandatory. Then turn left heading 253° to intercept and proceed via MZB VORTAC R-300 to TINNY INT. Thence...

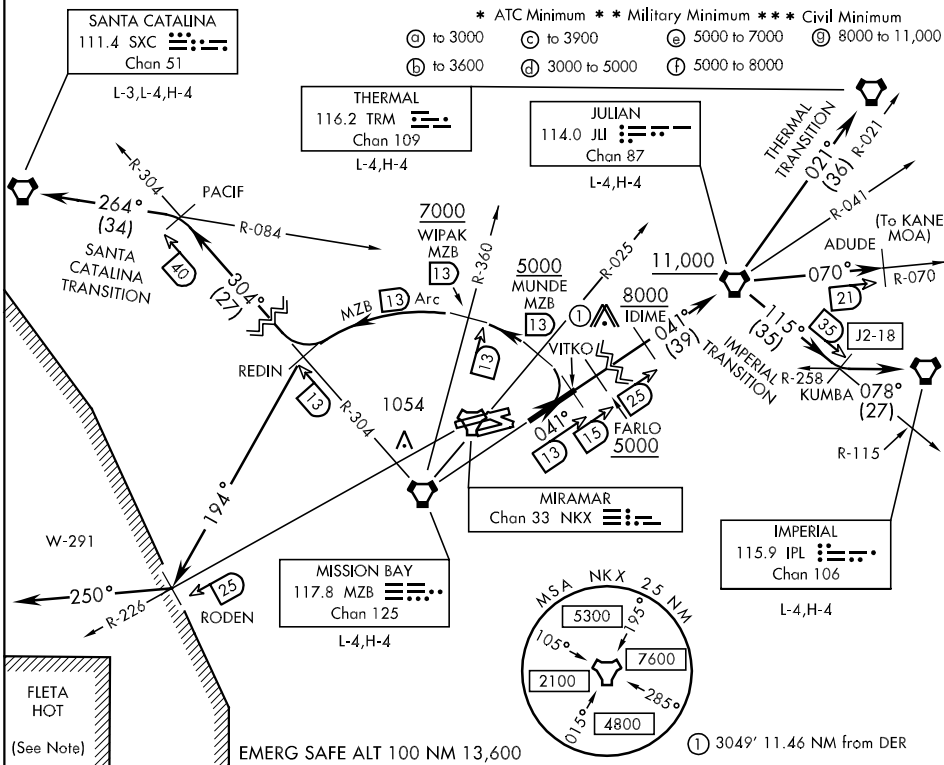
SAN MARCUS TRANSITION (TINNY1•RZS): Via VTU VOR/DME R-111 to VTU, then via RZS VORTAC R-109 to RZS.

SHAFTER TRANSITION (TINNY1 • EHF): Via EHF VORTAC R-144 to EHF.

SAN DIEGO, CALIFORNIA

Rwy	Knots	60	120	180	240	300	360
* 6L/R _(a)	V/V(fpm)	520	1040	1560	2080	2600	3120
** 6L/R _(b)	V/V(fpm)	280	560	840	1120	1400	1680
*** 6L/R _(c)	V/V(fpm)	300	600	900	1200	1500	1800
* 6L/R _(d)	V/V(fpm)	680	1360	2040	2720	3400	4080
* 6L/R _(e)	V/V(fpm)	353	706	1059	1412	1765	2118
* 6L/R _(f)	V/V(fpm)	300	600	900	1200	1500	1800
* 6L/R _(g)	V/V(fpm)	220	440	660	880	1100	1320

(a) to 3000 (c) to 3900 (e) 5000 to 7000 (g) 8000 to 11,000
(b) to 3600 (d) 3000 to 5000 (f) 5000 to 8000



T

IMPERIAL TRANSITION (VITKO1 • IPL): Via MZB R-041 to JLI VORTAC. Then via JLI R-115 to KUMBA INT, then via IPL VORTAC R-258 to IPL. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000.

(Continued on next page)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

RODEN TRANSITION (VITKO1 • RODEN): Arc N of MZB VORTAC via the 13 mile arc to REDIN. Then turn left heading 194° to intercept NKX R-226 at RODEN. Then turn right heading 250° for entry into W-291. Cross MUNDE at or above 5000. Cross WIPAK at or above 7000.

SANTA CATALINA TRANSITION (VITKO1 • SXC): Arc N of MZB VORTAC via the 13 mile arc to REDIN. Then via MZB R-304 to PACIF INT. Then via SXC R-084 to SXC VORTAC. Cross MUNDE at or above 5000. Cross WIPAK at or above 7000.

THERMAL TRANSITION (VITKO1 • TRM): Via MZB R-041 to JLI VORTAC. Then via JLI R-021 to TRM VORTAC. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000.

NOTE:

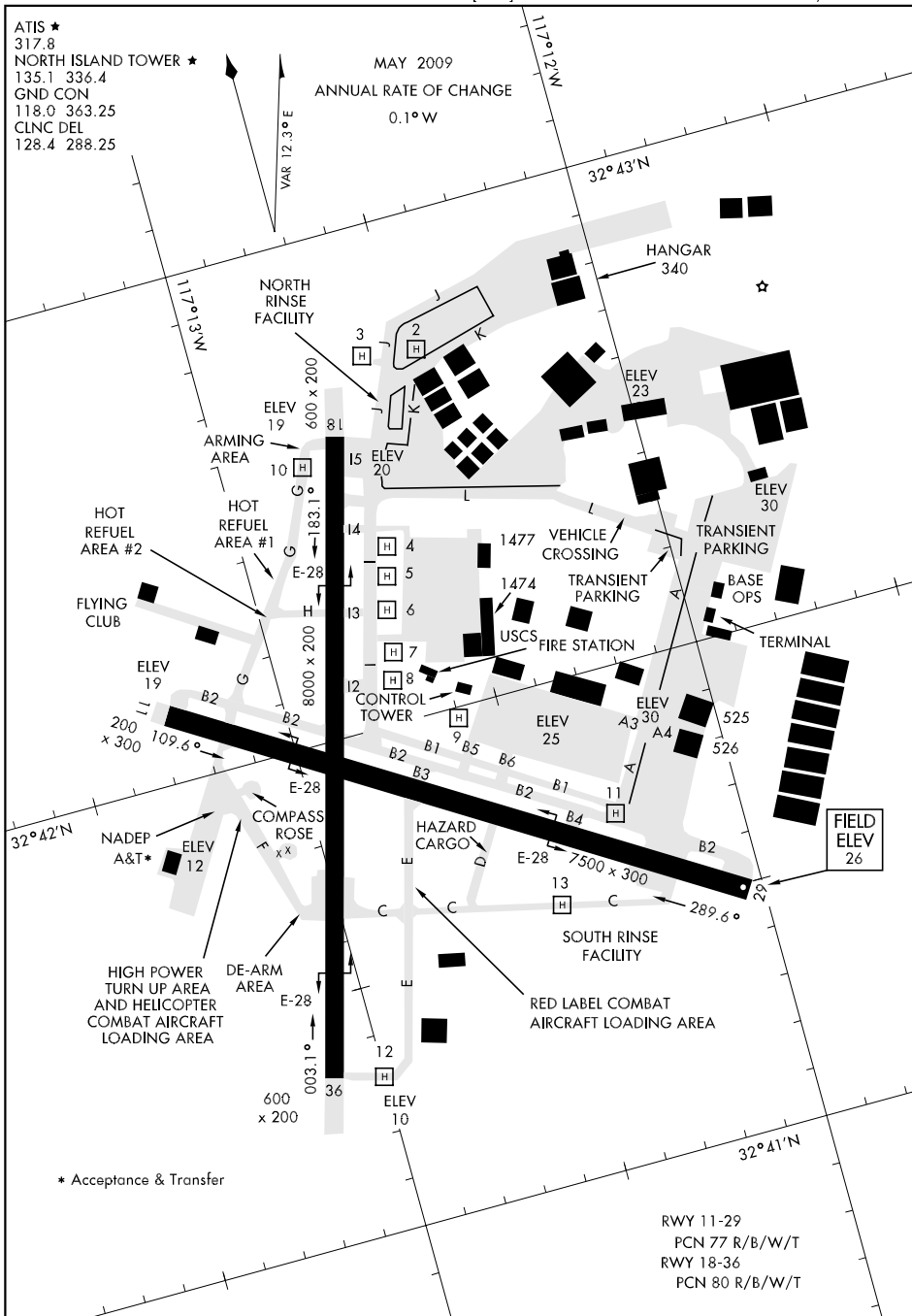
- (1) FLETA HOT-ACTIVE FIRING AREA (DANGER, REMAIN CLEAR).
- (2) ALL AIRCRAFT SHOULD MAINTAIN LAST ASSIGNED HEADING/RADIAL AND ALTITUDE TO AVOID INBOUND MILITARY OR CIVIL AIRCRAFT AT HIGHER ALTITUDES!

SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS ★
317.8
NORTH ISLAND TOWER ★
135.1 336.4
GND CON
118.0 363.25
CLNC DEL
128.4 288.25

MAY 2009
ANNUAL RATE OF CHANGE
0.1° W

SW-3, 14 JAN 2010 to 11 FEB 2010



* Acceptance & Transfer

BARET FOUR ARRIVAL

ST-373 (FAA)

SAN DIEGO, CALIFORNIA

SOCAL APP CON
124.35 279.625
LUNDBERGH ATIS
134.8
NORTH ISLAND ATIS
317.8



NOTE: RADAR and DME required on TNP, EED, and PKE transitions.

NOTE: When SAN arrivals are using Rwy 9, aircraft can expect to depart and re-enter the TCA southwest of PGY VORTAC.

TURBOJET VERTICAL NAVIGATION

PLANNING INFORMATION

TNP, EED and PKE transitions expect to cross Saltn Int at or below FL 240, expect to cross 225 NM northeast of the PGY VORTAC at 12000.

OCEANSIDE
115.3 OCN
Chan 100

LOCALIZER 111.55
I-SAN
Chan 52 (Y)

MISSION BAY
17.8 MZB
Chan 125

LOCALIZER 110.9
I-UBR

Chan 46	SWATT
	N32°40.75'
	W114°57.8'

Diagram of North Island NAS (Halsey Field) showing Runway 27 and the approach path.

N32°41.70'
W117°23.03'

(21)

0.43

POGGI
2.8 PGY

iii

27

N32° 44.93

N32° 44.93' - W111° 1-4 H-4

4.93' - W115°30.51'

N32° 44.93' - V

GGI
PGY

109.8

NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-3 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

IMPERIAL TRANSITION (IPL.BARET4): From over IPL VORTAC via IPL R-258 and MZB R-076 to BARET INT. Thence....

NEEDLES TRANSITION (EED.BARET4): From over EED VORTAC via EED R-208 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

PARKER TRANSITION (PKE.BARET4): From over PKE VORTAC via PKE R-227 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.BARET4): From over TNP VORTAC via TNP R-179 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to PGY VORTAC. Thence....

....WHEN SAN ARRIVALS USING RWY 9: Via PGY R-043 to PGY VORTAC, then via PGY R-270 to intercept the OCN R-162, then via OCN R-162 to SARGS INT. Expect ILS Rwy 9 approach to SAN or ILS-A approach to NZY.

....WHEN SAN ARRIVALS USING RWY 27: Via PGY R-043 to intercept I-UBR localizer, then via I-UBR localizer to SWATT INT. Expect LOC Rwy 27 approach to SAN or LOC-A approach to NZY.

LOST COMMUNICATIONS: In the event of lost communications, North Island arrival shall execute the TACAN Rwy 29 or Rwy 36.

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

MISSED APPROACH: Climbing to left turn to 2000 via NZY TACAN R-175 to QCABI. Arc S on the NZY 9 DME arc to OBIME, then via NZY R-205 to SKATE and hold.

TACAN NZY Chan 117	APCH CRS 358°	Rwy ldg TDZE Arprt Elev 8000 19 26
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JAL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

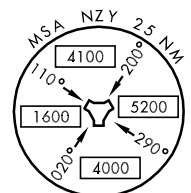
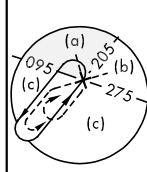
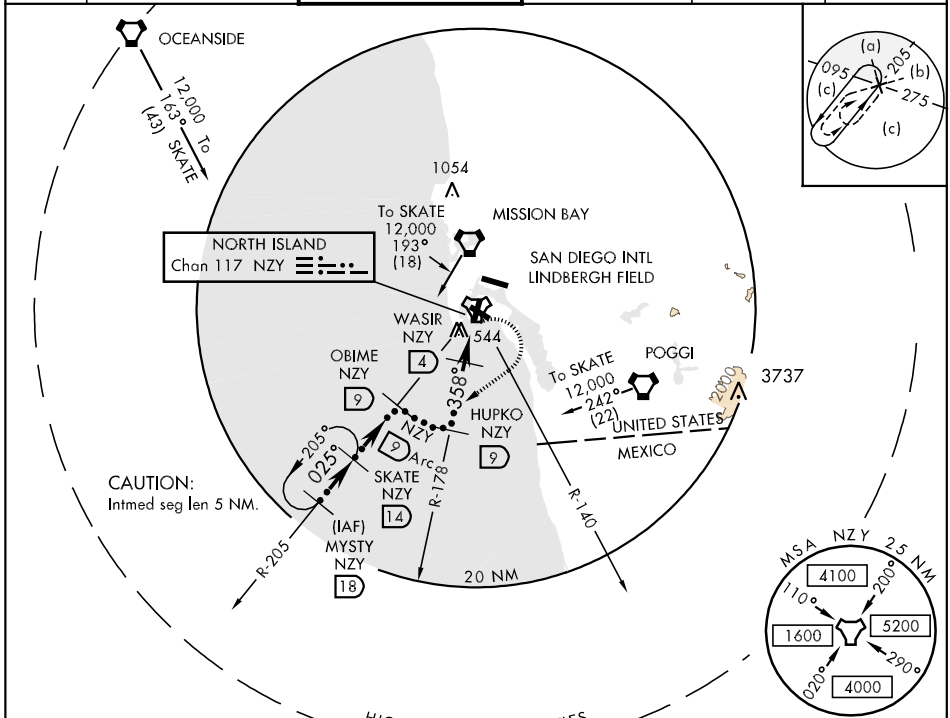
▼ * When ALS inop, increase vis CAT C to 2 ¼ miles,
CAT D to 2 ½ miles, CAT E to 2 ¾ miles.
** When ALS inop, increase vis CAT CDE to ½ mile.

SALSF



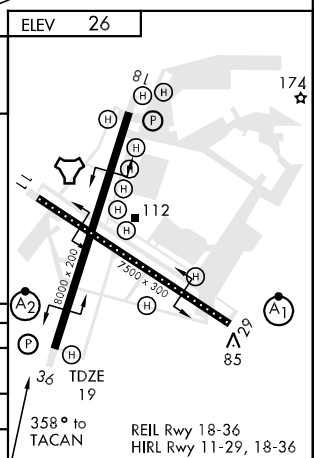
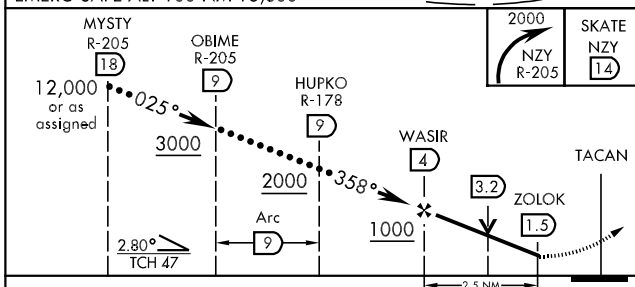
MISSED APPROACH: Climbing right turn to 2000
intercept the NZY TACAN R-205 to SKATE and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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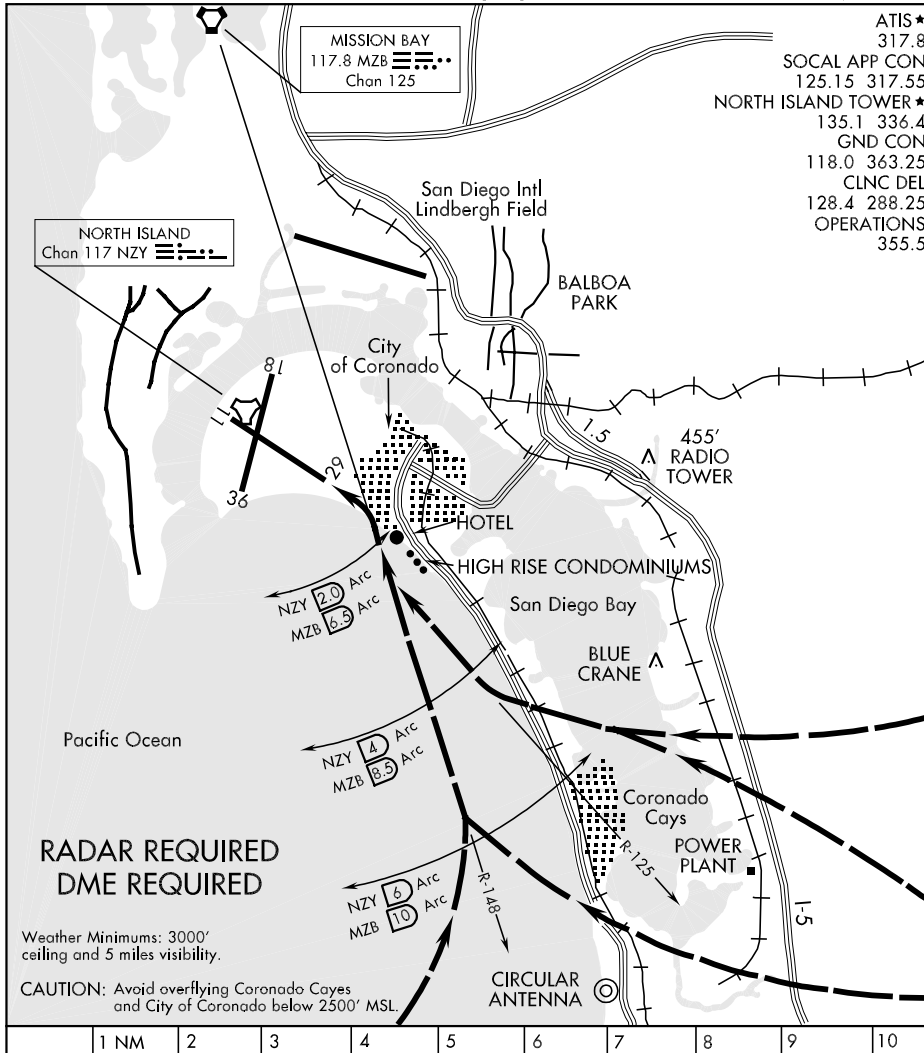


EMERG SAFE ALT 100 NM 13,600

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-36 *	800-2 781 (800-2)	800-2 ¼ 781 (800-2 ¼)	800-2 ½ 781 (800-2 ½)
CIRCLING	NOT AUTHORIZED		
S-PAR 36 **	119-¼	100 (100-¼)	GS 3.00°



HOTEL VISUAL RWY 29

Aircraft avoid overflying Coronado Cays and City of Coronado below 2500' MSL.
Proceed visually via the NZY R-125 or MZB R-148 until reaching NZY 2 DME /
MZB 6.5 DME, then maneuver to runway centerline for straight-in Runway 29.

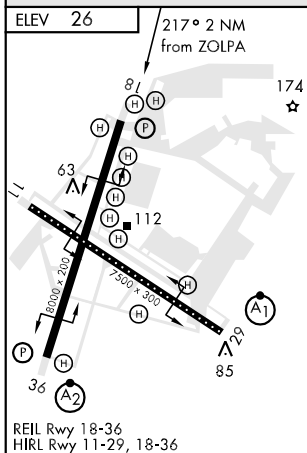
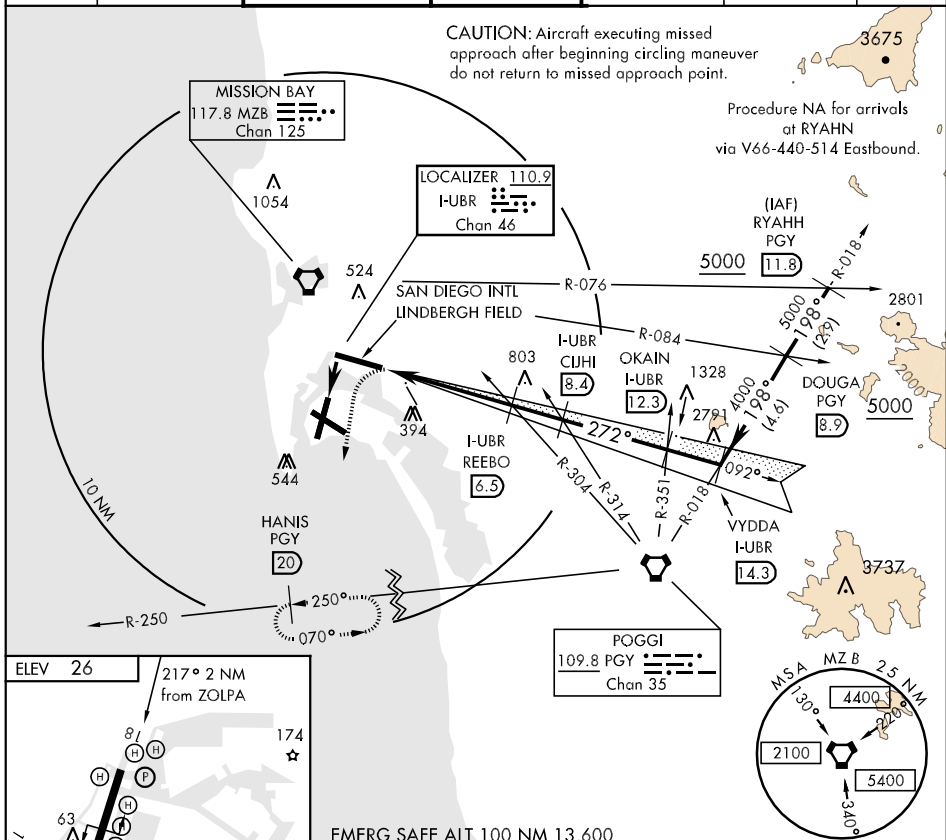
ATIS ★
317.8
SOCAL APP CON
125.15 317.55
NORTH ISLAND TOWER ★
135.1 336.4
GND CON
118.0 363.25
CLNC DEL
128.4 288.25
OPERATIONS
355.5

LOC I-UBR 110.9 Chan 46	APCH CRS 272°	Rwy Idg TDZE Arpt Elev N/A 26	AL-374 [USN]	NORTH ISLAND NAS (HALSEY FIELD) (KNZY)		
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▼ **CAUTION:** Maneuvering for circling approach not authorized W of Rwy 18-36 centerline. Approach authorized for Rwy 18 or left downwind approach to Rwy 29 after flying down Rwy 18.

MISSED APPROACH: Climb and maintain 2000 via hdg 175°, intercept PGY VORTAC R-250 to HANIS and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	LINDBERGH TOWER 118.3 270.9	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

EMERG SAFE ALT 100 NM 13,600

2000 hdg 175°	PGY R-250	HANIS PGY 20	REEBO PGY R-304 I-UBR 6.5	CIJHI PGY R-314 I-UBR 8.4	OKAIN PGY R-351 I-UBR 12.3	VYDDA PGY R-018 I-UBR 14.3	
visual to airport 217° 2 NM			272°				
ZOLPA I-UBR 1.3			3600				
5.2 NM			2400				
1800			4000				
CATEGORY	A		B		C		D
CIRCLING*	860-2½		834 (900-2½)		860-2¾		834 (900-2¾)

LOC I-SAN 111.55 Chan 52 (Y)	APCH CRS 092°	Rwy Idg TDZE Arpt Elev N/A 26
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AL-374 [USN]

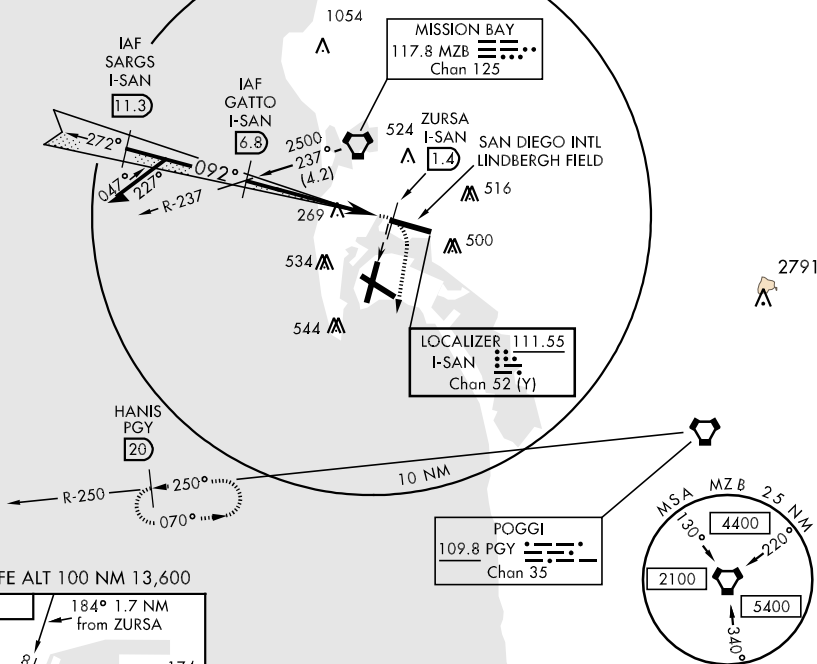
NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

▼ ***CAUTION:** Maneuvering for circling approach not authorized W of Rwy 18-36 centerline. Approach authorized for Rwy 18 or left downwind approach to Rwy 29 after flying down Rwy 18.

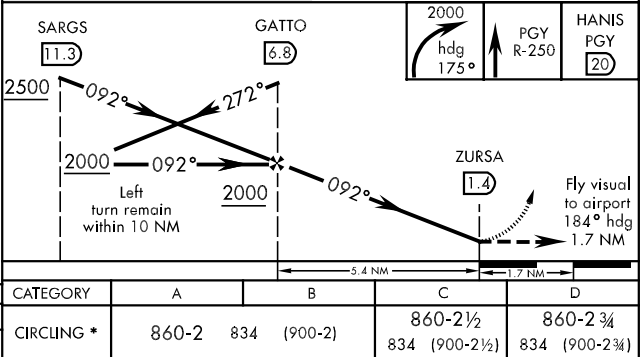
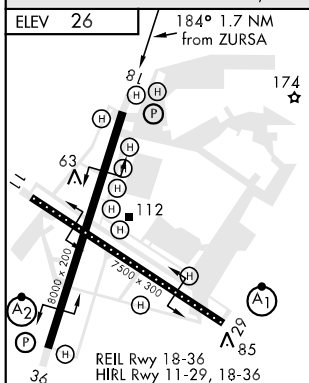
MISSED APPROACH: Climb and maintain 2000 via hdg 175°, intercept PGY VORTAC R-250 to HANIS and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	LINDBERGH TOWER 118.3 270.9	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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CAUTION: Aircraft executing missed approach after beginning circling maneuver do not return to missed approach point.



EMERG SAFE ALT 100 NM 13,600



NASNI-FIVE DEPARTURE (NASNI 5 • NASNI)

SHL-374 [USN]

SAN DIEGO, CALIFORNIA

ATIS ★
317.8
CLNC DEL
128.4 288.25
GND CON
118.0 363.25
NORTH ISLAND TOWER ★
135.1 336.4
SOCAL DEP CON
125.15 317.55

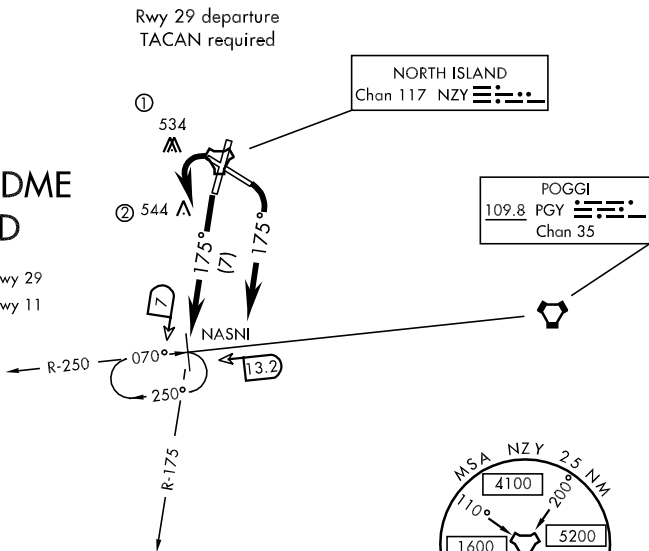
Minimum Climb Rate

Rwy	Knots	60	120	180	240	300	360
11 (a)	V/V(fpm)	265	530	795	1060	1325	1590
11 (b)	V/V(fpm)	290	580	870	1160	1450	1740
29 (c)	V/V(fpm)	410	820	1230	1640	2050	2460
29 (d)	V/V(fpm)	480	960	1440	1920	2400	2880

- (a) Military climb to 700 or 600-2¼ authorized in lieu of climb rate.
- (b) Civil climb to 700 or 600-2¼ authorized in lieu of climb rate.
- (c) Military climb to 400 or 600-2½ authorized in lieu of climb rate.
- (d) Civil climb to 500 or 600-2½ authorized in lieu of climb rate.

RADAR and DME REQUIRED

- ① 1.4 NM from DER Rwy 29
- ② 2.4 NM from DER Rwy 11



LOST COMMUNICATIONS: If no transmissions are received prior to crossing the PGY VORTAC R-250 Southbound, turn direct on PGY R-250 to NASNI and hold as published, if no transmissions received within five minutes after entering holding, proceed on course, climb to filed altitude.

EMERG SAFE ALT 100 NM 13,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 11: Immediate climbing right turn to 2000 via heading 175°, remain within NZY TACAN 1.4 DME to not overfly the City of Coronado, thence...

TAKE-OFF RWY 18: Climb to 2000 via heading 175°, thence

TAKE-OFF RWY 29: Immediate climbing left turn to 2000, remain within NZY TACAN 1 DME to not overfly Point Loma, intercept the NZY R-175 to NASNI, thence...

Expect radar vector to join assigned route.

APCH CRS **355°** Rwy Ldg **8000**
 TDZE **19**
 Arpt Elev **26**

AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

▼ * When ALS inop, increase vis CAT ABCD to 1 1/4 miles.

SALSF

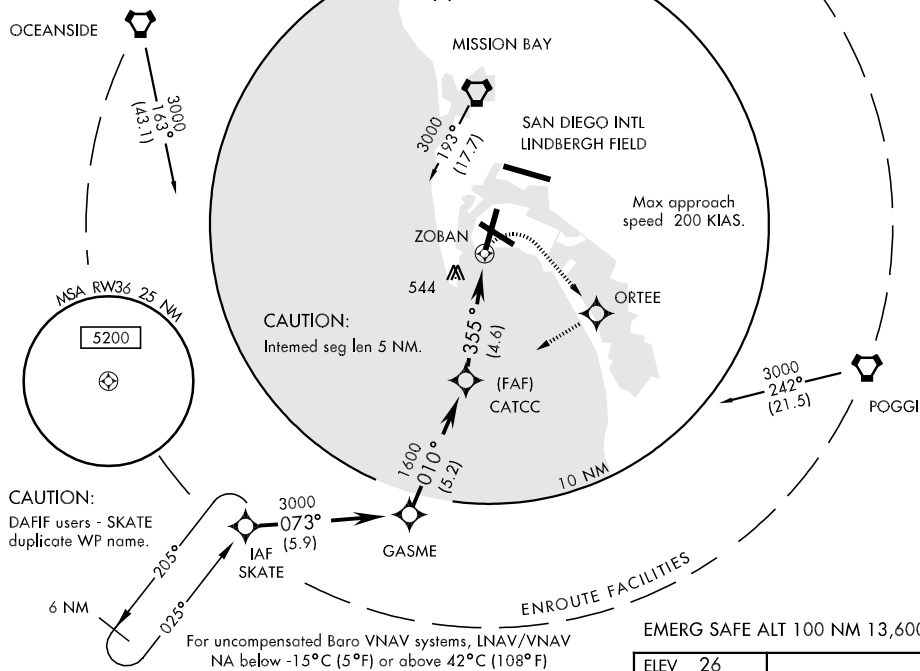


MISSED APPROACH: Climbing right turn to 2000 direct ORTEE, then turn right via track 226° to SKATE and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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*** When ALS inop, increase vis CAT ABCD to 1/2 mile.

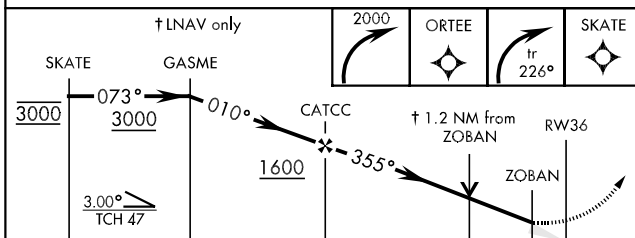
DME/DME RNP-0.3 NA.



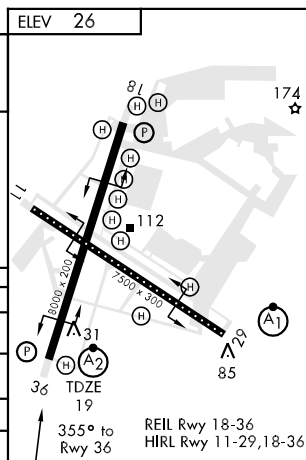
CAUTION:
DAFIF users - SKATE
duplicate WP name.

For uncompensated Baro VNAV systems, LNAV/VNAV
 NA below -15°C (5°F) or above 42°C (108°F)

EMERG SAFE ALT 100 NM 13,600



CATEGORY	A	B	C	D
LNAV/VNAV DA *	380-1		361	(400-1)
LNAV MDA **	460-3/4	441 (500-3/4)	441 (500-1)	460-1 1/4 (500-1 1/4)
CIRCLING	NOT AUTHORIZED			
S-PAR 36 ***	119-1/4	100 (100-1/4)	GS 3.00°	



TACAN NZY Chan 117	APCH CRS 296°	Rwy Idg 7500 TDZE 26 Arpt Elev 26
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AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

T * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1½ miles, CAT D to 1¾ miles.
** When ALS inop, increase vis CAT ABCD to 1 mile.



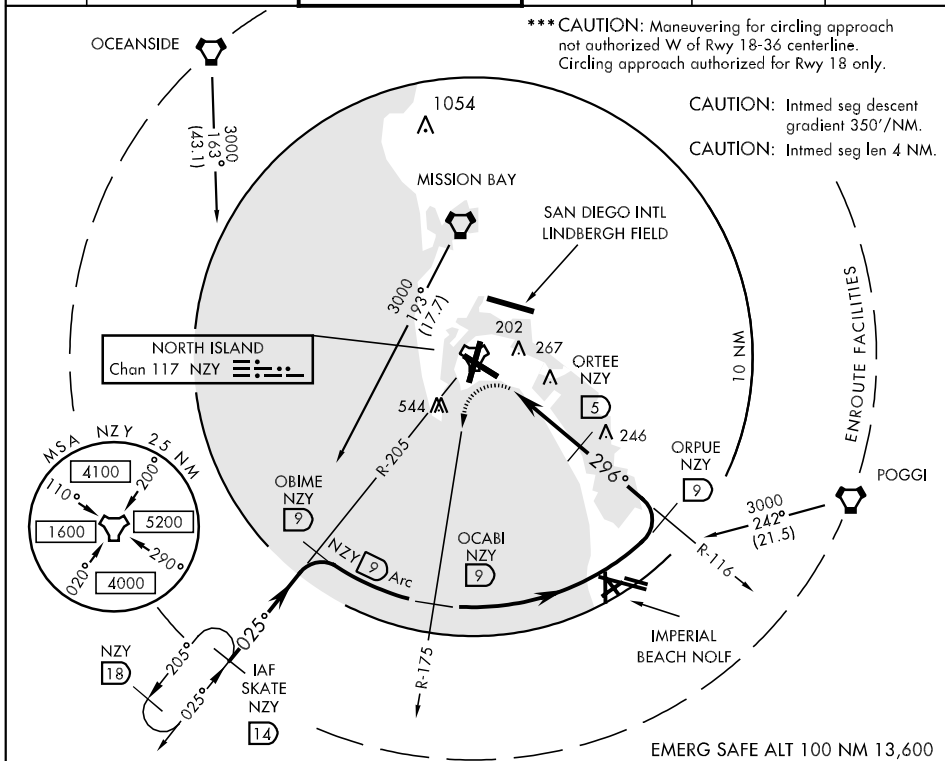
MISSED APPROACH: Climbing left turn to 2000 via NZY TACAN R-175 to OCAB. Arc S on NZY 9 DME arc to OBIME, then via NZY R-205 to SKATE and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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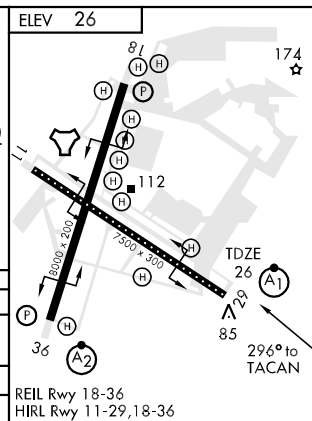
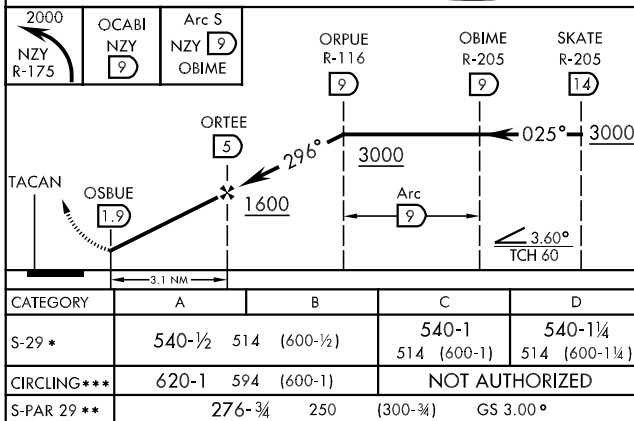
***CAUTION: Maneuvering for circling approach
not authorized W of Rwy 18-36 centerline.
Circling approach authorized for Rwy 18 only.

CAUTION: Intmed seg descent
gradient 350'/NM.

CAUTION: Intmed seg len 4 NM.



EMERG SAFE ALT 100 NM 13,600



SAN DIEGO, CALIFORNIA

32°42'N-117°13'W

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

Amdt 1 09127

TACAN 15 MAY 00

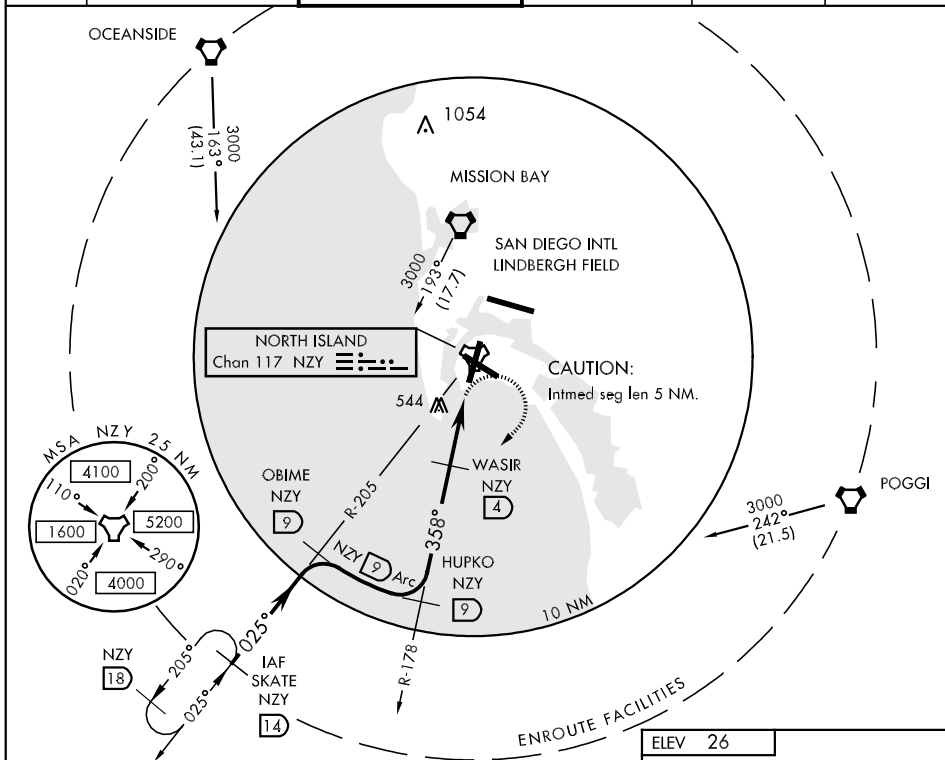
TACAN NZY Chan 117	APCH CRS 358°	Rwy ldg 8000 TDZE 19 Arpt Elev 26
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AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

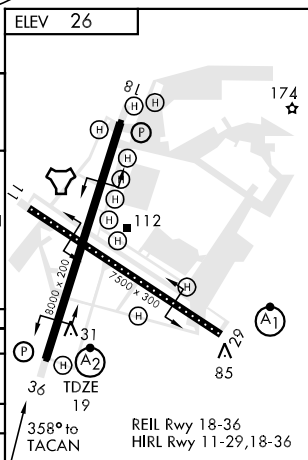
▼ * When ALS inop, increase vis CAT A to 1 mile, CAT B to 1½ miles, CAT C to 2¼ miles, CAT D to 2½ miles. ** When ALS inop, increase vis CAT ABCD to ½ mile.	SALSF A2	MISSED APPROACH: Climbing right turn to 2000 intercept the NZY TACAN R-205 to SKATE and hold.
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ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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EMERG SAFE ALT 100 NM 13,600

				2.5 NM					
CATEGORY	A		B		C		D		
S-36 *	800-¾ 781 (800-¾)		800-1 781 (800-1)		800-2 781 (800-2)		800-2¼ 781 (800-2¼)		
CIRCLING	NOT AUTHORIZED								
S-PAR 36 **	119-¾		100 (100-¼)		GS 3.00°				



VORTAC PGY 109.8 Chan 35	APCH CRS 279°	Rwy Idg 7500 TDZE 26 Arpt Elev 26
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AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

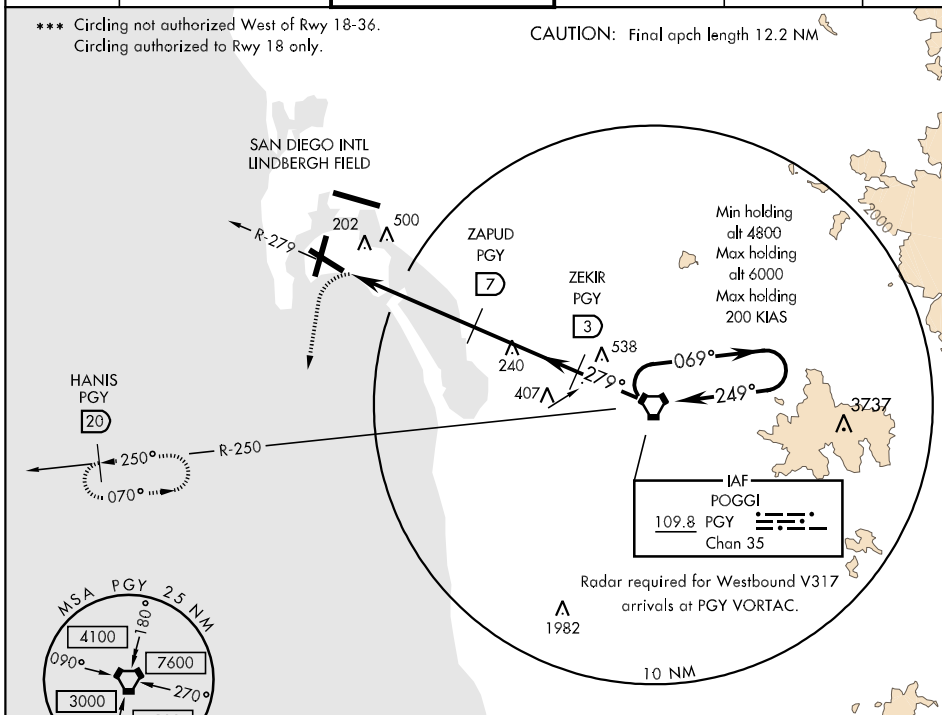
▽ * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles. ** When ALS inop, increase vis CAT ABCD to 1 mile.	ALSF-1 (A1)
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MISSED APPROACH: Climbing left turn to 2000 via hdg 175° intercept PGY VORTAC R-250 to HANIS and hold.

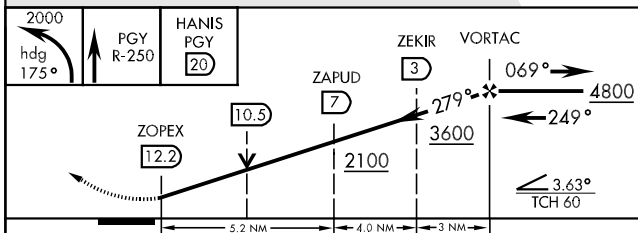
ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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*** Circling not authorized West of Rwy 18-36.
Circling authorized to Rwy 18 only.

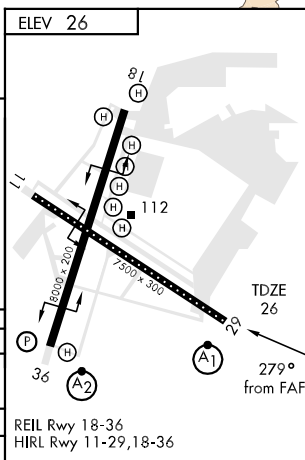
CAUTION: Final apch length 12.2 NM



EMERG SAFE ALT 100 NM 13,600



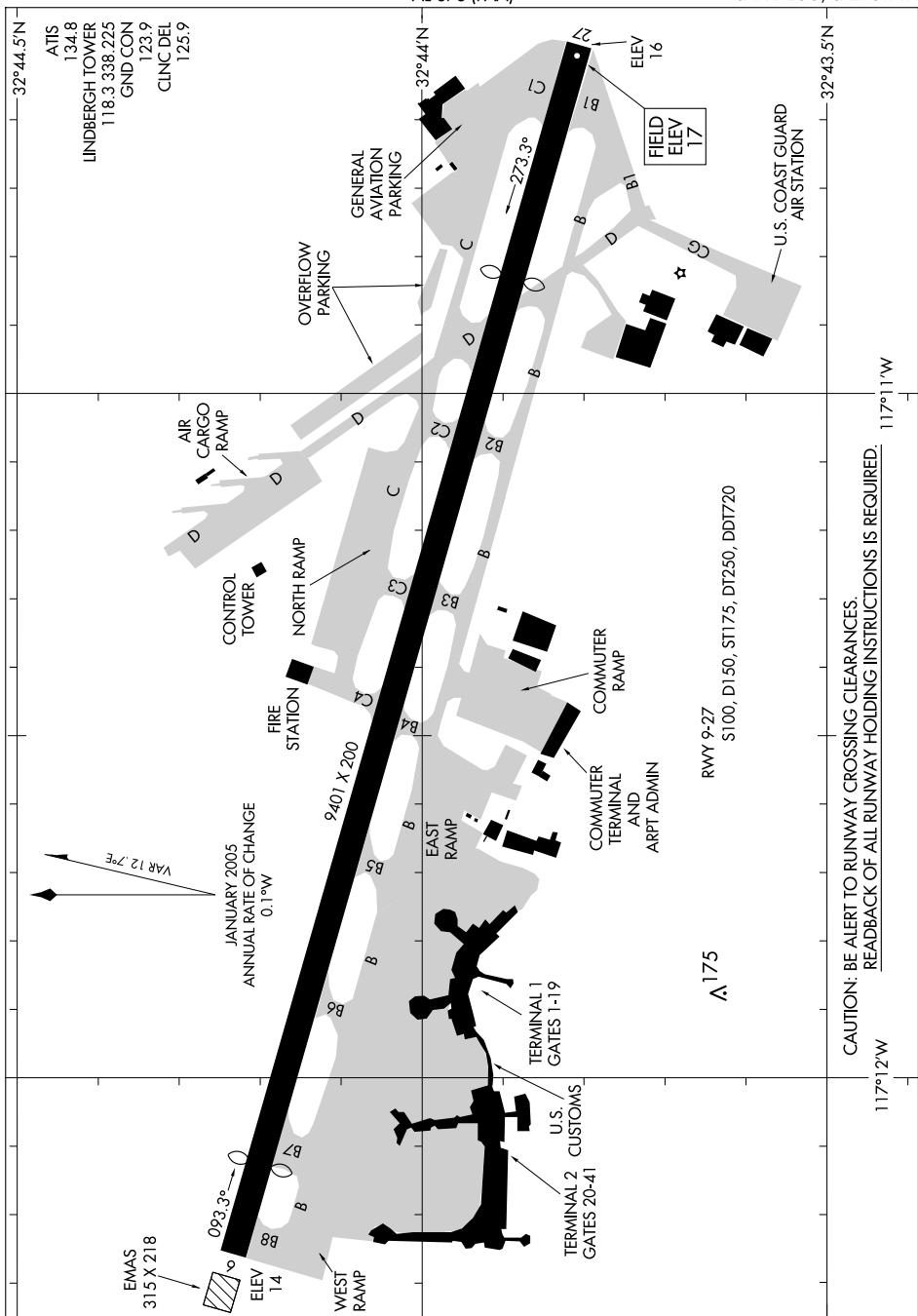
CATEGORY	A	B	C	D
S-29 *	640-½ 614 (700-½)		640-1¼ 614 (700-1¼)	640-1½ 614 (700-1½)
CIRCLING***	640-1 614 (700-1)		NOT AUTHORIZED	
S-PAR 29 **	276-¾	250	(300-¾)	GS 3.00°



AIRPORT DIAGRAM

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

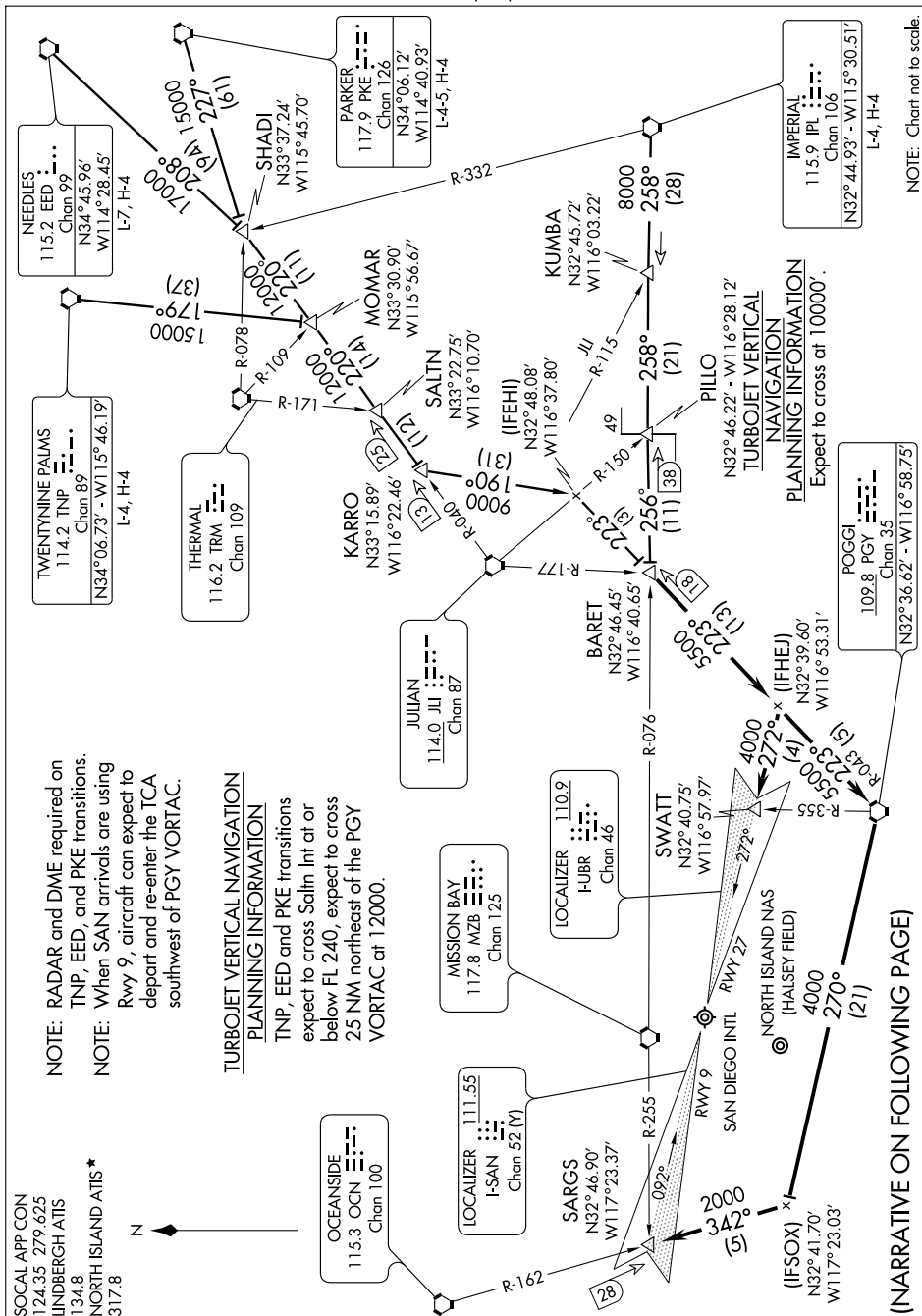


CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

BARET FOUR ARRIVAL

ST-373 (FAA)

SAN DIEGO, CALIFORNIA



ARRIVAL DESCRIPTION

IMPERIAL TRANSITION (IPL.BARET4): From over IPL VORTAC via IPL R-258 and MZB R-076 to BARET INT. Thence....

NEEDLES TRANSITION (EED.BARET4): From over EED VORTAC via EED R-208 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

PARKER TRANSITION (PKE.BARET4): From over PKE VORTAC via PKE R-227 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.BARET4): From over TNP VORTAC via TNP R-179 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to PGY VORTAC. Thence....

....WHEN SAN ARRIVALS USING RWY 9: Via PGY R-043 to PGY VORTAC, then via PGY R-270 to intercept the OCN R-162, then via OCN R-162 to SARGS INT. Expect ILS Rwy 9 approach to SAN or ILS-A approach to NZY.

....WHEN SAN ARRIVALS USING RWY 27: Via PGY R-043 to intercept I-UBR localizer, then via I-UBR localizer to SWATT INT. Expect LOC Rwy 27 approach to SAN or LOC-A approach to NZY.

LOST COMMUNICATIONS: In the event of lost communications, North Island arrival shall execute the TACAN Rwy 29 or Rwy 36.

ATIS 134.8
 CLNC DEL 125.9
 GND CON 123.9
 LINDBERGH TOWER
 118.3 338.225
 SOCIAL DEP CON
 RWY 27 125.15 317.55
 RWY 9 124.35 279.625

MISSION BAY
117.8 MZB 
Chan 125

JULIAN
114.0 JUL : : : -
Chan 87
N33°08.43' - W116°35.16'
L-4, H-4

IMPERIAL
115.9 IPL $\ddot{::}::$
Chan 106
N32°44.93' - W115°30.51'
L-4, H-4

POGGI
109.8 PGY 
Chan 35
N32°36.62' - W116°58.75'

NOTE: Runway 9- RADAR REQUIRED.

NOTE: Runway 27- DME REQUIRED.

TAKE-OFF MINIMUMS

Rwy 9, 300-1 with minimum climb of 610' per NM to 1900.

Rwy 27, 300-1½ or standard with minimum climb of 317' per NM to 400.

TAKE-OFF NOTES

Rwy 9: Trees 792 feet from departure end of runway, 142 feet left of centerline, 60' AGL/99' MSL.

Antenna 740 feet from departure end of runway, 302 feet right of centerline, 62' AGL/82' MSL.

Antenna 1946 feet from departure end of runway, 969 feet left of centerline, 126' AGL/192' MSL.

Trees 1377 feet from departure end of runway, 285 feet left of centerline, 80' AGL/135' MSL.

Trees 4625 feet from departure end of runway, 1414 feet left of centerline, 250' AGL/385' MSL.

Rwy 27: Trees 1 mile from departure end of runway, 685 feet right of centerline, 220' AGL/253' MSL.

Flagpole 2511 feet from departure end of runway, 700 feet left of centerline, 90' AGL/116' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

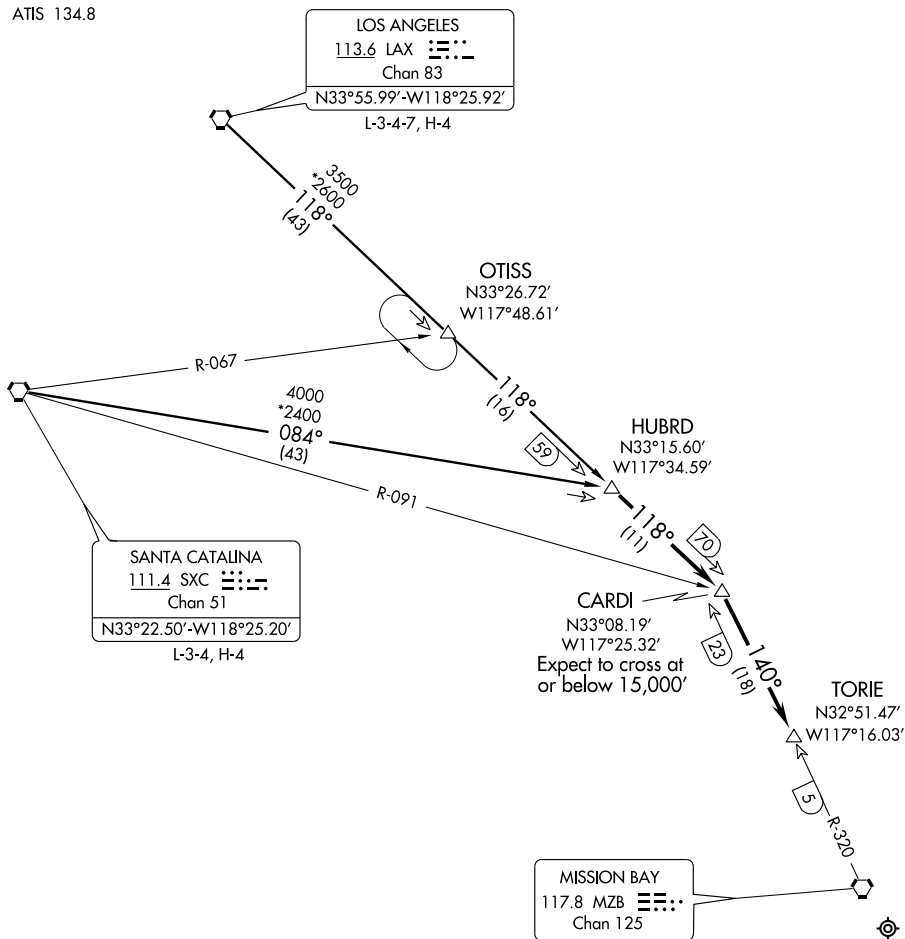
TAKE-OFF RUNWAY 9: Climb via heading 090° to intercept and proceed via MZB R-096 to BROWS INT. Then via (transition) or (assigned route). Maintain assigned altitude.

TAKE-OFF RUNWAY 27: Climb via heading 275° until PGY 19 DME, then turn left via heading 120° to intercept and proceed via PGY R-260 and R-069 to BROWS INT. Then via (transition) or (assigned route). Maintain assigned altitude.

IMPERIAL TRANSITION (BRDR5.IPL): From over BROWS INT via PGY R-069 and IPL R-250 to IPL VORTAC.

JULIAN TRANSITION (BRDR5.JLI): From over BROWS INT via JLI R-182 to JLI VORTAC.

SOCAL APP CON
125.3 290.4
ATIS 134.8



NOTE: Chart not to scale.

LOS ANGELES TRANSITION (LAX.HUBRD1): From over LAX VORTAC via LAX R-118 to OTISS INT, then via LAX R-118 to HUBRD INT. Thence . . .

SANTA CATALINA TRANSITION (SXC.HUBRD1): From over SXC VORTAC via SXC R-084 to HUBRD INT. Thence . . .

. . . From over HUBRD INT via LAX R-118 to CARDI FIX via MZB R-320 to TORIE FIX. Expect vector to final approach course.

LOC/DME I-SAN 111.55 Chan 52(Y)	APP CRS 092°	Rwy Idg 8701 TDZE 17 Apt Elev 17
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ILS or LOC RWY 9
SAN DIEGO INTL (SAN)

T	Inoperative table does not apply.	MALSR
A		

MALSR

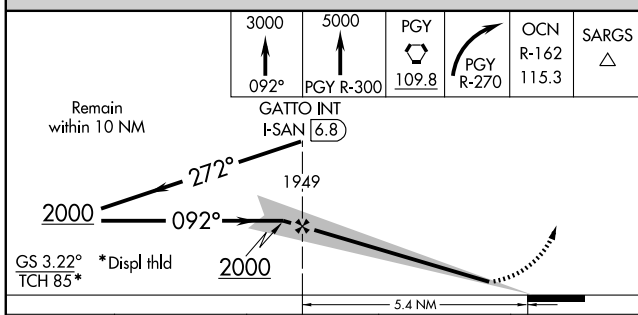
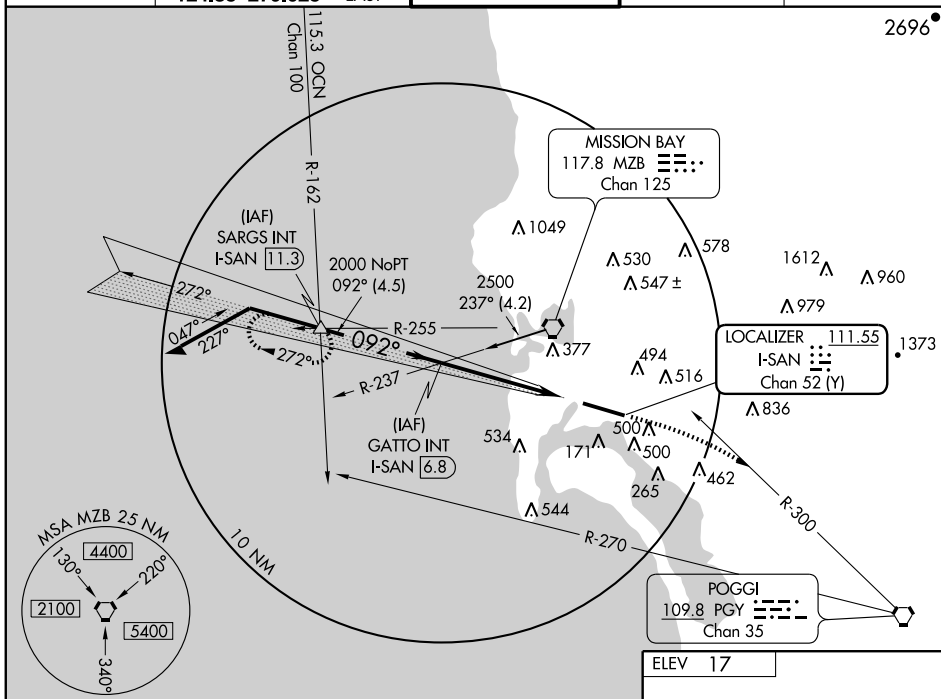
MISSED APPROACH: Climb to 3000 via heading 092° until intercepting PGY R-300, then continue climb to 5000 via PGY R-300 to PGY VORTAC. Then right turn via PGY R-270 to intercept OCN R-162 to SARGS Int and hold.

ATIS 134.8	SOCAL APP CON 119.6 363.1 WEST 124.35 279.625 EAST
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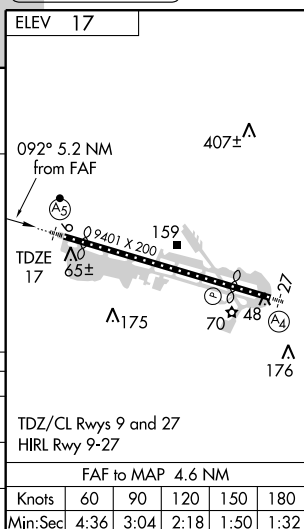
LINDBERGH TOWER
118.3 338.225

GND CON
123.9

CLNC DEL
125.9



CATEGORY	A	B	C	D
S-ILS 9	353/50 336 (400-1)			
S-LOC 9	540/50 526 (600-1)		540-1½ 526 (600-1½)	540-1¾ 526 (600-1¾)
CIRCLING	820-1 803 (900-1)	820-1¼ 803 (900-1¼)	820-2¼ 803 (900-2¼)	820-2½ 803 (900-2½)





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climb runway heading to 4000', then turn left via heading 275° to intercept and proceed via MZB R-314 to MAFAN INT. Thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn via heading 290° to intercept and proceed via OCN R-155 to CLSTR INT. Cross CLSTR INT at or below 4000', then via OCN R-155 and MZB R-314 to MAFAN INT. Thence. . . .

.....cross MAFAN INT at or above 8000', then via MZB R-314 to LNSAY INT. Then via (transition) or (assigned route). Maintain assigned altitude.

FALCC TRANSITION (LNSAY2.FALCC): From over LNSAY INT via MZB R-314 to FALCC INT.

SANTA CATALINA TRANSITION (LNSAY2.SXC): From over LNSAY INT via SXC R-091 to SXC VORTAC.

SEAL BEACH TRANSITION (LNSAY2.SLI): From over LNSAY INT via SXC R-091 and SLI R-148 to SLI VORTAC.

LOC/DME I-UBR 110.9 Chan 46	APP CRS 272°	Rwy Idg 7591 TDZE 17 Apt Elev 17
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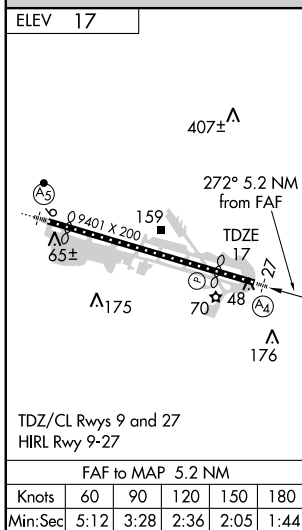
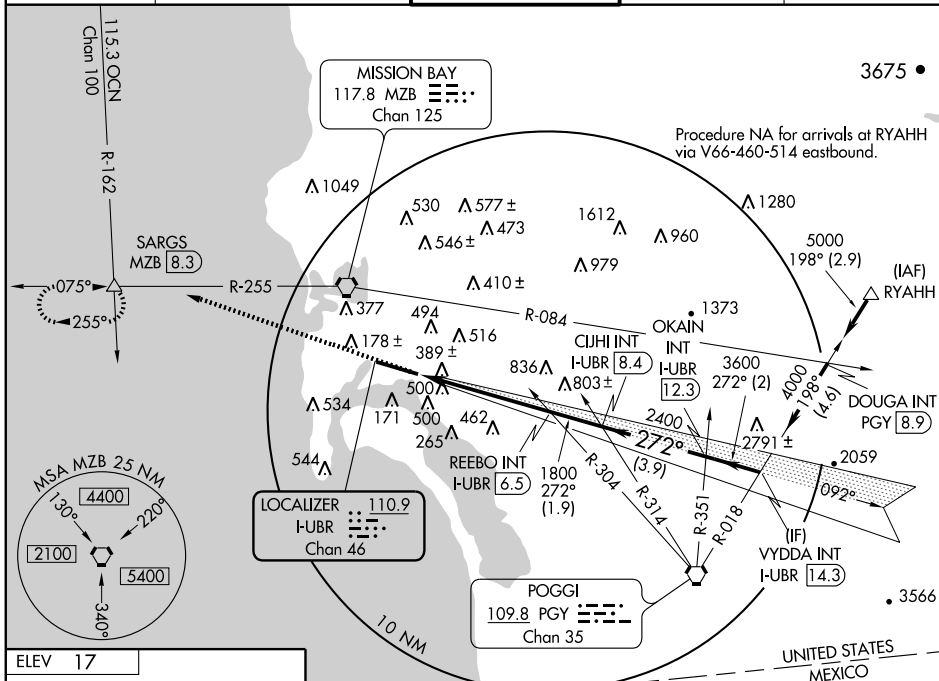
LOC RWY 27
SAN DIEGO INTL (SAN)

T	Inoperative table does not apply.
A	Visibility reduction by helicopters NA.

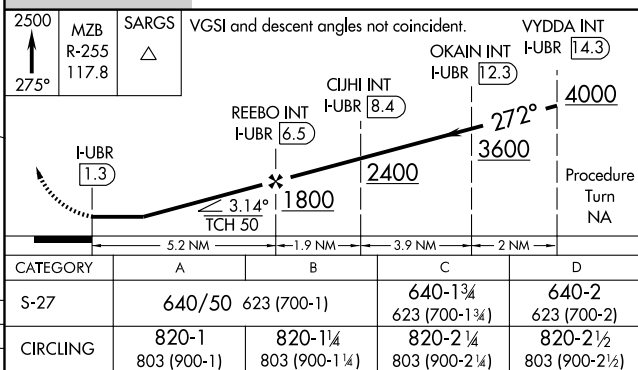


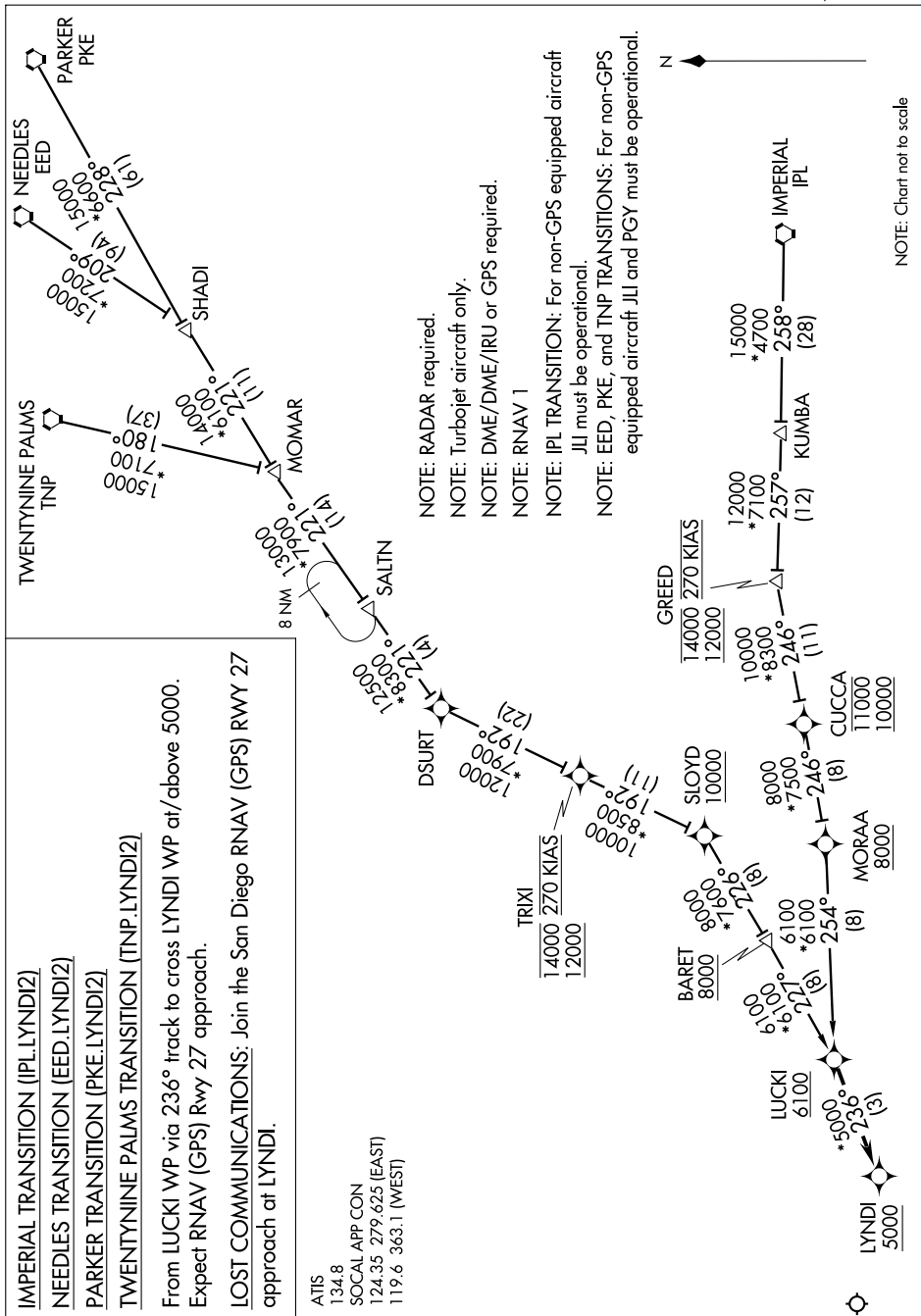
MISSED APPROACH: Climb to 2500 via heading 275° and MZB VORTAC R-255 to SARGS INT/8.3 DME and hold.

ATIS 134.8	SOCAL APP CON 119.6 363.1 WEST 124.35 279.625 EAST	LINDBERGH TOWER 118.3 338.225	GND CON 123.9	CLNC DEL 125.9
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SW-3. 14 JAN 2010 to 11 FEB 2010





PEBLE THREE DEPARTURE

SL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

ATIS 134.8
CLINC DEL
125.9
GND CON
123.9
LINDBERGH TOWER
118.3 338.225
SOCAL DEP CON
WEST 119.6 363.1

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00' - W118°03.29'
L-3-4, H-4

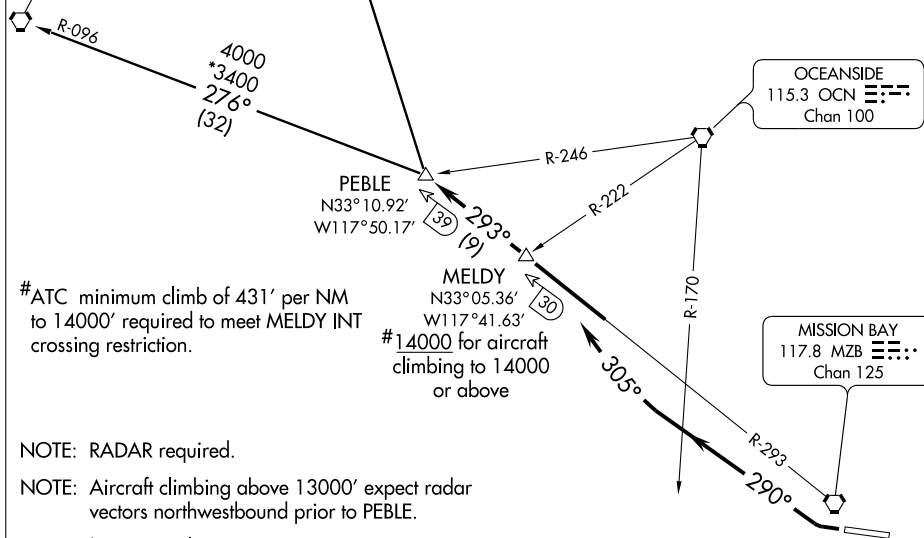
SANTA CATALINA
111.4 SXC
Chan 51
N33°22.50' - W118°25.20'
L-3-4, H-4

TAKE-OFF MINIMUMS

Rwy 9: NA-ATC operations.

Rwy 27: 300-1½ or standard with minimum climb of 317' per NM to 400.

NOTE: Rwy 27: Trees 1 mile from departure end of rwy, 685' right of centerline, 220' AGL/253' MSL. Trees 3118' from departure end of rwy, 846' right of centerline, 120' AGL/149' MSL. Flagpole 2511' from departure end of rwy, 700' left of centerline, 90' AGL/116' MSL.



DEPARTURE ROUTE DESCRIPTION

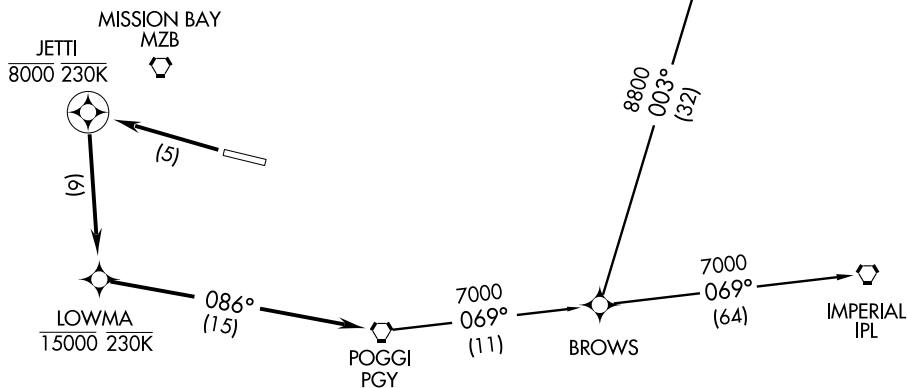
TAKE-OFF RUNWAY 27: Climbing right turn via heading 290° until crossing OCN VORTAC R-170, then turn right via heading 305° to intercept and proceed via MZB VORTAC R-293 to PEBLE INT. Aircraft climbing to 14000' or above, cross MELDY INT at or above 14000'. Then via (transition) or (assigned altitude). Maintain assigned altitude.

SANTA CATALINA TRANSITION (PEBLE3.SXC): From over PEBLE INT via SXC R-096 to SXC VORTAC.

SEAL BEACH TRANSITION (PEBLE3.SLI): From over PEBLE INT via SLI R-148 to SLI VORTAC.

POGGI TWO DEPARTURE (RNAV)

ATIS 134.8
CLINC DEL 125.9
GND CON 123.9
LINDBERGH TOWER
118.3 338.225
SOCAL DEP CON
125.15 317.55



NOTE: DME/DME/IRU or GPS required.

NOTE: Imperial Transition: For Non-GPS equipped aircraft PGY, MZB, JLI VORTACs must be operational.

NOTE: Julian Transition: For Non-GPS equipped aircraft PGY VORTAC must be operational.

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.

NOTE: Do not exceed 230 KIAS until LOWMA.

TAKE-OFF MINIMUMS

Rwy 9, NA-ATC.

Rwy 27, Standard with minimum ATC climb of 400' per NM to 520 and minimum obstacle climb of 317' per NM to 1600.

TAKE-OFF OBSTACLE NOTES

Rwy 27: Multiple trees, flag pole, light pole, and obstruction lights beginning at 287' from DER, 1985' left to 1577' right of centerline, up to 116' AGL/269' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 27: Climb direct to cross JETI at or below 8000, then climbing left turn direct to cross LOWMA at or below 15000, then via 086° track to POGGI VORTAC, Thence....

....via (transition). Maintain 15000 or as assigned by ATC, expect filed altitude 10 minutes after departure.

IMPERIAL TRANSITION (POGGI2.IPL)

JULIAN TRANSITION (POGGI2.JLI)

▼

▲

Inoperative table does not apply to Cats A/B.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MALS R

MISSED APPROACH: Climb to 3000 via 092° course to FICWO WP then via 116° course to PGY VORTAC, then right turn direct CAPUS WP and hold.

ATIS 134.8	SOCAL APP CON 119.6 363.1 WEST 124.35 279.625 EAST	LINDBERGH TOWER 118.3 338.225	GND CON 123.9	CLNC DEL 125.9
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ELEV 17

TDZ/CL Rwy 9 and 27
HIRL Rwy 9-27

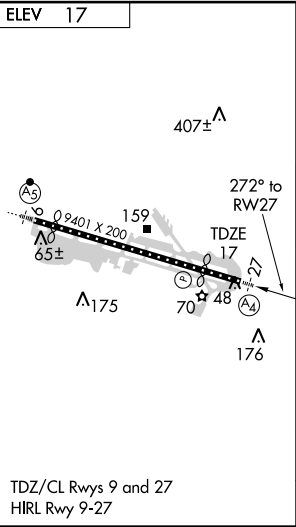
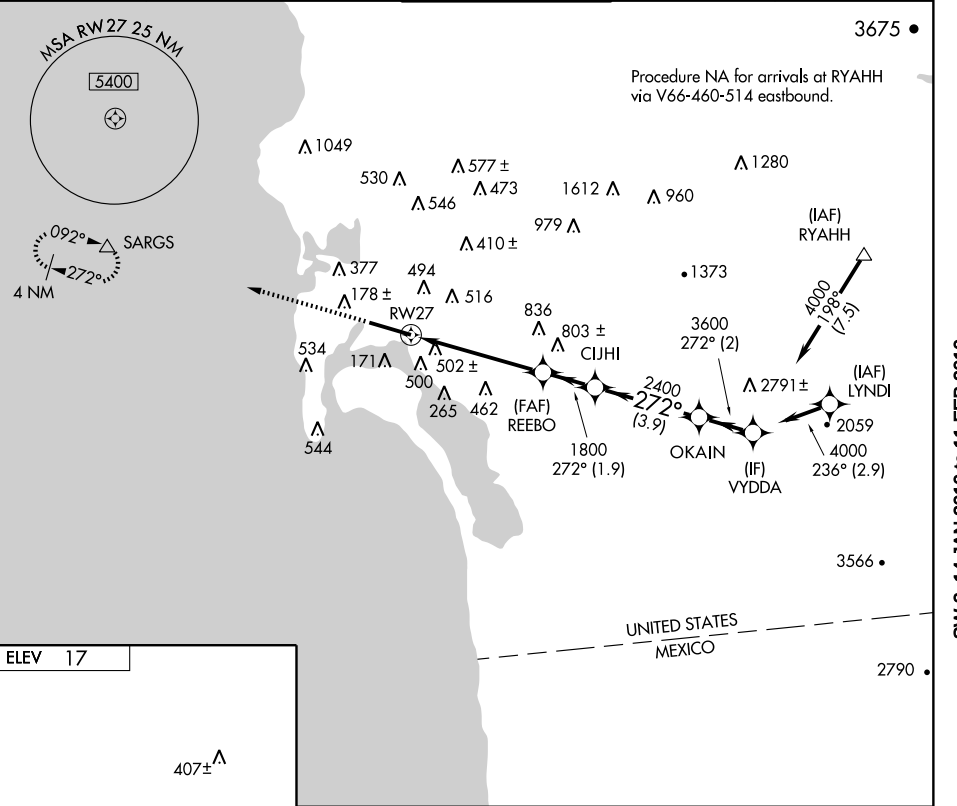
	3000 FICWO PGY CAPUS
	BADME GATTO RWY 09
Procedure Turn NA	2000 092° 1800 3.04° TCH 55
CATEGORY	A B C D
LNNAV MDA	600/50 583 (600-1) 600/60 583 (600-1½)
CIRCLING	820-1 803 (900-1) 820-1¼ 803 (900-1½) 820-2¼ 803 (900-2¼) 820-2½ 803 (900-2½)

SW-3. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	7591
272°	TDZE	17
	Apt Elev	17

▼ NA Inoperative table does not apply. Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.	MALS A4 ≡	MISSED APPROACH: Climb to 2500 direct SARGs and hold.
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ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL
134.8	119.6 363.1 WEST	118.3 338.225	123.9	125.9
	124.35 279.625 EAST			

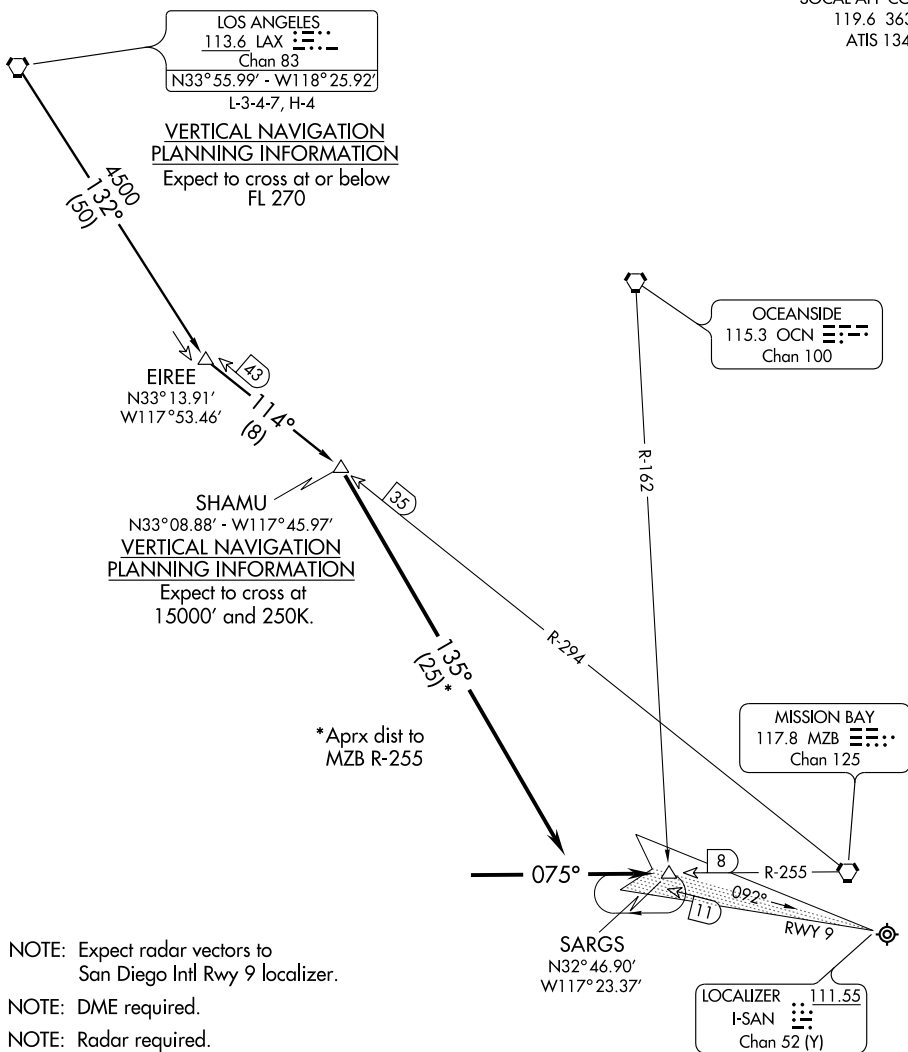


2500	SARGs	VGSI and descent angles not coincident.				VYDDA
	△					OKAIN
		REEBO	CIJHI	272°	4000	
				3600		
		1800	2400			Procedure Turn NA
		5.2 NM	1.9 NM	3.9 NM	2 NM	
CATEGORY	A	B	C	D		
LNNAV MDA	760/50 743 (800-1)	760/60 743 (800-1¼)	760-2¼ 743 (800-2¼)	760-2½ 743 (800-2½)		
CIRCLING	820-1 803 (900-1)	820-1¼ 803 (900-1¼)	820-2¼ 803 (900-2¼)	820-2½ 803 (900-2½)		

SOCAL APP CON

119.6 363.1

ATIS 134.8



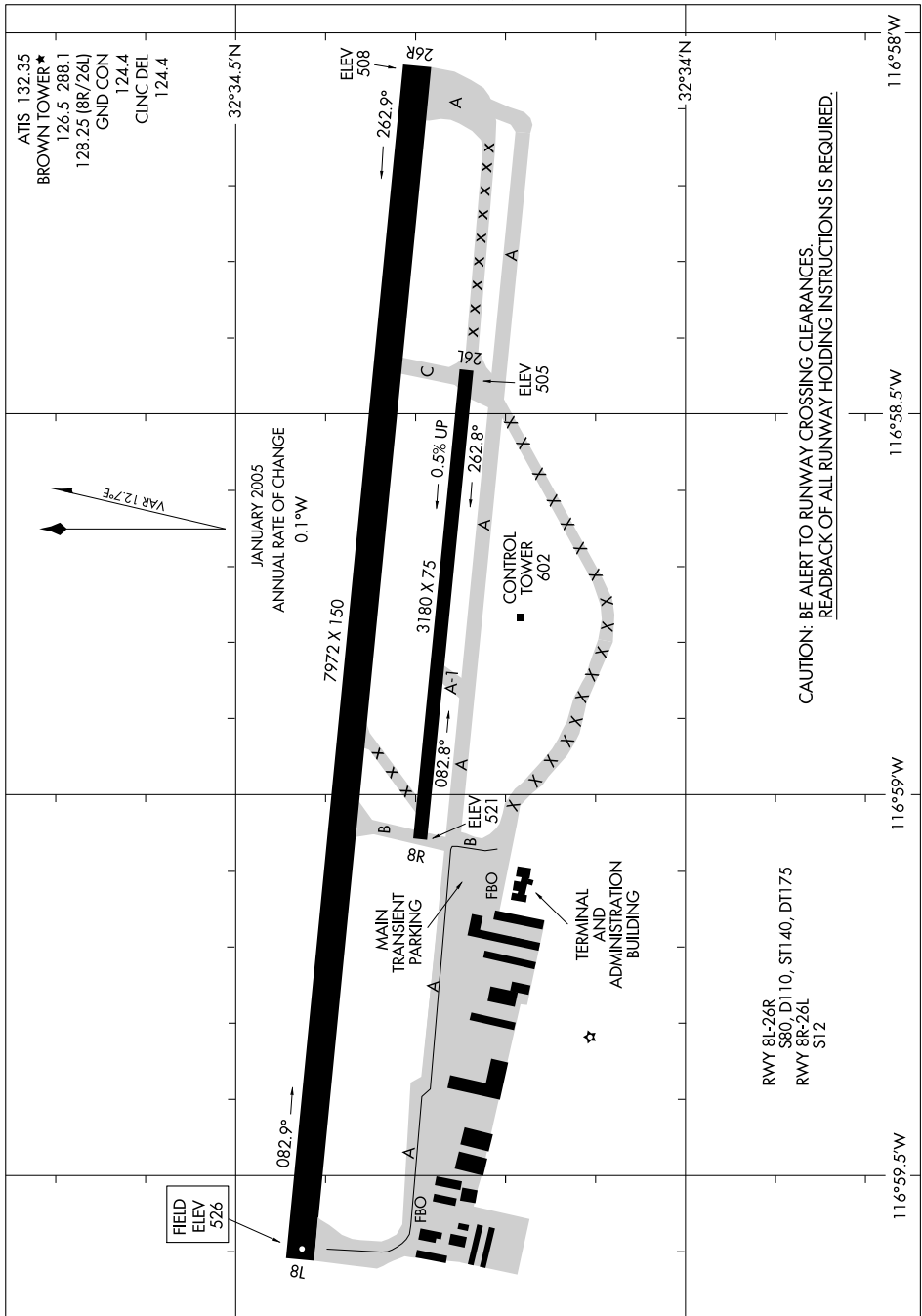
LOS ANGELES TRANSITION (LAX.SHAMU1): From over LAX VORTAC via LAX R-132 and MZB R-294 to SHAMU FIX. Thence....

....From over SHAMU FIX via heading 135° to intercept MZB R-255 then via MZB R-255 to SARGS INT. Expect radar vectors to SAN Rwy 9 localizer.

AIRPORT DIAGRAM

AL-5814 (FAA)

SAN DIEGO / BROWN FIELD MUNI (SDM)
SAN DIEGO, CALIFORNIA



▼

DME/DME RNP -0.3 NA.

▲

Circling NA south of Rwy 8R-26L.

If local altimeter setting not received, use San Diego Intl altimeter setting and increase all MDAs 120 feet.

VDP NA when using San Diego Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 direct LUGJA and hold.

ATIS 132.35	SOCAL APP CON 124.35 279.625	BROWN TOWER ★ 126.5 (CTAF) 288.1 128.25 (8R/26L)	GND CON 124.4	CLNC DEL 124.4	UNICOM 122.95
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Procedure NA for arrivals at MZB VORTAC via V317 northwest bound.

5 NM Holding Pattern

LUGJA

YAPKI

3000

277°

097°

097°

097°

2300

082°

0.6 NM to UGOYA

UGOYA

3.05° TCH 50

7.6 NM

4.2 NM

0.6

0.5

CATEGORY	A	B	C	D
LNAV MDA	940-1	414 (500-1)	940-1¼	414 (500-1¼)
CIRCLING	980-1 454 (500-1)	1020-1 494 (500-1)	1020-1½ 494 (500-1½)	1080-2 554 (600-2)

ELEV 526

7972 X 150

0.5% UP

3180 X 75

26L

26R

602

TDZE 526

MIRL Rwy 8L-26R

SW-3. 14 JAN 2010 to 11 FEB 2010

▼

▲

When control tower closed, use San Diego Intl altimeter setting minimums.
Circling not authorized south of runway 8R-26L.

MISSED APPROACH: Climbing right turn to 4000 direct MZB VORTAC and hold.

ATIS 132.35	SOCAL APP CON 124.35 279.625	BROWN TOWER ★ 126.5 (CTAF) 288.1 128.25 (8R/26L)	GND CON 124.4	CLNC DEL 124.4	UNICOM 122.95
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MISSION BAY 117.8 MZB Chan 125

256° 4000 076° (10.7) R-076

R-102

FINLE INT PGY 4.4

POGGI 109.8 PGY Chan 35

156° 2400 159° 2.3 NM

10 NM

A 1345

A 2791 ± 2059

4187 2801 3836 3760 3339 3566 3885 2790

UNITED STATES MEXICO

MSA PGY 25 NM

180° 090° 270° 360°

4700 7600 2500 5300

HAILE PGY 10.3

FINLE INT PGY 4.4

4000

156°

2400

VORTAC

Fly Visual 157° 2.3 NM

5.9 NM

4.4 NM

Procedure Turn NA

4000

MZB 117.8

CATEGORY	A	B	C	D
CIRCLING	1220-2¾ 696 (700-2¾)			
SAN DIEGO INTL ALTIMETER SETTING MINIMUMS				
CIRCLING	1340-2¾ 816 (900-2¾)			

ELEV 524

157° 2.3 NM

Fly Visual

78 98 102 26R

7972 X 150

3180 X 75

602

0.5% UP

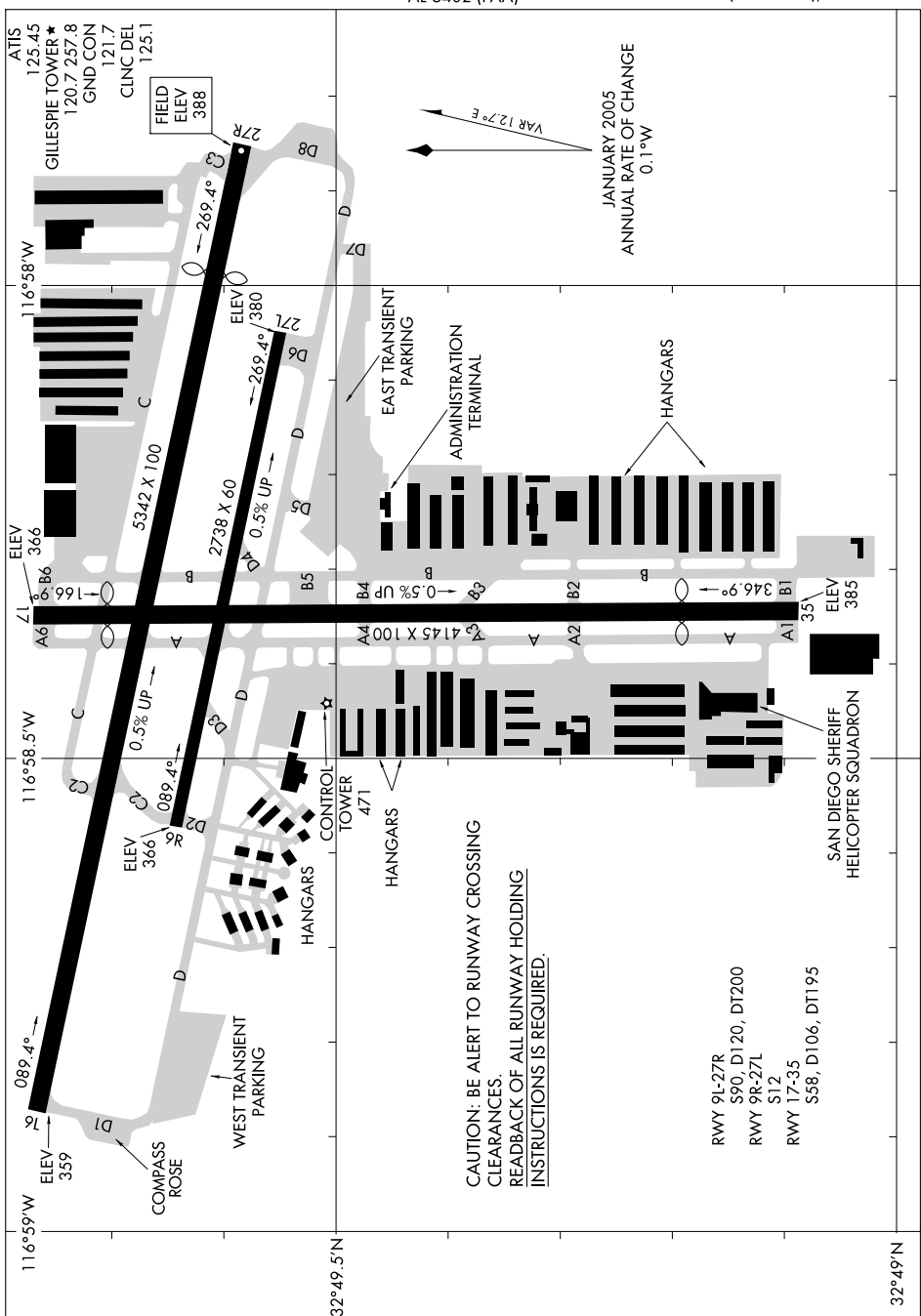
MIRL Rwy 8L-26R

SW-3. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-5402 (FAA)

SAN DIEGO/GILLESPIE FIELD (SEE)
SAN DIEGO (EL CAJON), CALIFORNIA



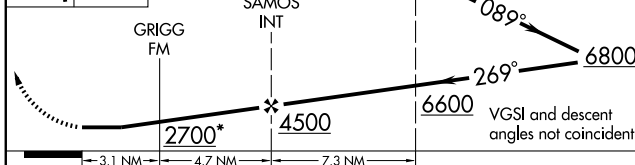
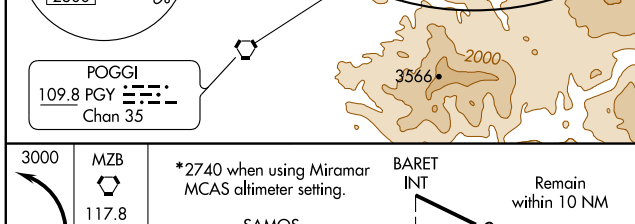
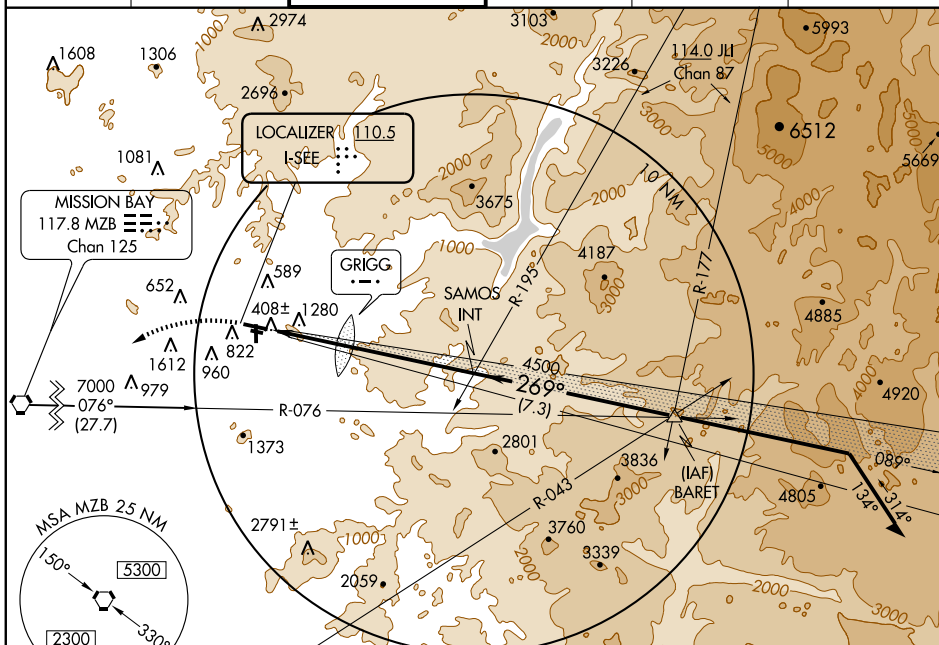
SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-SEE 110.5	APP CRS 269°	Rwy Idg TDZE Apt Elev	N/A N/A 387
---------------------------	------------------------	-----------------------------	--------------------------

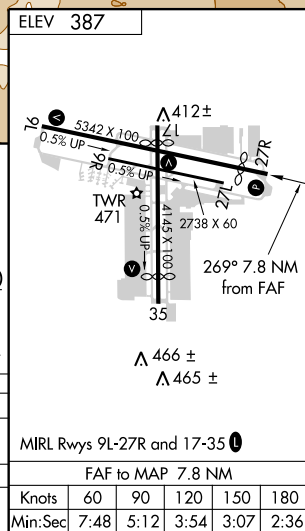
⚠ Circling not authorized NE of Rwy 17 and 27R.
⚠ When control tower closed use Miramar MCAS, CA
 altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing left turn to 3000 direct to
 MZB VORTAC.

ATIS 125.45	SOCAL APP CON 124.35 279.625	GILLESPIE TOWER★ 120.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 125.1	UNICOM 123.05
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CATEGORY	A	B	C	D
CIRCLING	2700-1 ¼ 2313 (2400-1 ¼)	2700-1 ½ 2313 (2400-1 ½)	2700-3 2313 (2400-3)	
GRIGG FM MINIMUMS				
CIRCLING	1580-1 ¼ 1193 (1200-1 ¼)	1580-1 ½ 1193 (1200-1 ½)	1580-3 1193 (1200-3)	1920-3 1533 (1600-3)



APP CRS
152°

Rwy Idg
TDZE
Apt Elev

3695
379
388

RNAV (GPS) RWY 17

SAN DIEGO/GILLESPIE FIELD (SEE)

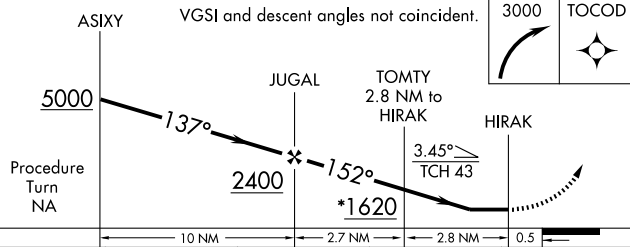
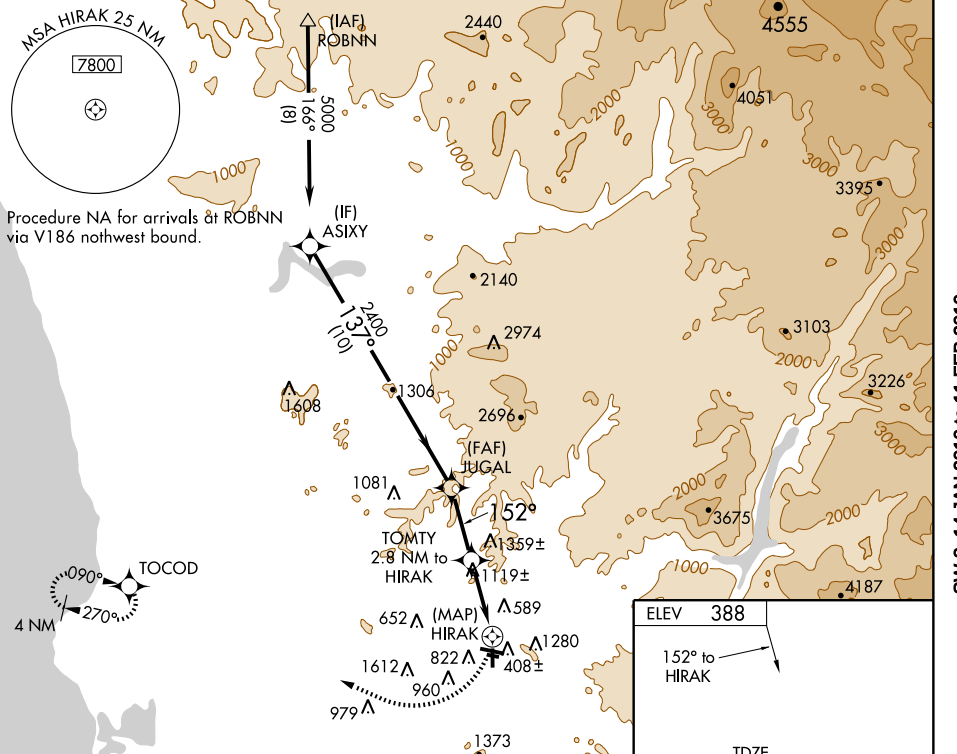
▼

▲

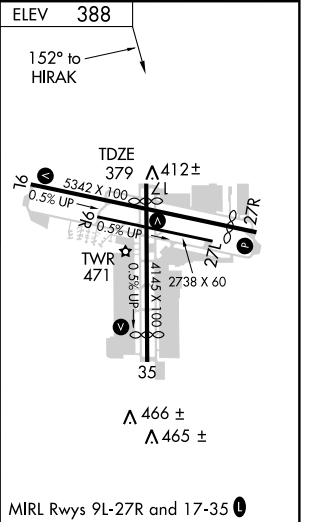
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Miramar MCAS
altimeter setting and increase all MDA 40 feet.
*1660 when using Miramar MCAS altimeter setting.
LNAV MDA Cat D minima NA when using Miramar MCAS altimeter setting.

MISSED APPROACH: Climbing right turn
to 3000 direct TOCOD and hold.

ATIS 125.45	SOCAL APP CON 124.35 279.625	GILLESPIE TOWER★ 120.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 125.1	UNICOM 123.05
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CATEGORY	A	B	C	D
LNAV MDA	1440-1¼ 1061 (1100-1¼)	1440-1½ 1061 (1100-1½)	1440-3 1061 (1100-3)	
CIRCLING	1440-1¼ 1052 (1100-1¼)	1440-1½ 1052 (1100-1½)	1440-3 1052 (1100-3)	1520-3 1132 (1200-3)



SW-3, 14 JAN 2010 to 11 FEB 2010

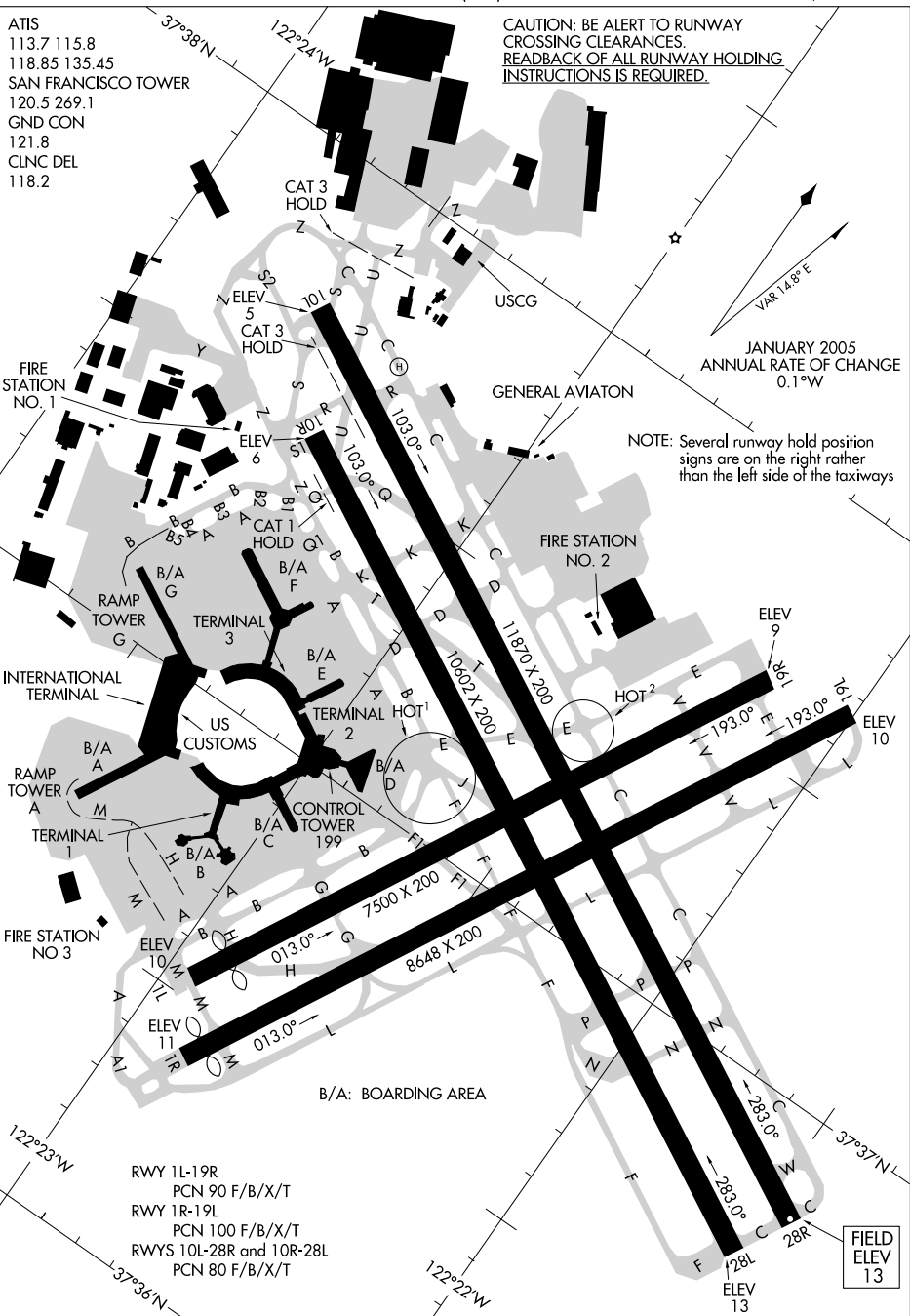
AIRPORT DIAGRAM

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

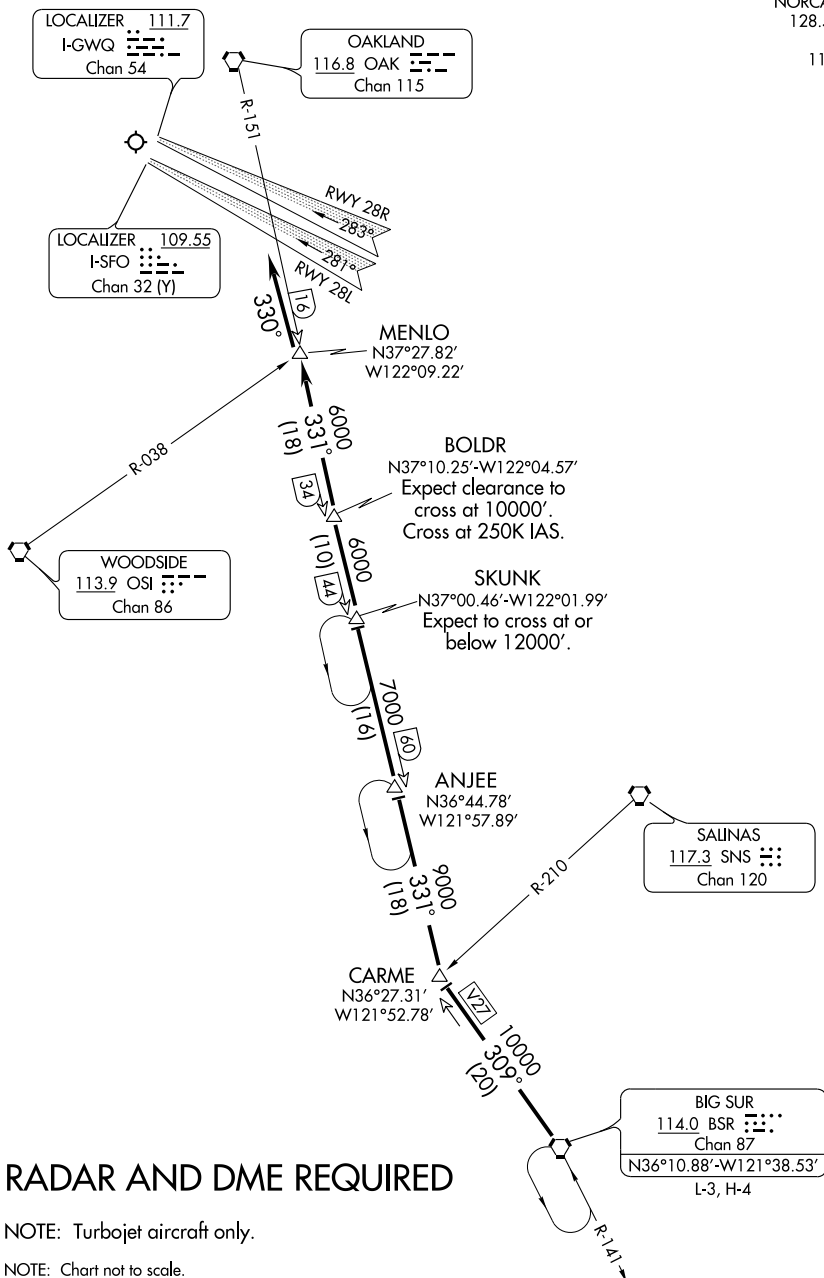
ATIS
113.7 115.8
118.85 135.45
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8
CLNC DEL
118.2

CAUTION: BE ALERT TO RUNWAY
CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING
INSTRUCTIONS IS REQUIRED.



SW-2 14 JAN 2010 to 11 FEB 2010

OAKLAND CENTER
125.45 307.3
NORCAL APP CON
128.575 254.25
ATIS
113.7 118.85



RADAR AND DME REQUIRED

NOTE: Turbojet aircraft only.

NOTE: Chart not to scale.

(DUMB6.BARTN) 09127 DUMBARTON SIX DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

LINDEN
114.8 LIN
Chan 95
N38°04.47'-W121°00.23'
L-2-3, H-3

OAKLAND
116.8 OAK
Chan 115

SAN FRANCISCO
115.8 SFO
Chan 105

MANTECA
116.0 ECA
Chan 107

ALTAM
N37°48.73'
W121°44.83'

NOTE: Rws 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.
For obstacle clearance the following minimum climb rates are required:
Rwy 19L, 480' per NM to 1400'.
Rwy 19R, Categories A, B, 480' per NM to 1400';
Categories C, D, 530' per NM to 1800'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via SFO R-090 to BARTN INT, thence via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

LINDEN TRANSITION (DUMB6.LIN): From over BARTN INT via OSI R-028 and LIN R-229 to LIN VORTAC.

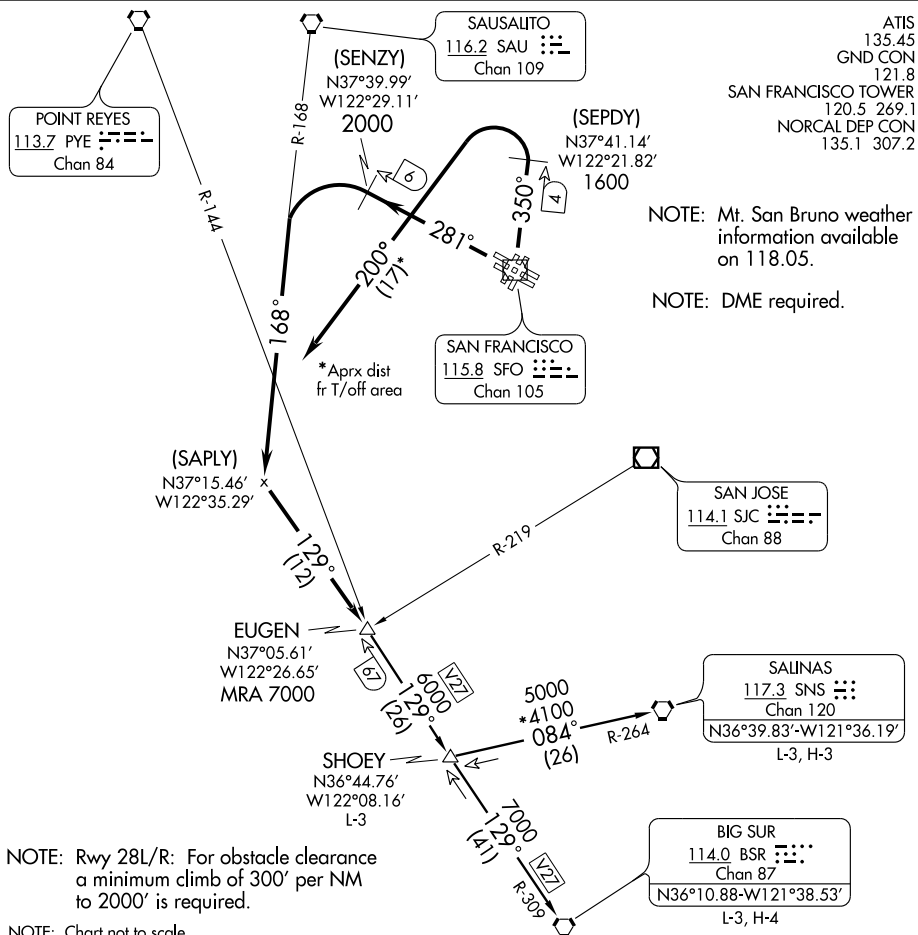
RED BLUFF TRANSITION (DUMB6.RBL): From over BARTN INT via OSI R-028 and RBL R-152 to RBL VORTAC.

SACRAMENTO TRANSITION (DUMB6.SAC): From over BARTN INT via OSI R-028 and SAC R-177 to SAC VORTAC.

WOODSIDE TRANSITION (DUMB6.OSI): From over BARTN INT via OSI R-028 to OSI VORTAC.

EUGEN FIVE DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via SFO R-350, after passing the 4 DME fix and after reaching 1600', turn left heading 200° to intercept and proceed via SAU R-168 and BSR R-309 to EUGEN INT. Thence....

TAKE-OFF RUNWAYS 28L/R: Climb via SFO R-281, after passing 6 DME fix and reaching 2000', turn left to intercept and proceed via SAU R-168 and BSR R-309 to EUGEN INT. Thence....

....via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

BIG SUR TRANSITION (EUGEN5.BSR)

SALINAS TRANSITION (EUGEN5.SNS)

SHOHEY TRANSITION (EUGEN5.SHOHEY)

GAP THREE DEPARTURE

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SL-375 (FAA)

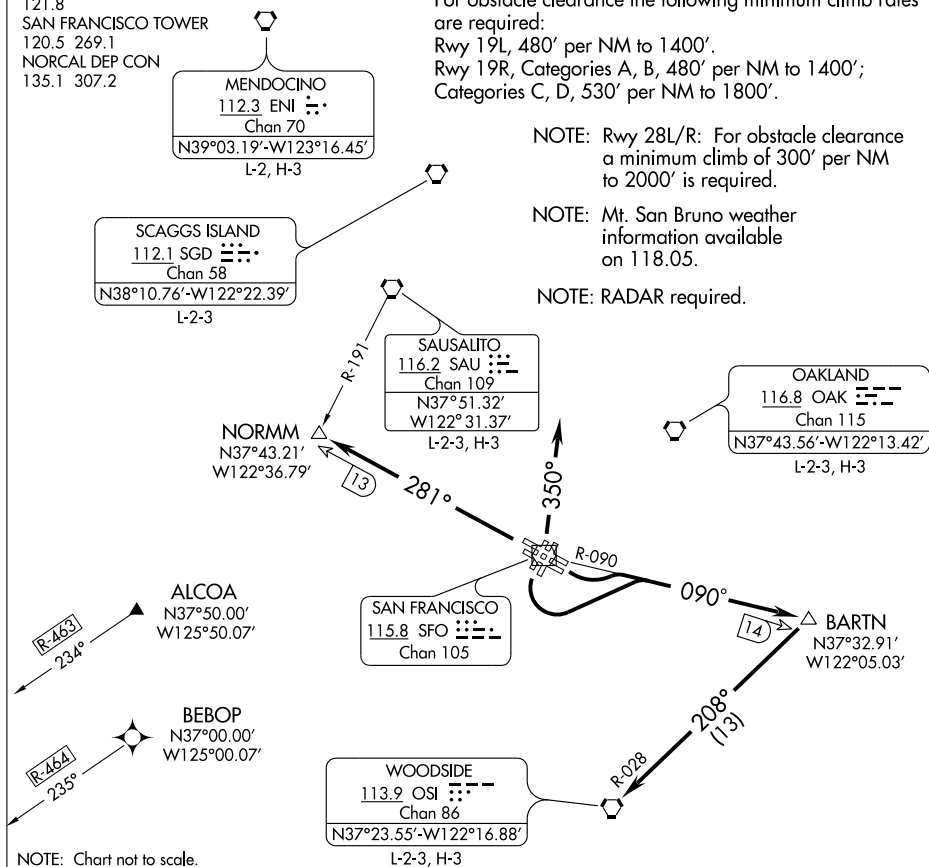
ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

NOTE: Rws 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.
For obstacle clearance the following minimum climb rates are required:
Rwy 19L, 480' per NM to 1400'.
Rwy 19R, Categories A, B, 480' per NM to 1400';
Categories C, D, 530' per NM to 1800'.

NOTE: Rwy 28L/R: For obstacle clearance a minimum climb of 300' per NM to 2000' is required.

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: RADAR required.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

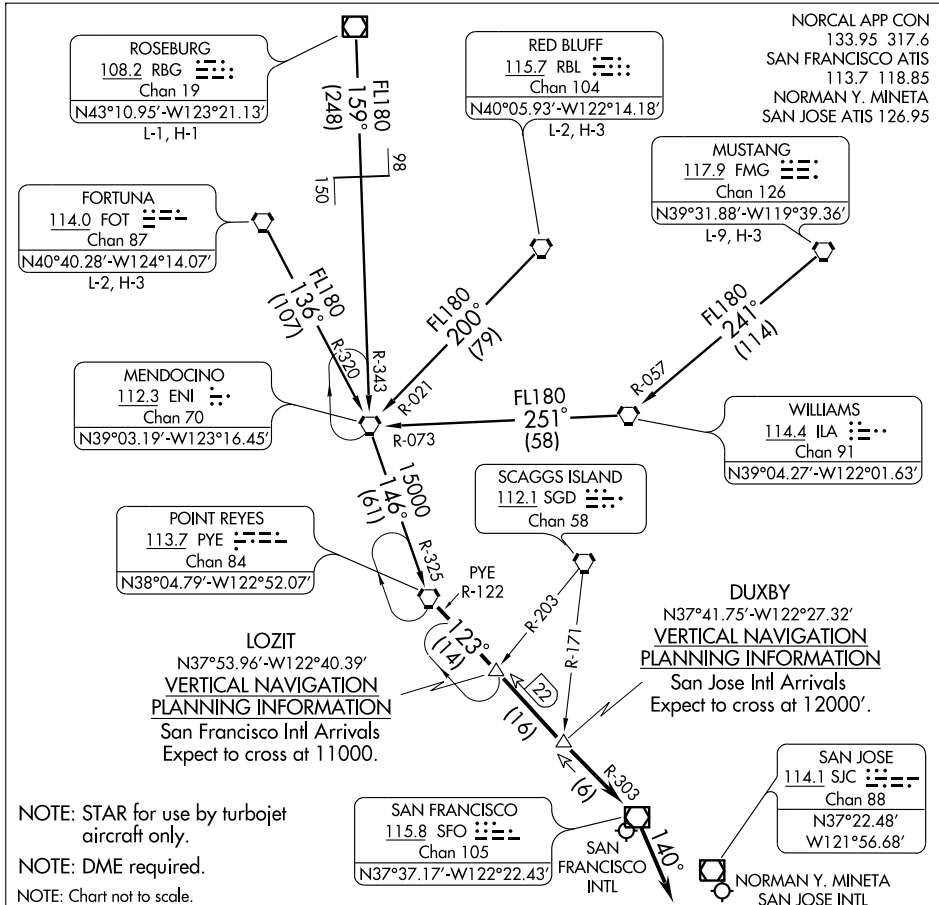
TAKE-OFF RUNWAYS 1L/R: Climb via heading 350° (or as assigned) for vector to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via SFO R-090 and OSI R-028 to OSI VORTAC; expect vector to assigned route/fix after OSI VORTAC. Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Climb via SFO VOR/DME R-281 to NORMM INT; expect vector to assigned route/fix after NORMM INT. Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

ALL RUNWAYS: If not in contact with departure control after reaching 3000', continue climb to assigned altitude and proceed direct to assigned route/fix.



FORTUNA TRANSITION (FOT.GOLDN5): From over FOT VORTAC via FOT R-136 and ENI R-320 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

MUSTANG TRANSITION (FMG.GOLDN5): From over FMG VORTAC via FMG R-241 and ILA R-057 to ILA VORTAC, then via ILA R-251 and ENI R-073 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

RED BLUFF TRANSITION (RBL.GOLDN5): From over RBL VORTAC via RBL R-200 and ENI R-021 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

ROSEBURG TRANSITION (RBG.GOLDN5): From over RBG VOR/DME via RBG R-159 and ENI R-343 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

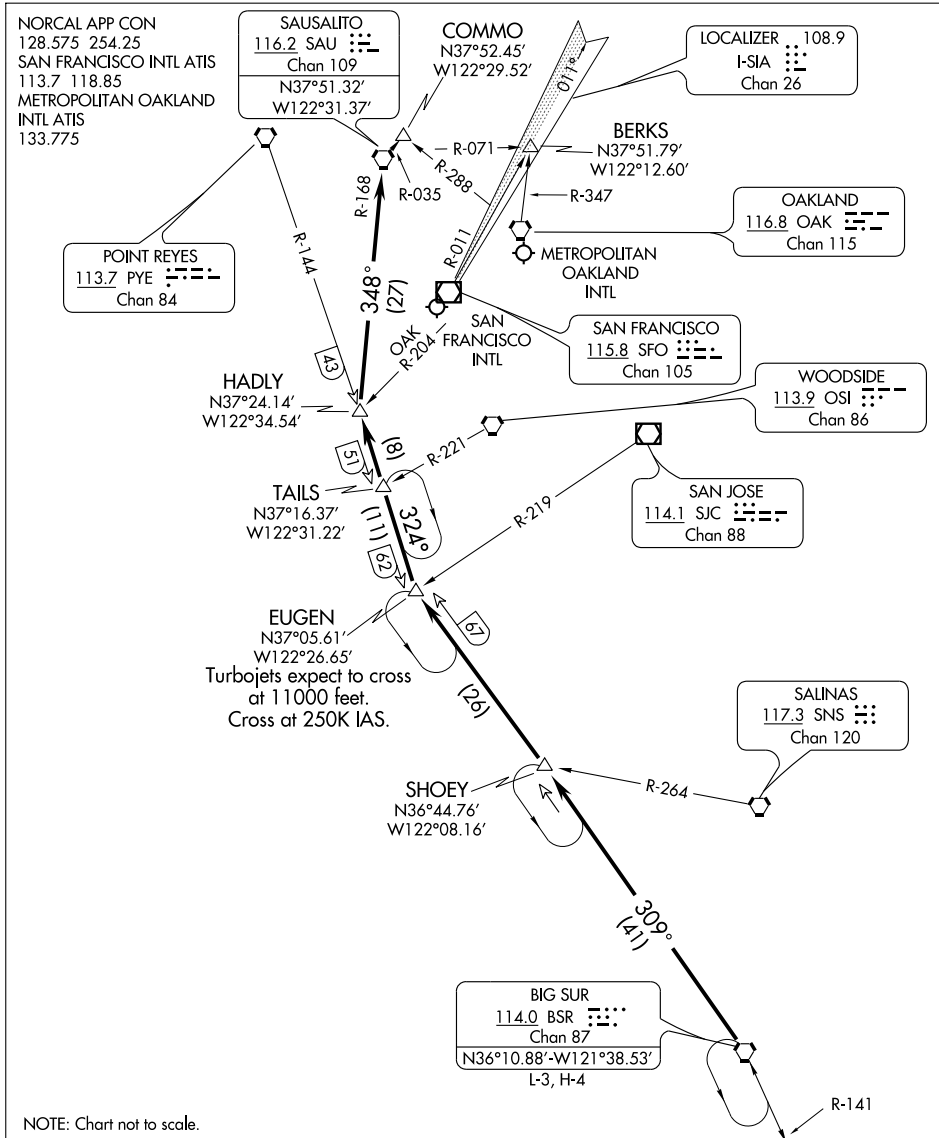
....From over PYE VORTAC via SFO R-303 to SFO VOR/DME, then via heading 140° (MEA 6000). Expect vectors to final approach course.

LOST COMMUNICATIONS: San Jose Intl: After SFO VOR/DME proceed direct SJC VOR/DME. (MEA 6000).

HADLY TWO ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



From over BSR VORTAC via BSR R-309 to EUGEN INT, then via PYE R-144 to HADLY INT, then via direct SAU VORTAC. Expect vectors to final approach course. Expect clearance to cross EUGEN INT at 11000' and at 250K IAS.

LOST COMMUNICATIONS

San Francisco Intl: Depart SAU VORTAC via SAU R-071 to BERKS INT.

Metropolitan Oakland Intl: Depart SAU VORTAC via SAU R-035 to COMMO INT.

LOC/DME I-SIA 108.9 Chan 26	APP CRS 191°	Rwy 19L Idg 8648 TDZE 11 Apt Elev 13	Rwy 19R Idg 7500 TDZE 10 Apt Elev 13
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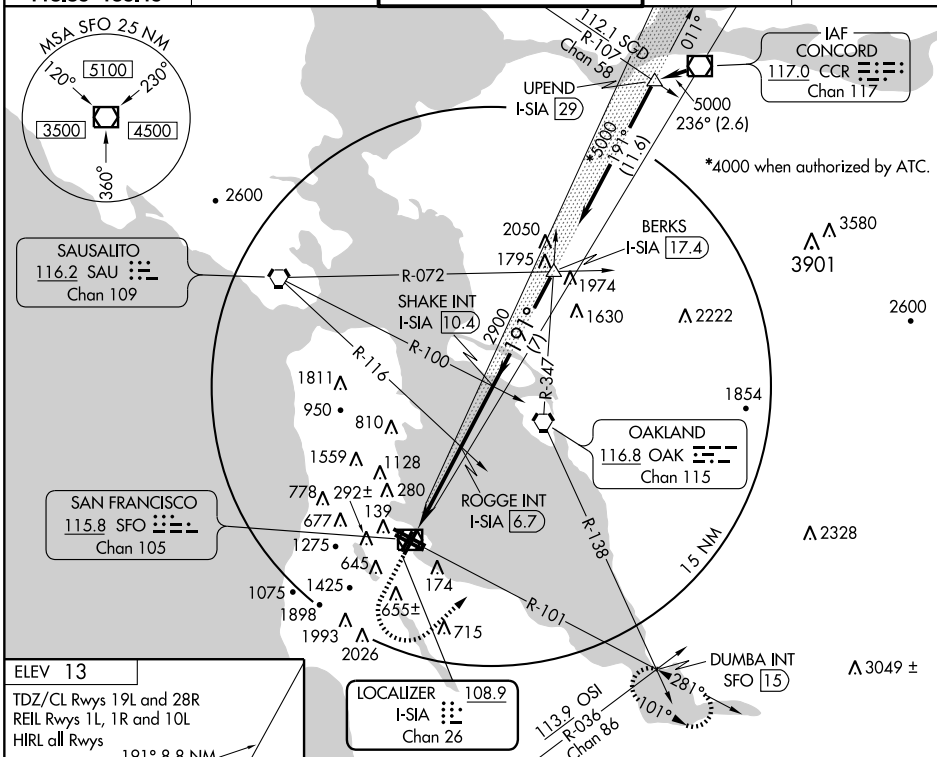
ILS or LOC RWY 19L
SAN FRANCISCO INTL (SFO)

T Inoperative table does not apply.

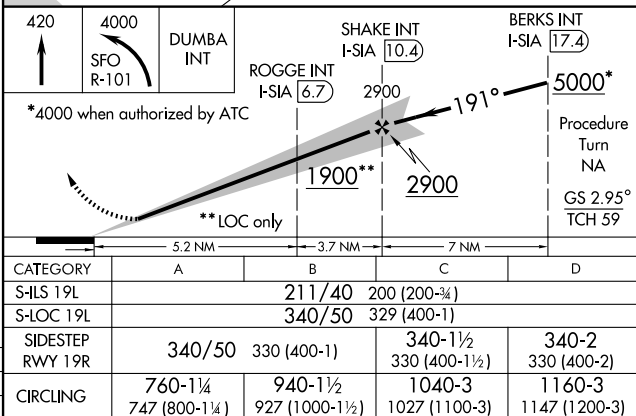
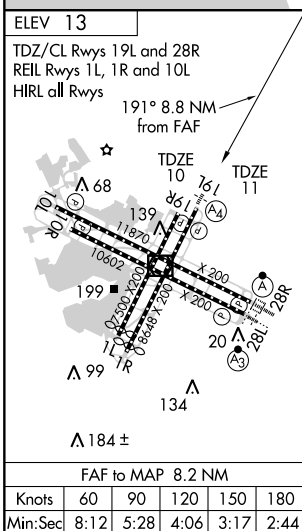
SSALS
Rwy 19L
A4-III-

MISSED APPROACH: Climb to 420 then climbing left turn to 4000 via SFO VOR/DME R-101 to DUMBA Int and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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SW-2. 14 JAN 2010 to 11 FEB 2010



LOC/DME I-SFO	APP CRS	Rwy 28L Idg	Rwy 28R Idg
109.55	281°	10602	11870
Chan 32 (Y)		13	13
		TDZE	TDZE
		Apt Elev	Apt Elev
		13	13

⚠ Inoperative table does not apply to sidestep 28R Cat A and B. Disregard IM and MM indications.

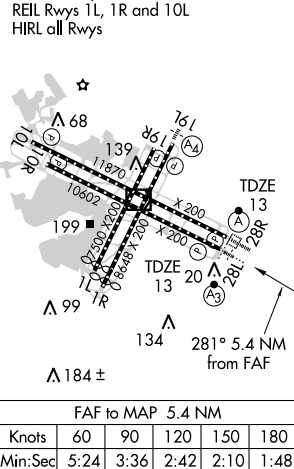
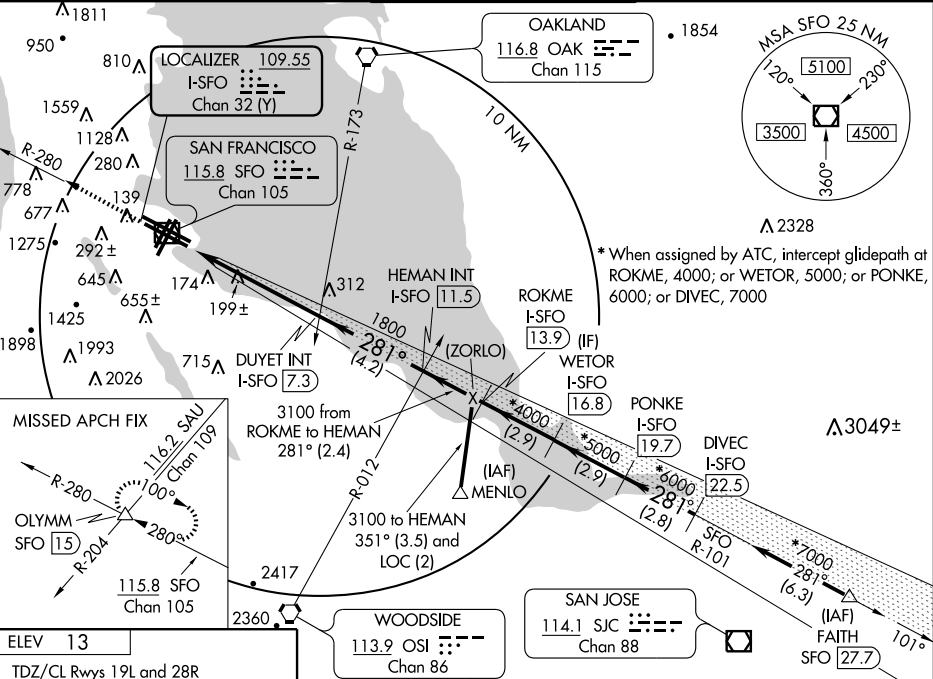
#RVR 1800 authorized with the use of FD or AP or HUD to DA.

SSALR Rwy 28L

ALSIF-2 Rwy 28R

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 via heading 285° and SFO VOR/DME R-280 to OLYMM INT 1.5 DME and hold.

ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON	CLNC DEL
113.7 115.8				
118.85 135.45	134.5 338.2	120.5 269.1	121.8	118.2



600 ↑	3000 ↗ 285°	SFO R-280 115.8	OLYMM △	* When assigned by ATC, intercept glidepath at ROKME, 4000; or WETOR, 5000; or PONKE, 6000; or DIVEC, 7000.						
Use I-SFO DME when on the LOC course.				Procedure Turn NA						
GS 3.00° TCH 57				I-SFO 3.1	DUYET INT I-SFO 7.3	HEMAN INT I-SFO 11.5	ROKME I-SFO 13.9	WETOR I-SFO 16.8	PONKE I-SFO 19.7	DIVEC I-SFO 22.5
CATEGORY				A		B		C		D
S-ILS 28L				#213/24 200 (200-½)						
S-LOC 28L				460/24 447 (500-½)		460/40 447 (500-¾)		460/50 447 (500-1)		
SIDESTEP RWY 28R				460/50 447 (500-1)						
CIRCLING				760-1 747 (800-1)		940-1¼ 927 (1000-1¼)		1040-3 1027 (1100-3)		1160-3 1147 (1200-3)

SW-2, 14 JAN 2010 to 11 FEB 2010

▼ Inoperative table does not apply to Sidestep Rwy 28L Cat A and Cat B.

▲ For inoperative SSALR, increase Sidestep R28L Cat C visibility to RVR 6000.

ALSIF-2
Rwy 28R
TDZE

SSALR
Rwy 28L

MISSED APPROACH: Climb to 600, then climbing left turn to 3000 via heading 281° and SFO VOR/DME R-279 to VIKYU Int/SFO 12 DME and hold. #

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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ELEV 13

TDZ/CL Rws 19L and 28R
REIL Rws 1L, 1R and 10L
HIRL all Rws

600	3000	SFO R-279 115.8	VIKYU INT	AXMUL INT I-GWQ 7.4	CEPIN INT I-GWQ 12	DUMBA INT I-GWQ 16.1	One Minute Holding Pattern
281°	281°						
I-GWQ 2.1	IM	1800	283°	3200	103°	4100	VGSI and ILS glidepath not coincident GS 3.00° TCH 55
0.1	5.2 NM	4.6 NM	4.2 NM				
CATEGORY	A	B	C	D			
S-ILS 28R	213/18				200 (200-½)		
S-LOC 28R	460/24	447 (500-½)	460/40 447 (500-¾)	460/50 447 (500-1)			
SIDESTEP RWY 28L	460/50 447 (500-1)				460-1½ 447 (500-½)		
CIRCLING	760-1 747 (800-1)	940-1¼ 927 (1000-1¼)	1040-3 1027 (1100-3)	1160-3 1147 (1200-3)			

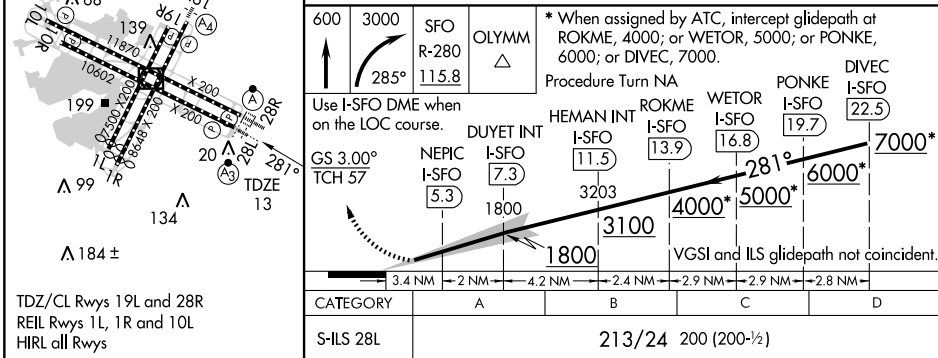
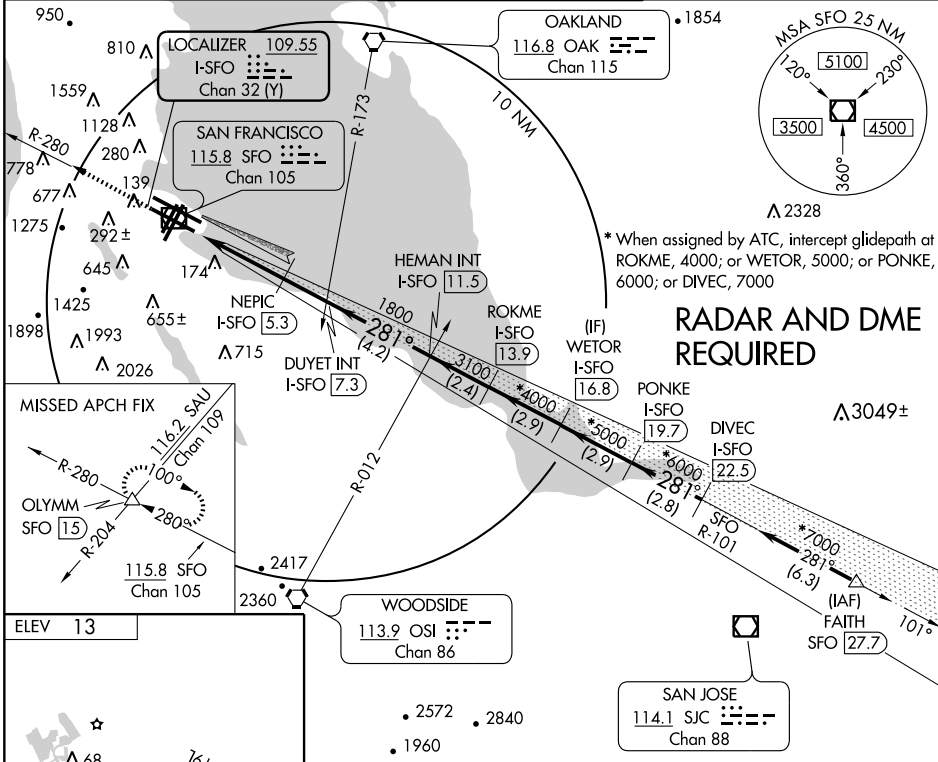
SW-2: 14 JAN 2010 to 11 FEB 2010

LOC/DME I-SFO <u>109.55</u> Chan 32 (Y)	APP CRS 281°	Rwy Idg 10602 TDZE 13 Apt Elev 13
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T	Simultaneous close parallel approach authorized with LDA PRM Rwy 28R.
A NA	Localizer only not authorized during close-parallel operations. Dual VHF comm required. Disregard IM and MM indications. See additional requirements on AAUP. Runway 28L and 28R separated by 750' centerline to centerline.

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 via heading 285° and SFO VOR/DME R-280 to OLYMM INT/SFO VOR/DME 15 DME and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1 PRM 125.15	GND CON 121.8	CLNC DEL 118.2
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ATTENTION ALL USERS PAGE (AAUP)

Condensed Briefing Points:

- Listen to the PRM monitor frequency when communicating with NORCAL approach control (135.65), no later than LOC intercept.
- Expect to be switched to SFO Tower (120.5) at NEPIC (I-SFO 5.3 DME).
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

1. **ATIS.** When the ATIS broadcast advises that simultaneous ILS/PRM and LDA/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 28L approach. If later advised to expect an ILS 28L approach, the ILS/PRM 28L chart may be used after completing the following briefing items:

- (a) Minimums and missed approach procedures are unchanged.
- (b) Monitor frequency no longer required.
- (c) A different glideslope intercept altitude may be assigned when advised to expect the ILS 28L approach.

Simultaneous parallel approaches will only be offered/conducted when the weather is at least 2100 feet (ceiling) and 4 miles (visibility).

2. **Dual VHF Communication required.** To avoid blocked transmissions, each runway will have two frequencies, a primary and a PRM monitor frequency. The NORCAL approach controller will transmit on both frequencies. The PRM Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the approach controller's frequency (135.65), but will listen to both frequencies. Select the PRM monitor frequency audio only when in contact with NORCAL approach control (135.65). The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked. The PRM monitor frequency may be de-selected passing NEPIC.

3. **ALL "Breakouts"** are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.

- (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1000 feet required obstruction clearance. The MVA in the final approach segment is 1600 feet at San Francisco International Airport.
- (b) Phraseology - "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE" (NTZ), the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:

"TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".

4. Descending on (not above) the ILS glideslope ensures complying with any charted crossing restrictions and assists traffic on the LDA PRM 28R approach to mitigate possible wake turbulence encounters without destabilizing the LDA approach and creating a go-around.

5. **LDA Traffic:** While conducting this ILS/PRM approach to Runway 28L, other aircraft may be conducting the offset LDA/PRM approach to Runway 28R. These aircraft will approach from the right-rear and will re-align with 28R after making visual contact with the ILS traffic.

Special pilot training required. Pilots who are unable to participate, or dispatchers on their behalf, must contact the FAA Command Center prior to departure (1-800-333-4286 or 703-904-4452) to obtain an arrival reservation. Non-participating pilots enroute to SFO as an alternate, or trained pilots that are unexpectedly unable to participate due to in-flight circumstances will be afforded appropriate arrival services as operational conditions permit. Non-participating pilots shall notify the Oakland ARTCC as soon as practical, but at least 100 miles from SFO.

AL-375 (FAA)

LOC/DME I-GWQ <u>111.7</u> Chan 54	APP CRS 283°	Rwy Idg TDZE Apt Elev	11870 13 13
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ILS RWY 28R (CAT II)

SAN FRANCISCO INTL (SFO)

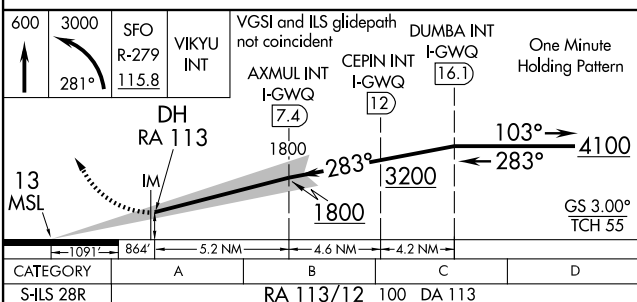
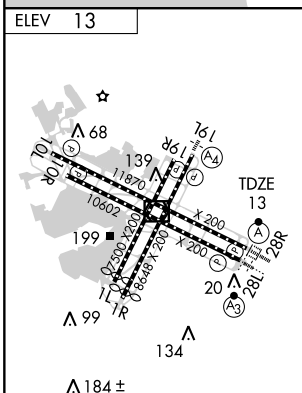
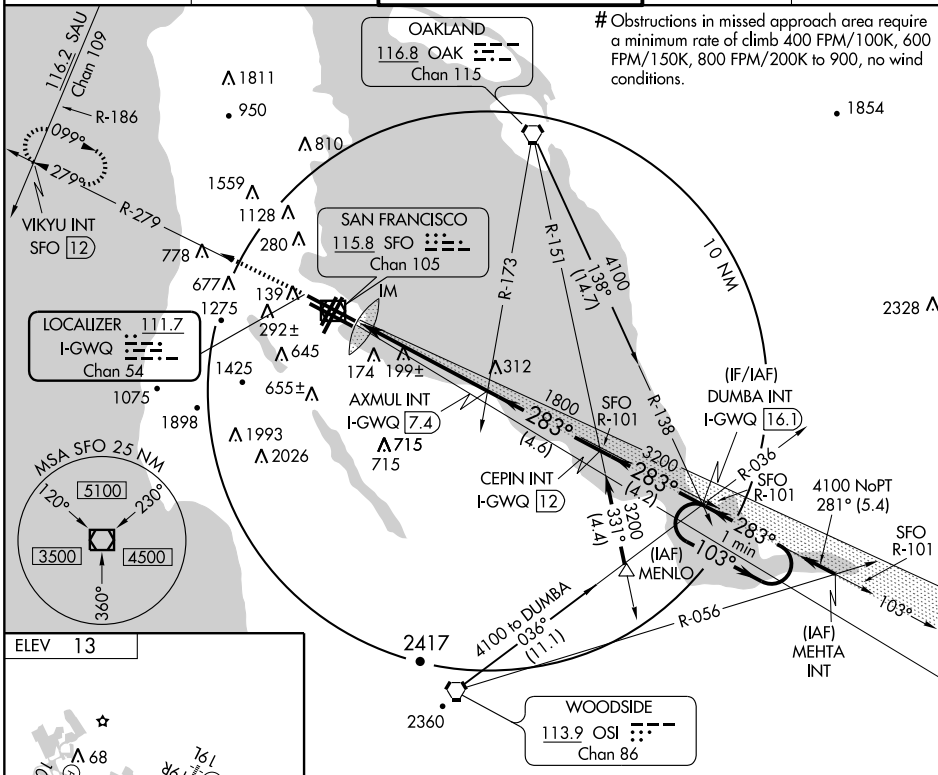


ALSF-2



MISSED APPROACH: Climb to 600, then climbing left turn to 3000 via heading 281° and SFO VOR/ DME R-279 to VIKYU Int/SFO 12 DME and hold. #

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

SW-2 14 JAN 2010 to 11 FEB 2010

LOC/DME I-GWQ <u>111.7</u> Chan 54	APP CRS 283°	Rwy Idg TDZE Apt Elev	11870 13 13
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ILS RWY 28R (CAT III)

SAN FRANCISCO INTL (SFO)

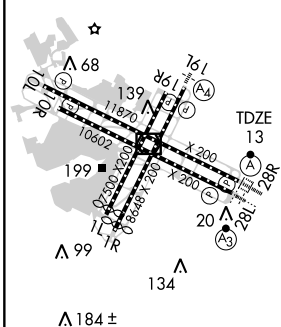
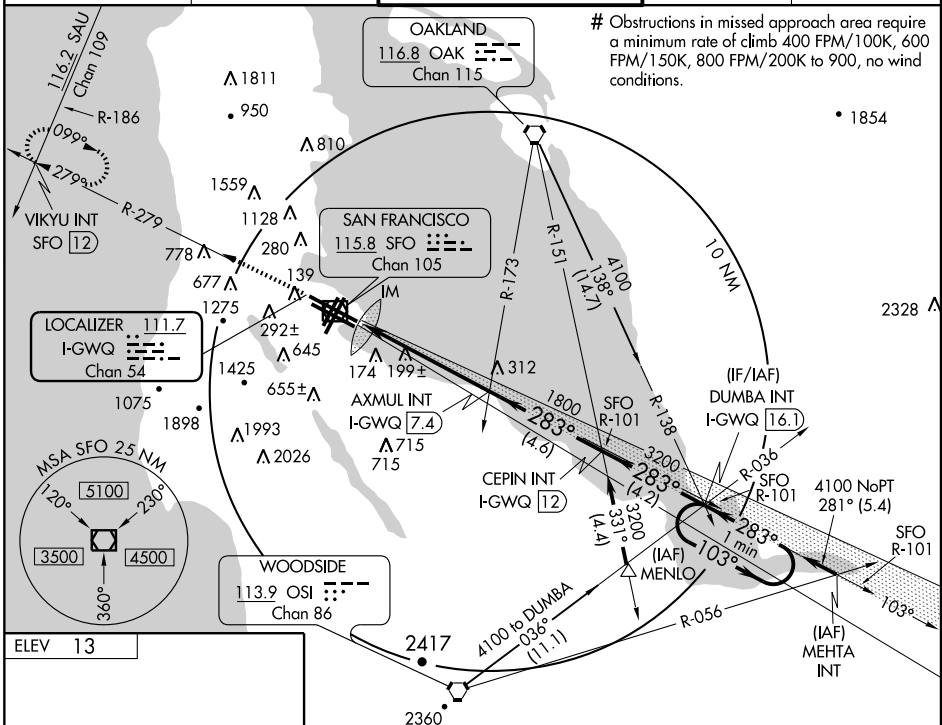


ALSF-2



MISSED APPROACH: Climb to 600, then climbing left turn to 3000 via heading 281° and SFO VOR/DME R-279 to VIKYU Int/SFO 12 DME and hold. #

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

Diagram illustrating the SFO ILS 28R approach path, showing altitudes, distances, and intersecting routes.

Altitudes (MSL): 600, 3000, 112, 1800, 3200, 4100.

Distances (NM): 8.50, 5.2 NM, 4.6 NM, 4.2 NM.

Intersecting Routes: VIKYU INT, AXMUL INT I-GWQ (7.4), CEPIN INT I-GWQ (12), DUMBA INT I-GWQ (16.1).

Heading: 103°, 283°.

Other Information: One Minute Holding Pattern, GS 3.00°, TCH 55.

CATEGORY	A	B	C	D
S-ILS 28R		CAT IIIa	RVR 07	
S-ILS 28R		CAT IIIb	RVR 06	
S-ILS 28R		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

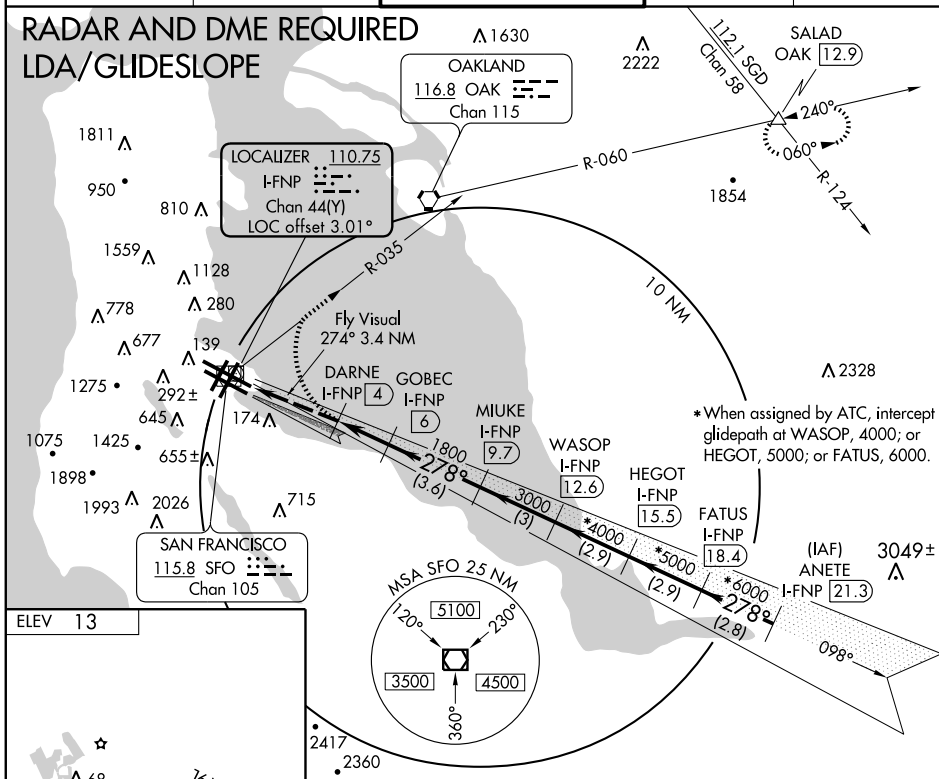
LOC/DME I-FNP 110.75 Chan 44(Y)	APP CRS 278°	Rwy Idg TDZE Apt Elev	11870 13 13
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LDA/DME RWY 28R SAN FRANCISCO INTL (SFO)

NA Runway 28L and 28R separated by 750 feet centerline to centerline. Procedure NA when glideslope is not available. Localizer course 119° right of Rwy 28R threshold. Inoperative table does not apply.	ALSF-2 	MISSED APPROACH: Climbing right turn to 6000 via heading 030° and SFO VOR/DME R-035 and OAK VORTAC R-060 to SALAD INT and hold, continue climb in hold to 6000.
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ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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RADAR AND DME REQUIRED LDA/GLIDESLOPE



LDA PRM RWY 28R (SIMULTANEOUS CLOSE PARALLEL) SAN FRANCISCO INTL (SFO)

LOC/DME I-FNP 110.75 Chan 44(Y)	APP CRS 278°	Rwy Idg TDZE Apt Elev	11870 13 13
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Simultaneous close parallel approach authorized with ILS PRM Rwy 28L.
Localizer only not authorized during close parallel operations.
Dual VHF comm required. See additional requirements on AAUP.
Runway 28L and 28R separated by 750 feet centerline to centerline.
Localizer course 1199' right of Rwy 28R threshold.
Inoperative table does not apply.

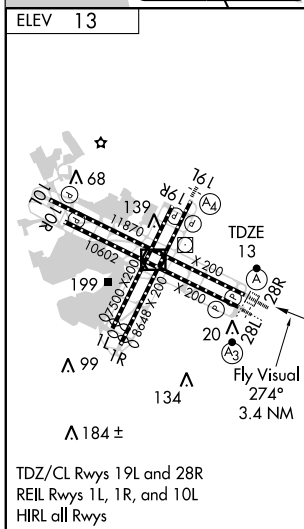
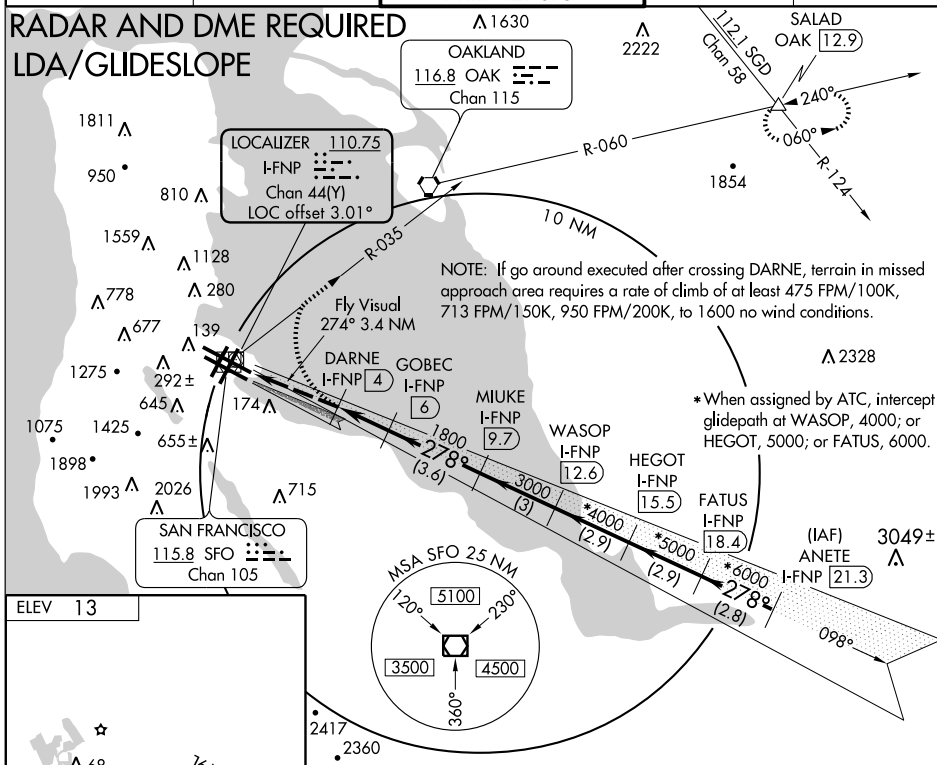
ALSF-2



MISSED APPROACH: Climbing right turn to 6000 via heading 030° and SFO VOR/DME R-035 and OAK VORTAC R-060 to SALAD INT and hold, continue climb in hold to 6000.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1 PRM 127.675	GND CON 121.8	CLNC DEL 118.2
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RADAR AND DME REQUIRED LDA/GLIDESLOPE



6000 030°	SFO R-035 115.8	OAK R-060 116.8	SALAD △	*When assigned by ATC, intercept glidepath at WASOP, 4000; or HEGOT, 5000; or FATUS, 6000.	ANETE I-FNP 21.3
DARNE I-FNP 4	GOBEC I-FNP 6	MIUKE I-FNP 9.7	WASOP I-FNP 12.6	HEGOT I-FNP 15.5	FATUS I-FNP 18.4
3.4 NM	1800	3000	4000*	5000*	6000*
3.4 NM	2 NM	3.6 NM	3 NM	2.9 NM	2.8 NM
TDZ/CL Rwy 19L and 28R	REIL Rwy 1L, 1R, and 10L	HIRL all Rwy			
CATEGORY S-LDA/GS 28R	A	B	C	D	
1140-4	1127	1200-4			

(SIMULTANEOUS CLOSE PARALLEL)

SAN FRANCISCO INTL (SFO)

SAN FRANCISCO, CALIFORNIA

ATTENTION ALL USERS PAGE (AAUP)**Condensed Briefing Points:**

- Listen to the PRM monitor frequency when communicating with the NORCAL approach control (frequency 120.35), no later than LOC intercept.
- Report the ILS traffic in sight as soon as practical and prior to DARNE. DO NOT PASS.
- Expect to be switched to SFO tower (120.5) at DARNE, (I-FNP 4.0 DME).
- Remain on the LDA until passing DARNE (LDA MAP) so as not to penetrate the NTZ.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

1. **ATIS.** When the ATIS broadcast advises that simultaneous ILS/PRM and LDA/PRM approaches are in progress, pilots should brief to fly the LDA/PRM 28R approach. If later advised to expect an LDA/DME 28R approach, the LDA/PRM 28R chart may be used after completing the following briefing items:

- (a) Minimums and missed approach procedures are unchanged.
- (b) Monitor frequency no longer required.
- (c) A different glideslope intercept altitude may be assigned when advised to expect LDA/DME 28R approach.

Simultaneous parallel approaches will only be offered/conducted when the weather is at least 2100 feet (ceiling) and 4 miles (visibility).

2. **Dual VHF Communication required.** To avoid blocked transmissions, each runway will have two frequencies, a primary and a PRM monitor frequency. The NORCAL approach controller will transmit on both frequencies. The PRM Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the approach controller's frequency (120.35), but will listen to both frequencies. Select the PRM monitor frequency audio only when in contact with the NORCAL approach control (120.35). The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked. If executing a missed approach at DARNE, begin the turn as soon as practical.

3. **ALL "Breakouts"** are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.

- (a) ATC Directed "Breakouts": ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1000 feet required obstruction clearance. The applicable MVA is 1600 feet at SFO.
- (b) Phraseology - "TRAFFIC ALERT" : If an aircraft enters the "NO TRANSGRESSION ZONE" (NTZ), the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
"TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".

4. **Glide Slope Navigation:** Descending on the glide slope ensures compliance with any charted crossing restrictions.

5. **SFO LDA Visual Segment.** If ATC advises that there is traffic on the 28L ILS, pilots are authorized to continue past the LDA 28R MAP to align with runway 28R centerline when:

- (a) the ILS traffic is in sight and is expected to remain in sight.
- (b) ATC has been advised that "traffic is in sight." (ATC is not required to acknowledge this transmission.)
- (c) the runway environment is in sight.

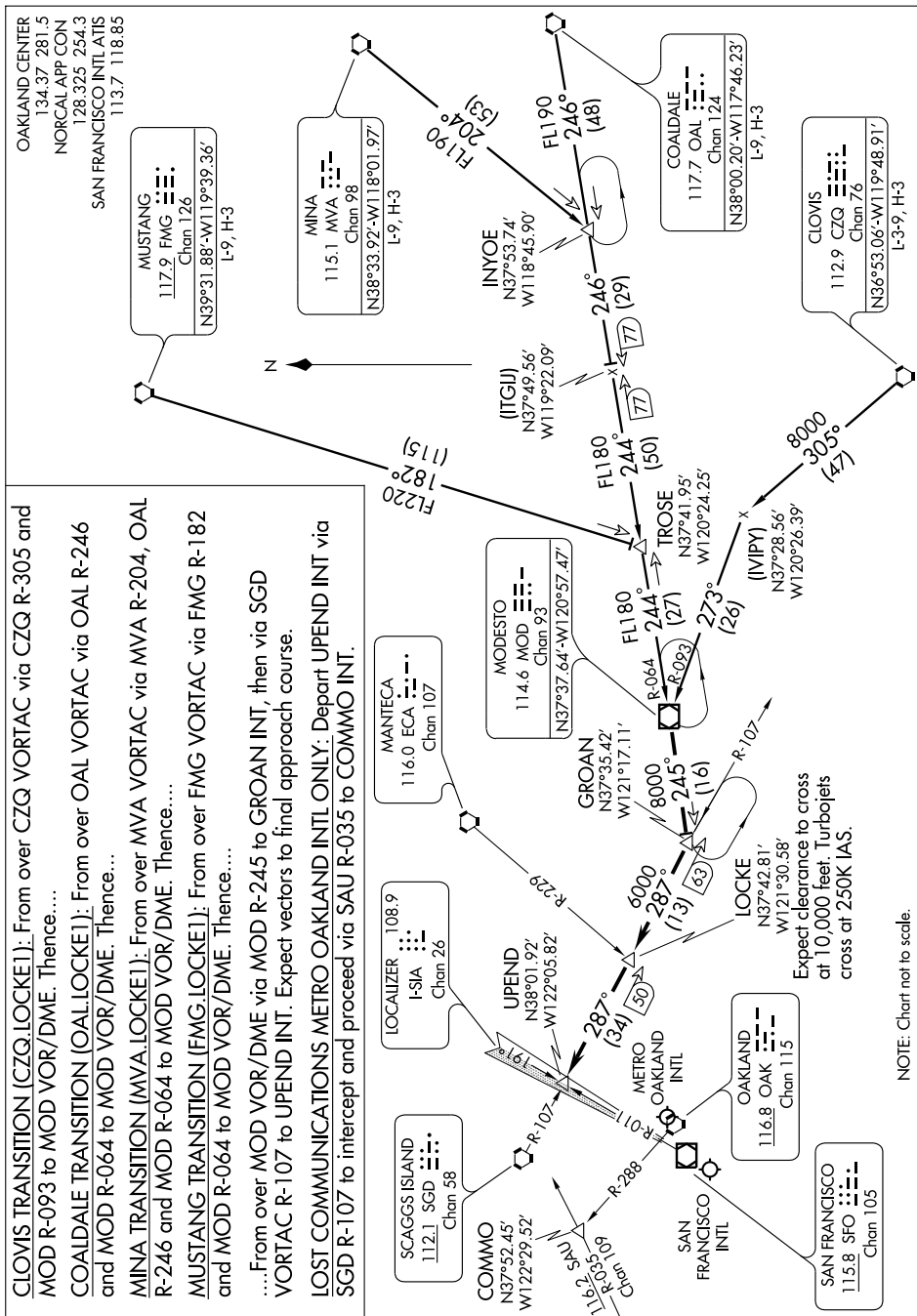
Otherwise, a missed approach must be executed at the LDA MAP. Between DARNE and the runway threshold, pilots of the LDA aircraft are responsible for separating themselves visually from traffic on the ILS approach, which means maneuvering the aircraft as necessary to avoid the ILS traffic until landing (do not pass), and providing wake turbulence avoidance, if applicable. If visual contact with the ILS traffic is subsequently lost, advise ATC as soon as practical and execute the published missed approach unless otherwise instructed by ATC.

Refer to "special pilot training required" on the ILS PRM 28L AAUP for specific non-participation procedures.

LOCKE ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



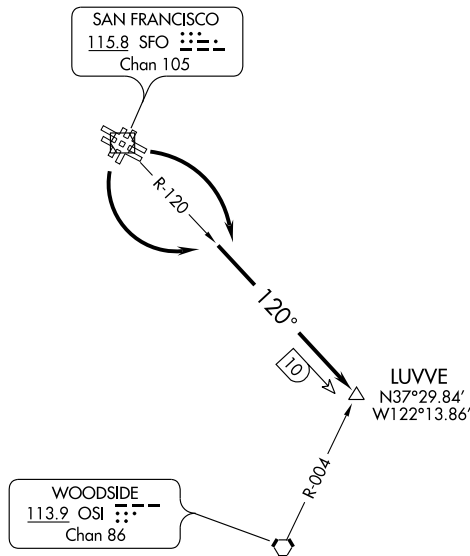
SW-2, 14 JAN 2010 to 11 FEB 2010

LUVVE TWO DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ATIS 135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2



NOTE: Rwy 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.
For obstacle clearance the following minimum climb rates are required:
Rwy 19L, 480' per NM to 1400'.
Rwy 19R, Categories A, B, 480' per NM to 1400';
Categories C, D, 530' per NM to 1800'.

NOTE: Chart not to scale.

SW-2, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn right and climb via SFO R-120 to LUVVE INT, expect vector to assigned route/fix after LUVVE INT. Expect further clearance to filed altitude 10 minutes after departure.

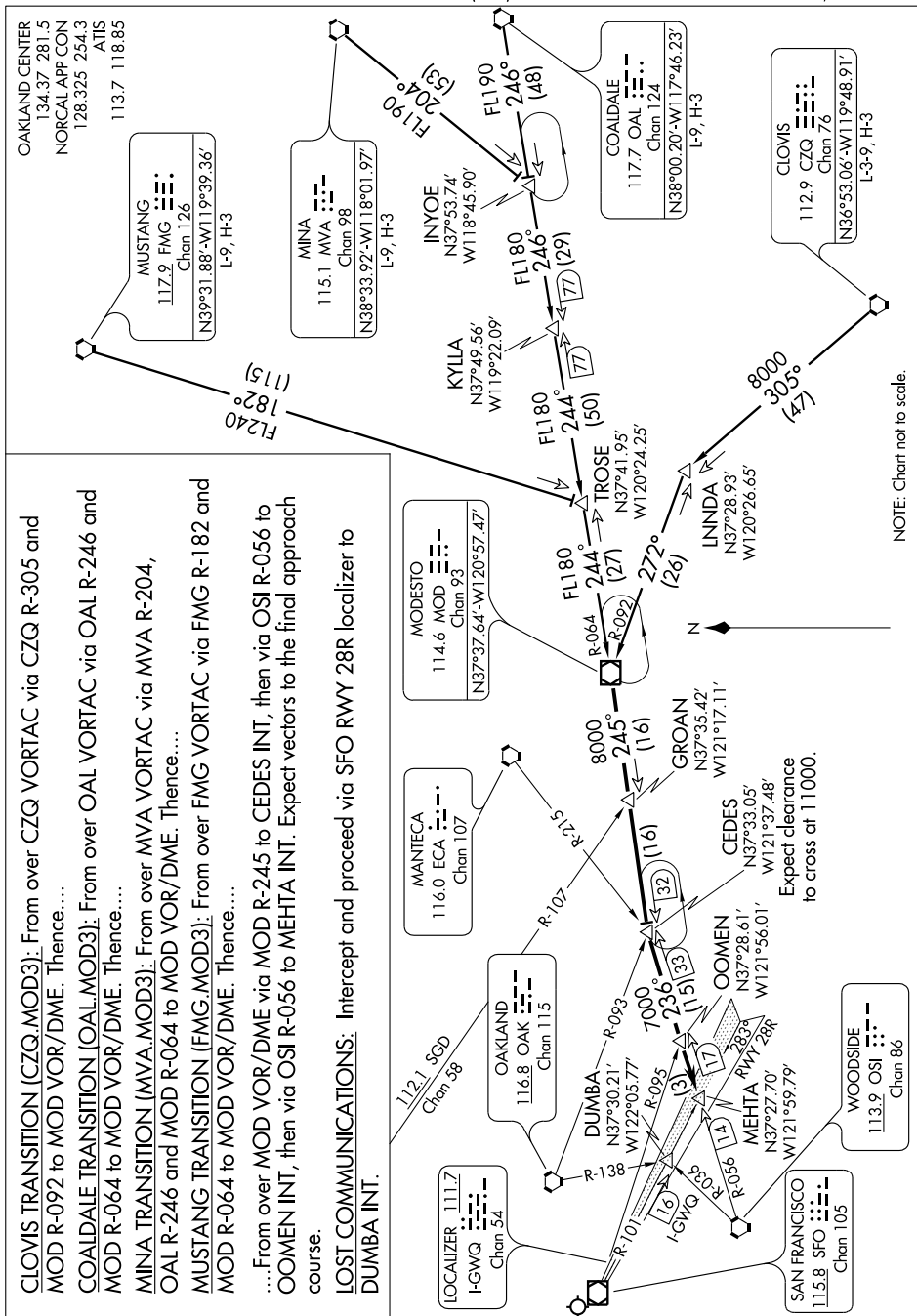
TAKE-OFF RUNWAYS 19L/R: Turn left and climb via SFO R-120 to LUVVE INT, expect vector to assigned route/fix after LUVVE INT. Expect further clearance to filed altitude 10 minutes after departure.

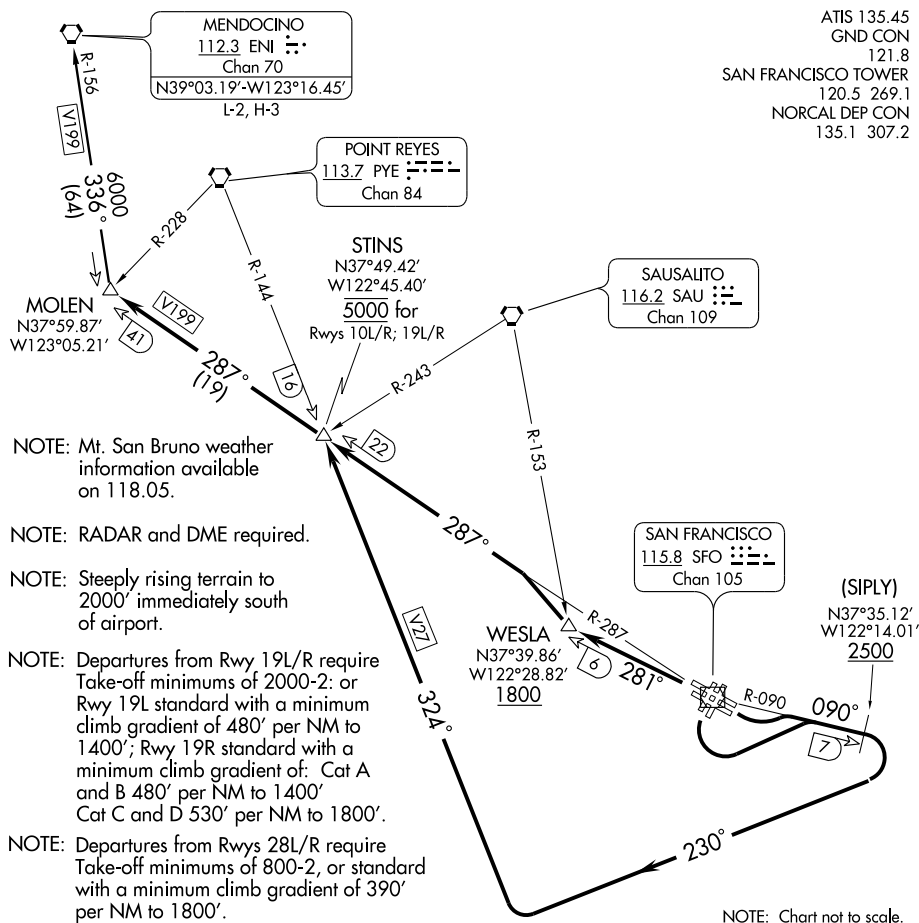
LOST COMMUNICATIONS:

TAKE-OFF RUNWAYS 10L/R and 19L/R: If not in contact with departure control after reaching 3000' continue climb to assigned altitude and proceed direct to assigned route/fix.

MODESTO THREE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO INTL
SAN FRANCISCO, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via the SFO R-090 to the 7 DME Fix, then turn right heading 230° to intercept and proceed via PYE R-144 to STINS INT. Cross the SFO R-090 7 DME Fix at or above 2500'. Cross STINS INT at 5000'. Thence via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via SFO R-281 to WESLA INT, then turn right to intercept and proceed via SFO R-287 to MOLEN INT. Cross the SFO R-281 6 DME Fix (WESLA INT) at or above 1800'. Thence via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

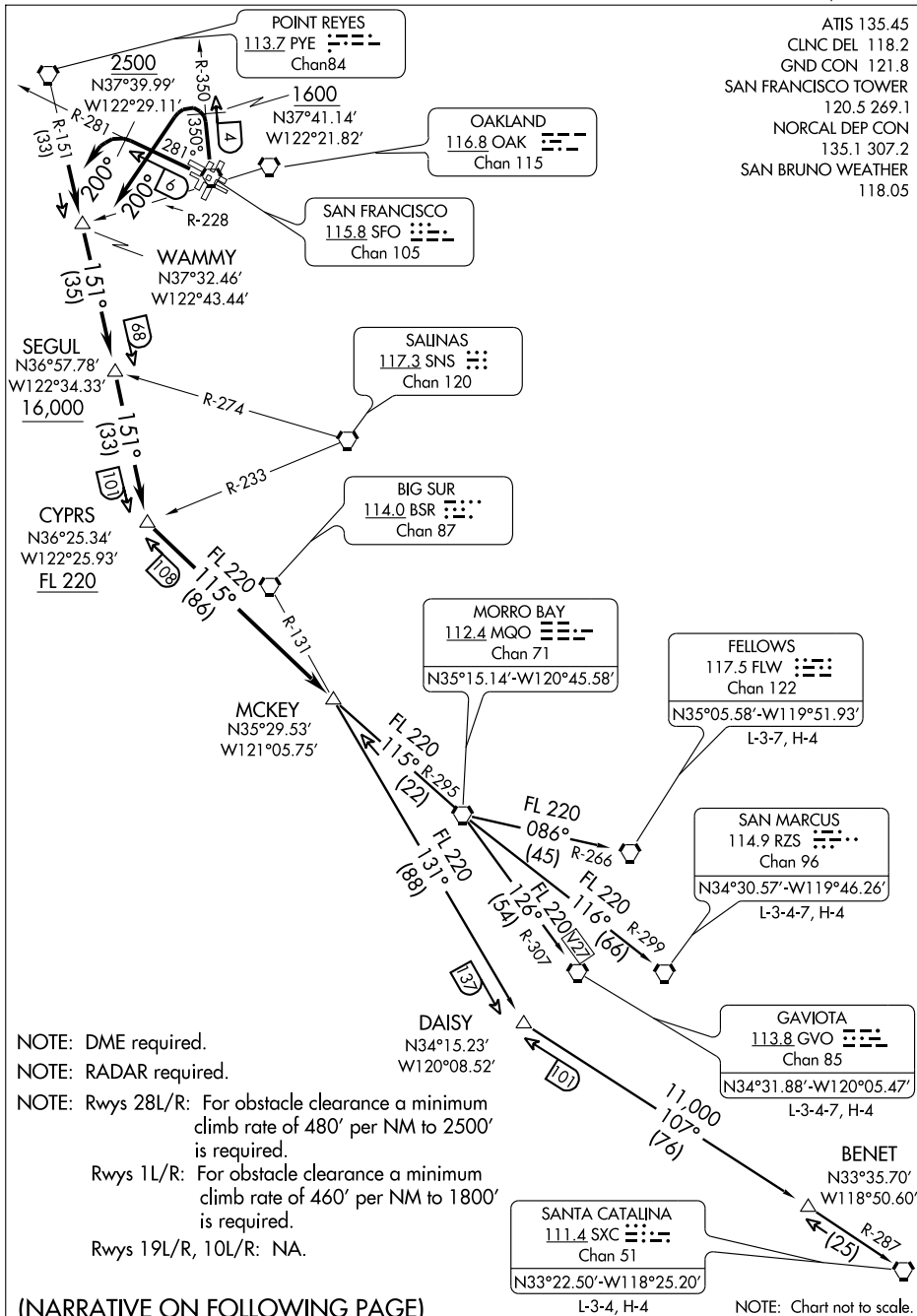
MENDOCINO TRANSITION (MOLEN3.ENI): From over MOLEN INT via ENI R-156
ENI VORTAC.

SW-2. 14 JAN 2010 to 11 FEB 2010

OFFSHORE FIVE DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Intercept and proceed via SFO R-350. Cross SFO R-350 4 DME at or above 1600'. Thence....

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via SFO R-281. Cross SFO R-281 6 DME at or above 2500'. Thence....

.... Turn left heading 200° to intercept and proceed via PYE R-151 to SEGUL INT. Cross SEGUL INT at or above 16,000'. Then proceed via PYE R-151 to CYPRS INT; cross CYPRS INT at or above FL 220. Then via the MQO R-295 to MCKEY INT, then via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure. When SFO VOR/DME is inoperative, Runway 28 departures expect radar vector to PYE R-151, then resume departure.

FELLOWS TRANSITION (OFFSH5.FLW): From over MCKEY INT via MQO R-295 to MQO VORTAC, then via MQO R-086 and FLW R-266 to FLW VORTAC.

GAVIOTA TRANSITION (OFFSH5.GVO): From over MCKEY INT via MQO R-295 to MQO VORTAC, then via MQO R-126 and GVO R-307 to GVO VORTAC.

SAN MARCUS TRANSITION (OFFSH5.RZS): From over MCKEY INT via MQO R-295 to MQO VORTAC, then via MQO R-116 and RZS R-299 to RZS VORTAC.

SANTA CATALINA TRANSITION (OFFSH5.SXC): From over MCKEY INT via BSR R-131 and SXC R-287 to SXC VORTAC.

NORCAL APP CON
133.95 317.6
SAN FRANCISCO TOWER
120.5 269.1
SAN FRANCISCO INTL ATIS
113.7 118.85
SAN CARLOS TOWER ★
119.0 326.2
SAN CARLOS ATIS
125.9
PALO ALTO TOWER ★
118.6
PALO ALTO ATIS
135.275
MOFFETT FEDERAL AFLD TO
119.55 346.25
MOFFETT FEDERAL AFLD AT
124.175 283.0
SAN JOSE TOWER ★
124.0 257.6
NORMAN Y. MINETA
SAN JOSE INTL ATIS
126.95
REID-HILLVIEW TOWER ★
119.8 RWY 13L/31R
126.1 RWY 13R/31L
REID-HILLVIEW ATIS
125.2

MENDOCINO
112.3 ENI $\div$
Chan 70
N39°03.19'-W123°16.45'

SANTA ROSA
113.0 STS
Chan 77

MAXWELL
110.0 MXW 
Chan 37
N39°19.06'-W122°13.29'
I-2

SACRAMENTO
115.2 SAC ..
Chan 99
N38°26.62'-W121°33.10'
1-2-3 H-3

POPES
N38°29.16'
W122°20.75'

SCAGGS ISLAND
112.1 SGD 
Chan 58

SAUSALITO
116.2 SAU 
Chgn 109

SAN FRANCISCO
115.8 SFO 
Chan 105

OAKLAND
116.8 OAK 
Chan 115

POINT REYES
113.7 PYE 
Chan 84
N38°04.79'-W122°52.07'

STINS 
N37°49.42'
W122°45.40'

1445
(27)

 SAN FRANCISCO
INTL

HADLY Δ 0/6 $\rightarrow$ R-256
N37°24.14' (14) FT
W122°34.54'

WOODSIDE
113.9 OSI
Chan 86
N37°23.55'-W122°16.88'

PALO ALTO AIRPORT OF
SANTA CLARA COUNTY

SAN CARLOS

MOFFETT
FEDERAL AIRFIELD

NORMAN Y. MINETA
SAN JOSE INTL

REID-HILLVIEW
OF SANTA CLARA
COUNTY

NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

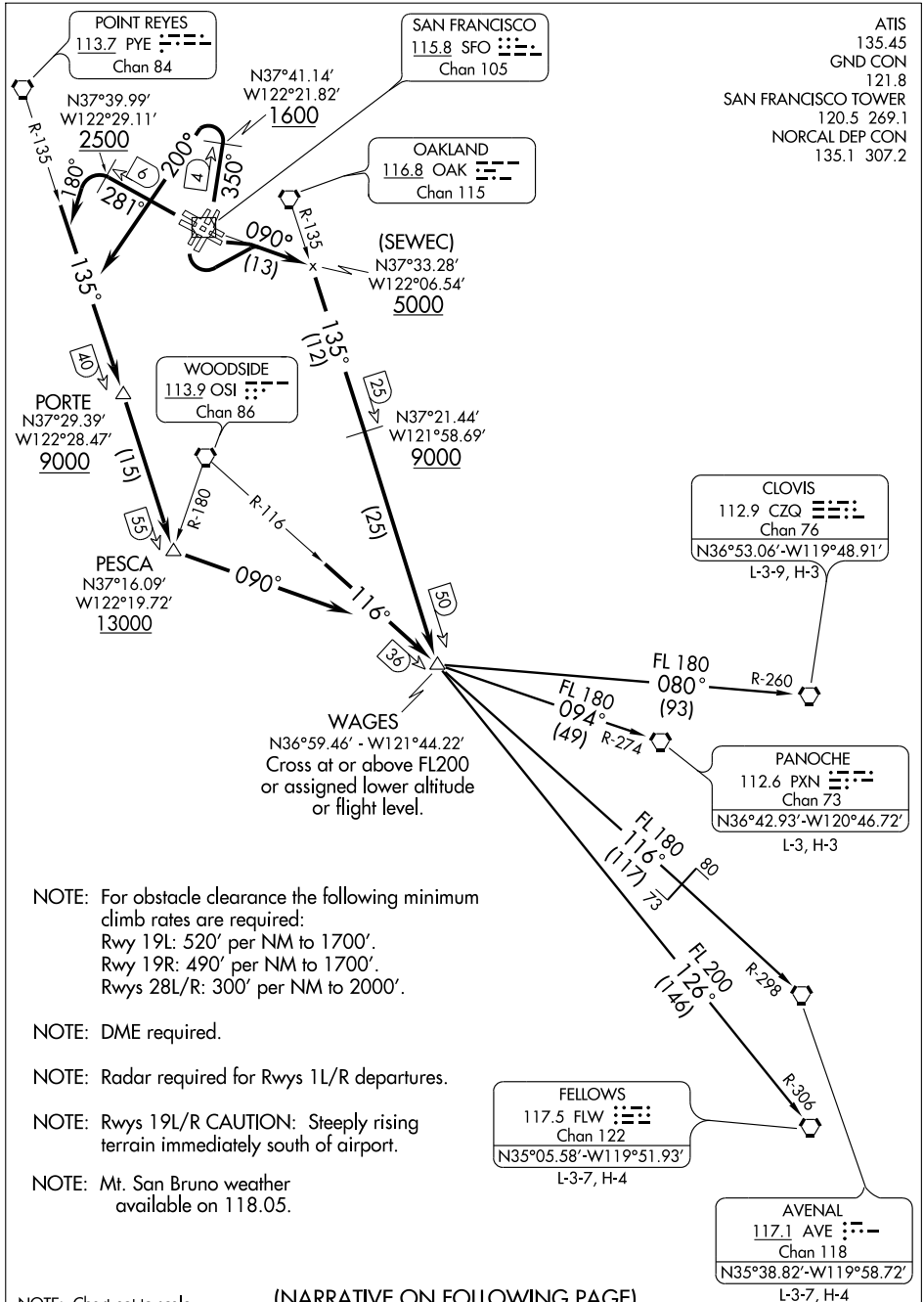
MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

PORTE THREE DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Intercept and proceed via SFO R-350. Cross SFO R-350/4 DME fix at or above 1600'. Turn left heading 200° to intercept and proceed via PYE R-135. Cross PORTE DME fix at or above 9000' and PESCA DME fix at or above 13,000'. Then turn left heading 090° to intercept and proceed via the OSI R-116 to WAGES INT. Cross WAGES INT at or above FL 200 or assigned lower altitude or flight level. Thence via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via the SFO R-090 to intercept the OAK R-135 at or above 5000'. Proceed via the OAK R-135 to WAGES INT. Cross the OAK R-135/25 DME fix at or above 9000'. Cross WAGES INT at or above FL 200 or assigned lower altitude or flight level. Thence via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the SFO R-281, cross SFO R-281/6 DME fix at or above 2500', then turn left heading 180° to intercept and proceed via the PYE R-135 to cross PORTE DME fix at or above 9000' and PESCA DME fix at or above 13,000'. Then turn left heading 090° to intercept and proceed via the OSI R-116 to WAGES INT. Cross WAGES INT at or above FL 200 or assigned lower altitude or flight level. Thence via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure. When SFO VOR/DME is inoperative, Rwy 28 departures expect radar vector to PYE R-135 then resume SID.

AVENAL TRANSITION (PORTE3.AVE): From over WAGES INT via OSI R-116 and AVE R-298 to AVE VORTAC.

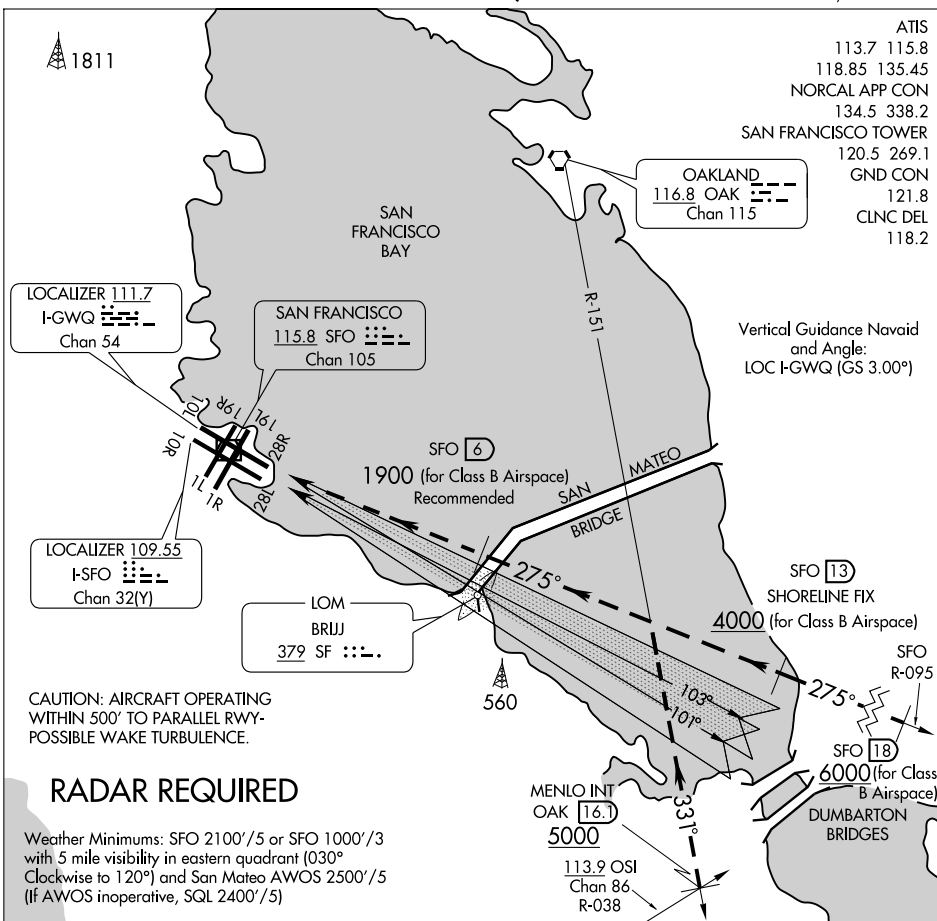
CLOVIS TRANSITION (PORTE3.CZQ): From over WAGES INT via CZQ R-260 to CZQ VORTAC.

FELLOWS TRANSITION (PORTE3.FLW): From over WAGES INT via FLW R-306 to FLW VORTAC.

PANOCHÉ TRANSITION (PORTE3.PXN): From over WAGES INT via PXN R-274 to PXN VORTAC.

QUIET BRIDGE VISUAL RWYS 28L/R

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



QUIET BRIDGE VISUAL APPROACH RWYS 28L/R

When visual approaches to Runways 28L/R are in progress, arriving aircraft may be vectored into a position for a straight-in visual approach to Runways 28L/R via the SFO VOR R-095.

SFO VOR and DME must be operating.

Aircraft should remain on the SFO R-095 until passing the San Mateo Bridge.

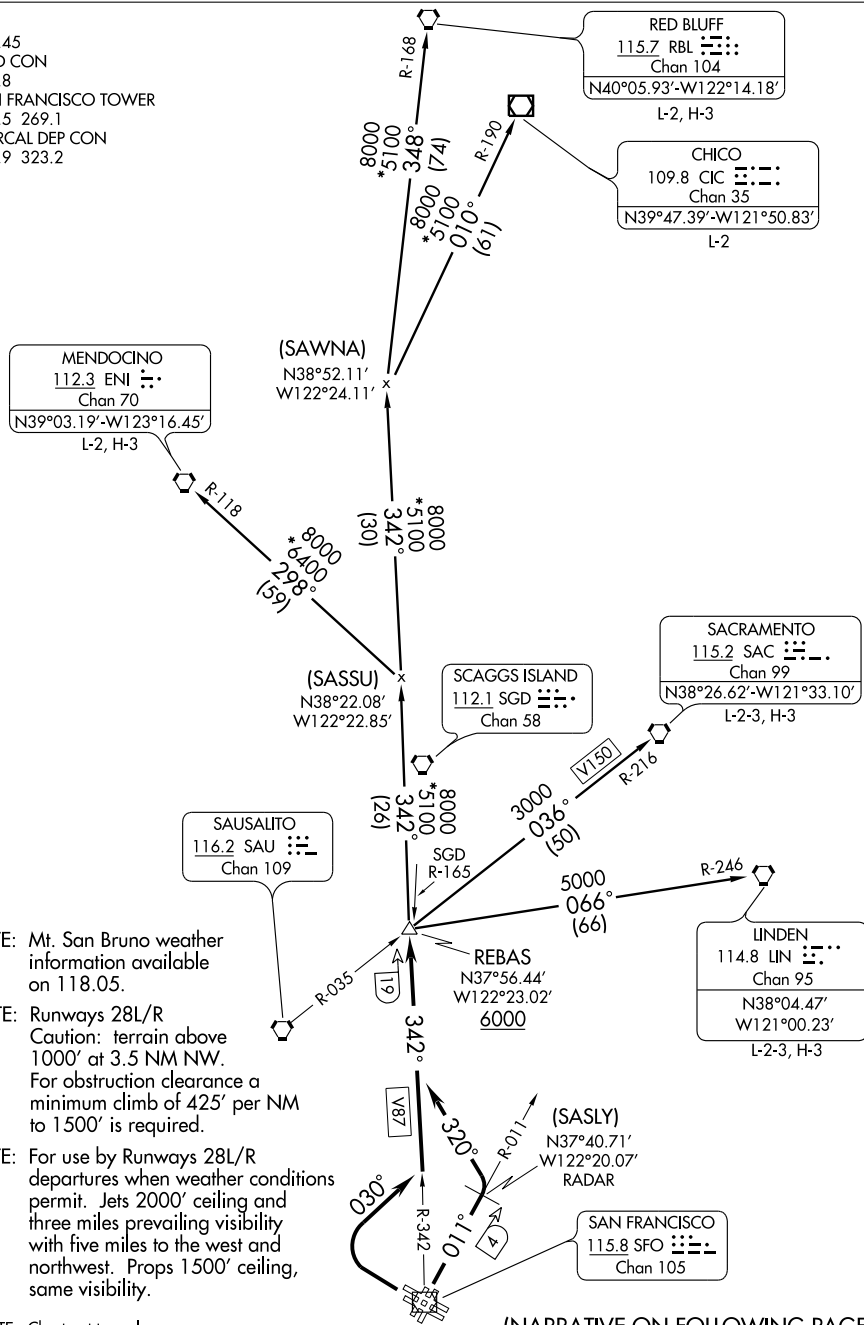
NOTE: Closely spaced parallel visual approaches may be in progress to Runway 28L utilizing I-SFO. In the event of a go-around on Runway 28L, turn left heading 265°, or on Runway 28R, turn right heading 310°, climb and maintain 3000, or as directed by Air Traffic Control.

QUIET TWO DEPARTURE

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SL-375 (FAA)

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2



(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via SFO R-011 to the 4 DME/Radar then turn left heading 320° to intercept and proceed via SFO R-342 to cross REBAS INT at or above 6000'. Thence via (transition) or (assigned route). Expect clearances to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Turn right heading 030° to intercept and proceed via the SFO R-342 to REBAS INT. Cross REBAS INT at or above 6000'. Then via (transition) or (assigned route). Maintain VFR conditions until intercepting SFO R-342. Expect clearance to filed altitude 10 minutes after departure.

CHICO TRANSITION (CUIT2.CIC): From over REBAS INT via SFO R-342 and CIC R-190 to CIC VOR/DME.

LINDEN TRANSITION (CUIT2.LIN): From over REBAS INT via LIN R-246 to LIN VORTAC.

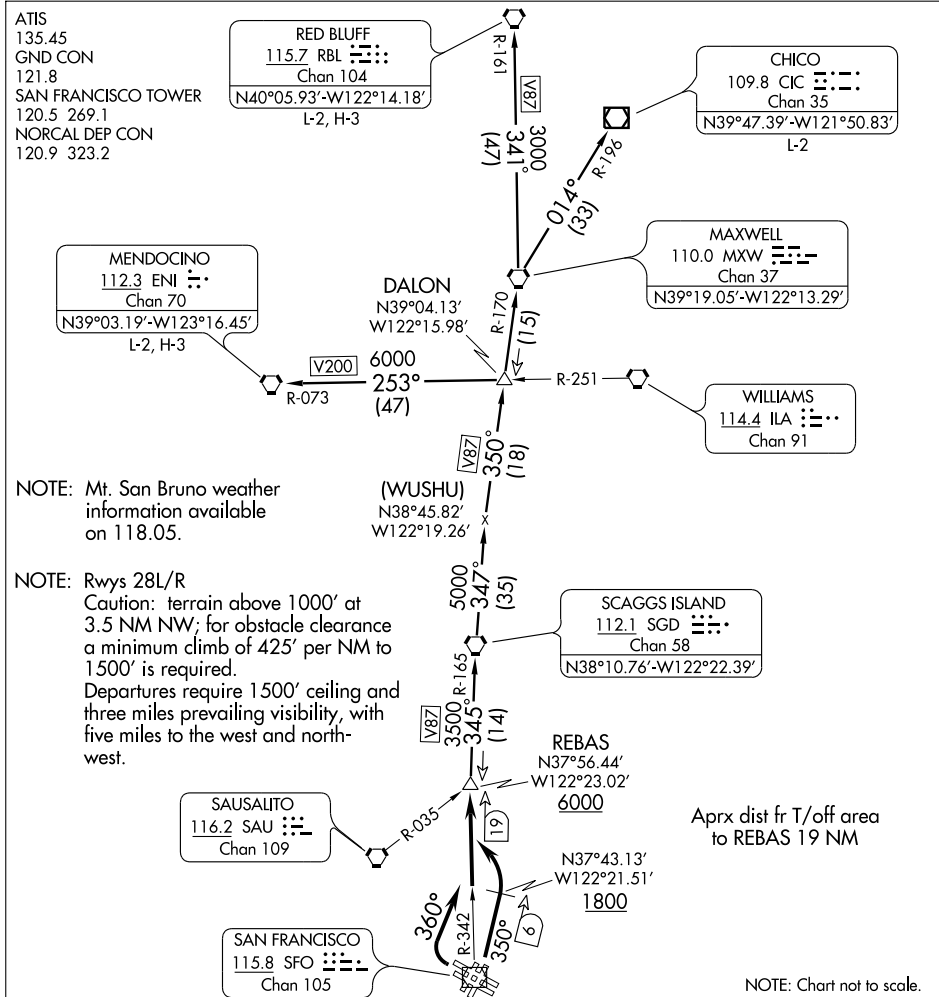
MENDOCINO TRANSITION (CUIT2.ENI): From over REBAS INT via SFO R-342 and ENI R-118 to ENI VORTAC.

RED BLUFF TRANSITION (CUIT2.RBL): From over REBAS INT via SFO R-342 and RBL R-168 to RBL VORTAC.

SACRAMENTO TRANSITION (CUIT2.SAC): From over REBAS INT via SAC R-216 to SAC VORTAC.

REBAS THREE DEPARTURE (PROP)

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via the SFO R-350 to cross the 6 DME fix at or above 1800', then turn left to intercept and proceed via the SFO R-342, to cross REBAS INT at or above 6000'. Thence....

TAKE-OFF RUNWAYS 28L/R: Turn right heading 360° (or as assigned) to intercept and proceed via the SFO R-342 to REBAS INT. Cross REBAS INT at or above 6000'. Thence....

....via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

CHICO TRANSITION (REBAS3.CIC): From over REBAS INT via SGD R-165 to SGD VORTAC then SGD R-347 and MXW R-170 to MXW VORTAC. Then via MXW R-014 to CIC VOR/DME.

MENDOCINO TRANSITION (REBAS3.ENI): From over REBAS INT via SGD R-165 to SGD VORTAC, then via SGD R-347 and MXW R-170 to DALON INT, then via ENI R-073 to ENI VORTAC.

RED BLUFF TRANSITION (REBAS3.RBL): From over REBAS INT via SGD R-165 to SGD VORTAC then via SGD R-347 and MXW R-170 to MXW VORTAC. Then via MXW R-341 and RBL R-161 to RBL VORTAC.

APP CRS	Rwy Idg	11870
101°	TDZE	7
	Apt Elev	13

RNAV (GPS) RWY 10L
SAN FRANCISCO INTL (SFO)

A NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

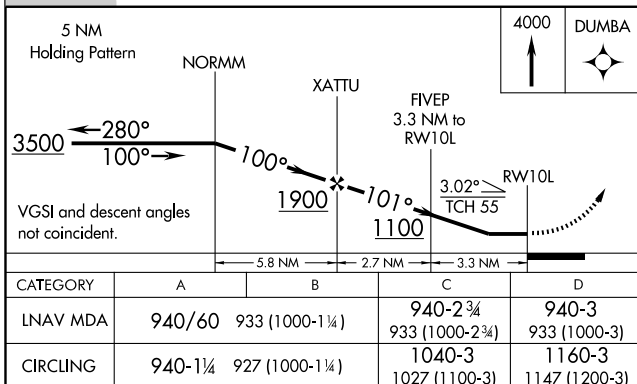
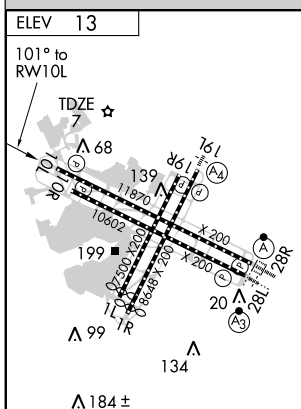
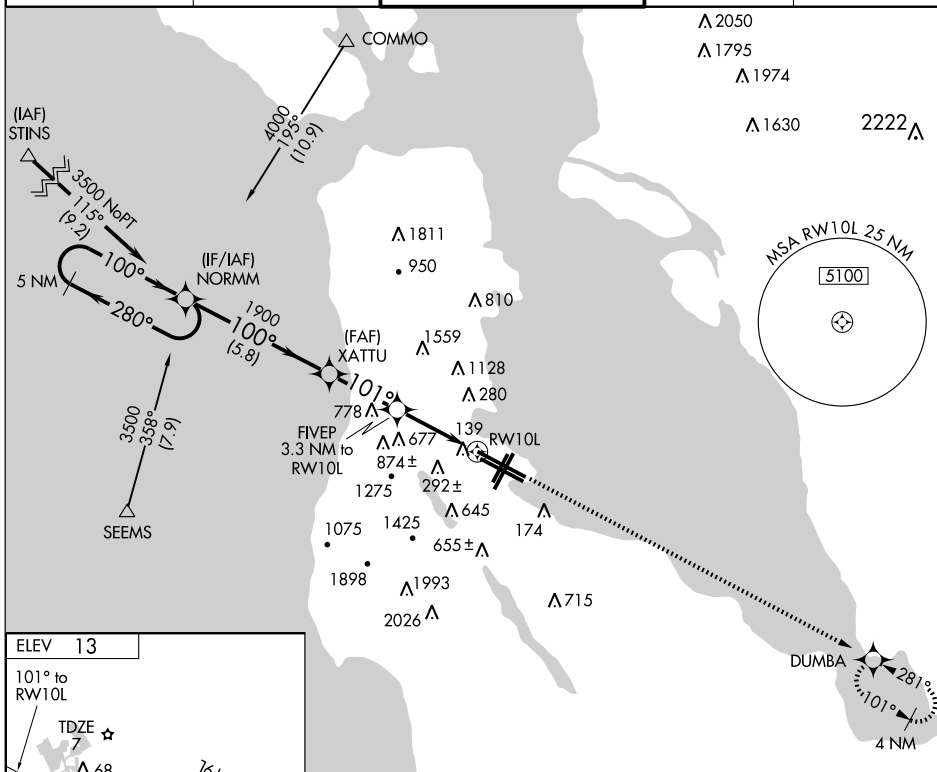
MISSED APPROACH: Climb to 4000 direct DUMBA WP and hold.

ATIS
113.7 115.8
118.85 135.45

NORCAL APP CON
184.5 888.8

SAN FRANCISCO TOWER
120.5 269.1

GND CON
121.8

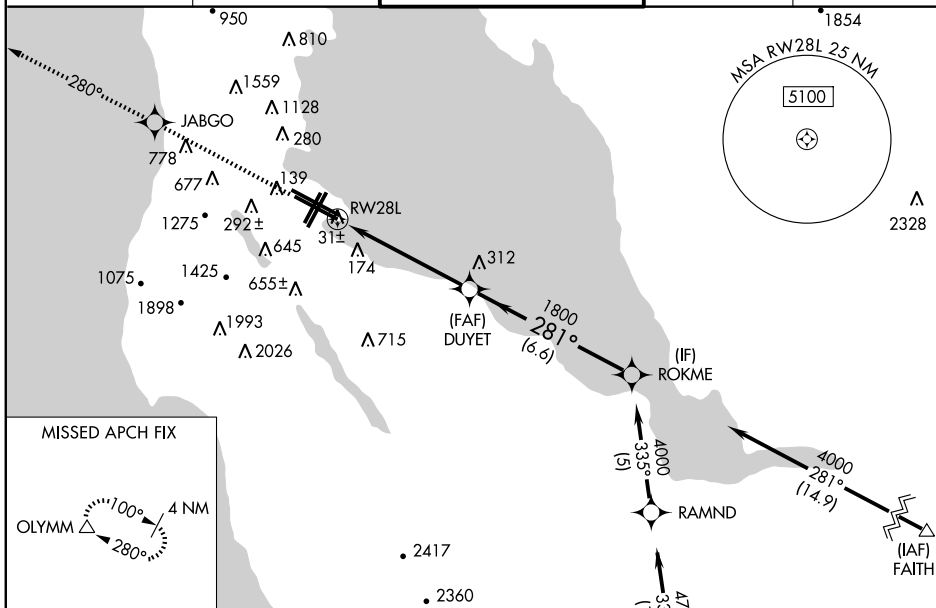
CLNC DEL
118.2

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R, and 10L
HIRL all Rwy

RNAV (GPS) RWY 28L
SAN FRANCISCO INTL (SFO)

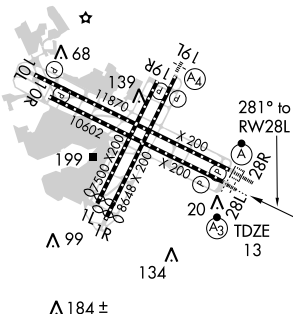
MISSED APPROACH: Climb to 4000 direct JABGO and via track 280° to OLYMM and hold.

ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON	CLNC DEL
113.7 115.8				
118.85 135.45	134.5 338.2	120.5 269.1	121.8	118.2

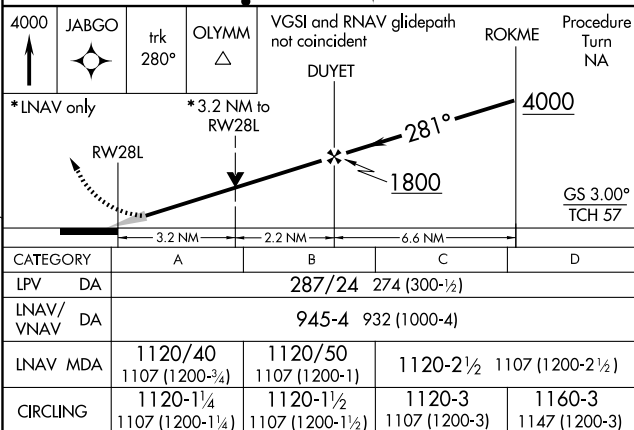


SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 13



TDZ/CL Rwy's 19L and 28R
REIL Rwy's 1L, 1R and 10L
HIRL all Rwy's

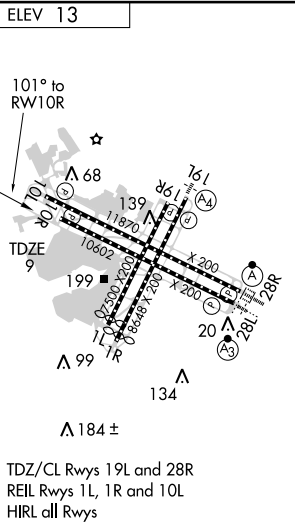
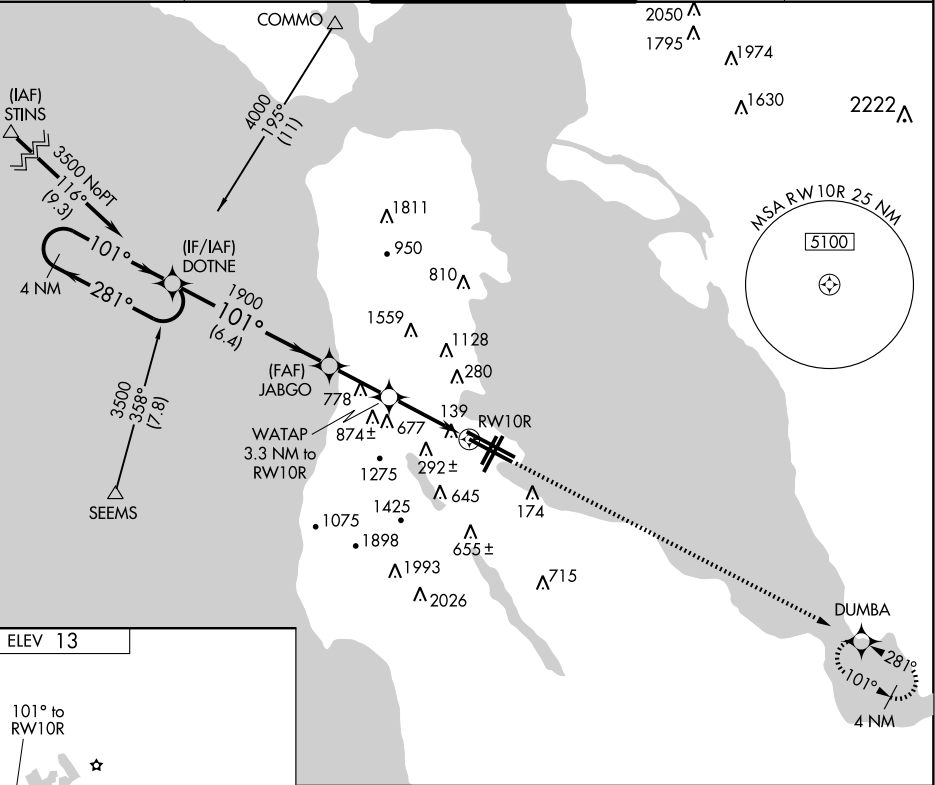


APP CRS	Rwy Idg	10602
101°	TDZE	9
	Apt Elev	13

RNAV (GPS) X RWY 10R
SAN FRANCISCO INTL (SFO)

NA	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 4000 direct DUMBA and hold.
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ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4 NM Holding Pattern		DOTNE	JABGO	WATAP 3.3 NM to RW10R	4000	DUMBA
3500		281°	101°	101°	1900	1100
VGSI and descent angles not coincident.		6.4 NM	2.4 NM	3.3 NM		
CATEGORY	A	B	C	D		
LNAV MDA	980/60 971 (1000-1¼)	980-1½ 971 (1000-1½)	980-3 971 (1000-3)			
CIRCLING	980-1¼ 967 (1000-1¼)	980-1½ 967 (1000-1½)	1040-3 1027 (1100-3)	1160-3 1147 (1200-3)		

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

SSALS

MISSED APPROACH: Climbing left turn to 4000 direct to DUMBA WP and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4000	DUMBA	VGSI and descent angles not coincident.	BERKS	
		EXUSE 3.8 NM to ZIMYU		
		SHAKE		
		2900		
		1360		
		0.7 NM to ZIMYU		
		3.1 NM		
		4.8 NM		
		7 NM		
		191°		
		4000		
		Procedure Turn NA		
CATEGORY	A	B	C	D
LNAV MDA	360/40	349 (400-34)	360/60	349 (400-14)
CIRCLING	760-1 747 (800-1)	940-14 927 (1000-14)	1040-3 1027 (1100-3)	1160-3 1147 (1200-3)

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

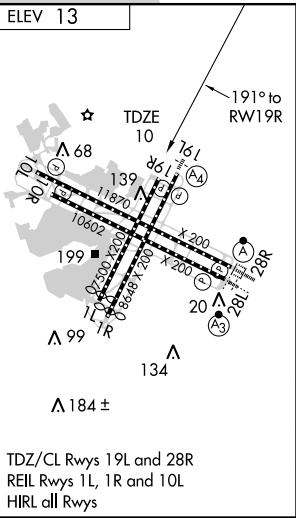
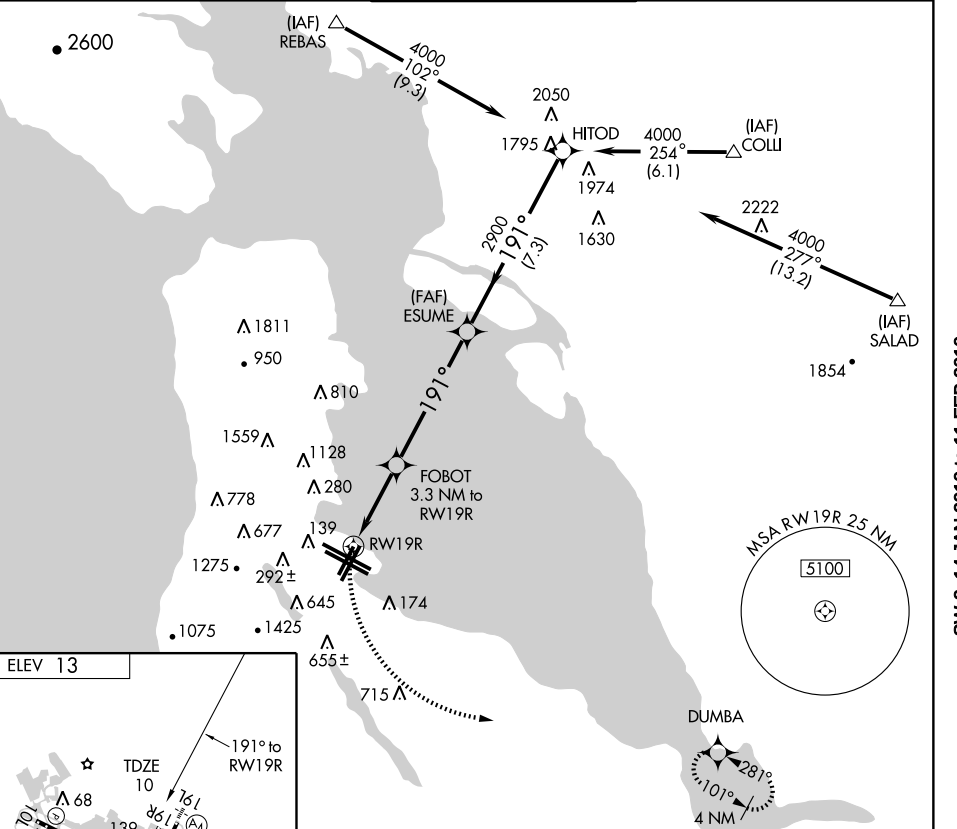
SW-2, 14 JAN 2010 to 11 FEB 2010

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

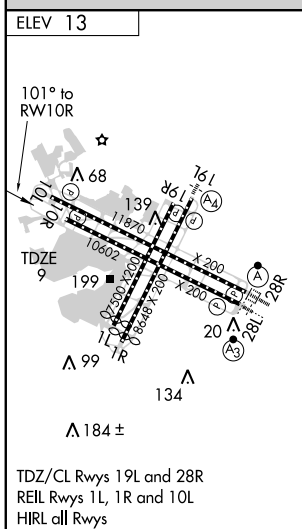
MISSED APPROACH: Climbing left turn to 4000 direct to DUMBA WP and hold.

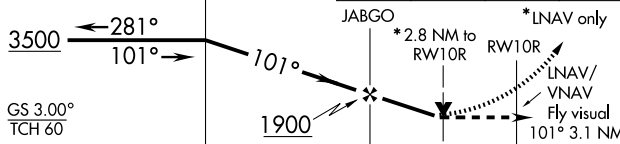
ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4000	DUMBA	VGSI and descent angles not coincident.		HITOD
		FOBOT 3.3 NM to RWY 19R	ESUME	4000
		$\leq 3.08^\circ$ TCH 47		Procedure Turn NA
3.3 NM	5.4 NM	7.3 NM		
CATEGORY	A	B	C	D
LNAV MDA	400/50 390 (400-1)			400/60 390 (400-1½)
CIRCLING	760-1 747 (800-1)	940-1½ 927 (1000-1½)	1040-3 1027 (1100-3)	1160-3 1147 (1200-3)

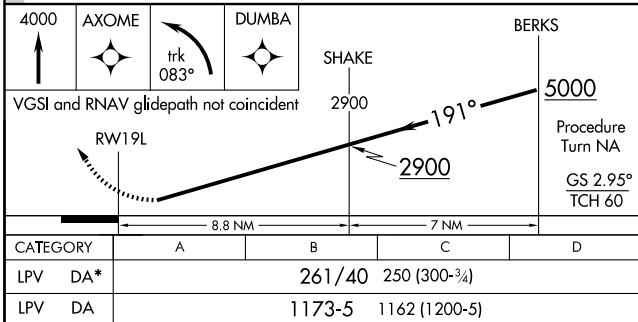
ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4 NM Holding Pattern		VGSJ and descent angles not coincident.		4000 ↑		OKDUE 		100° trk 		DUMBA 	
 3500 ← 281° → 101° → 101° → JABGO * 2.8 NM to RW10R RW10R * LNAV only GS 3.00° TCH 60 1900 6.4 NM 2.9 NM 2.8 NM LNAV/VNAV Fly visual 101° 3.1 NM											
CATEGORY		A		B		C		D			
GLS PA DA		NA									
LNAV/ VNAV DA		1060-2		1051 (1100-2)		1060-3		1051 (1100-3)			
LNAV MDA		1060/60 1051 (1100-1¼)		1060-1½ 1051 (1100-1½)		1060-3		1051 (1100-3)			
CIRCLING		1060-2		1047 (1100-2)		1060-3 1047 (1100-3)		1160-3 1147 (1200-3)			

RNAV (GPS) Z RWY 19L
SAN FRANCISCO INTL (SFO)

MISSED APPROACH: Climb to 4000 direct AXOME and left turn via track 083° to DUMBA and hold, continue climb-in-hold.



T

NA

W

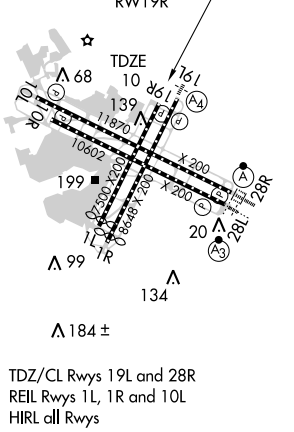
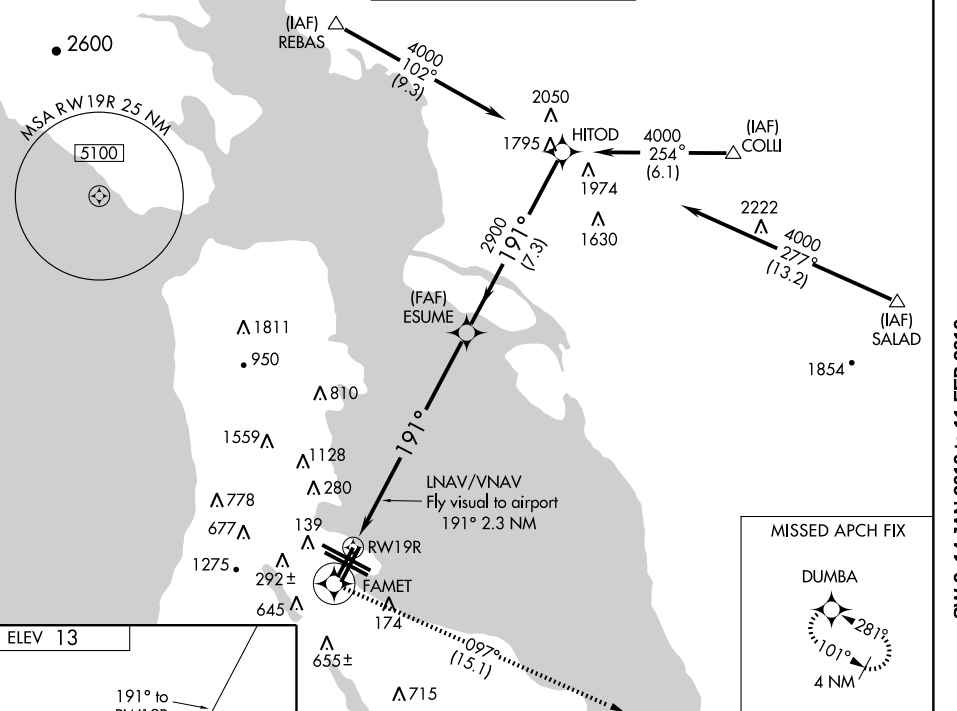
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Baro-VNAV NA below -15°C (5°F).

LNAV/VNAV: Fly visual to airport 191° - 2.3 NM.

MISSED APPROACH: Climb to 4000 direct FAMET WP and left turn via 097° track to DUMBA WP and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4000 ↑	FAMET 	097° trk 	DUMBA 	ESUME	HITOD
VGSI and descent angles not coincident.					4000
LNAV/ VNAV Fly visual 191° 2.3 NM	RW19R 				Procedure Turn NA GS 3.00° TCH 47
2.3		6.4 NM		7.3 NM	
CATEGORY	A		B	C	D
GLS PA DA	NA				
LNAV/ VNAV DA	800-2	790 (800-2)	800-2¼ 790 (800-2¼)	800-2½ 790 (800-2½)	
LNAV MDA	1060/60 1050 (1100-1¼)	1060-1½ 1050 (1100-1½)	1060-3	1050 (1100-3)	
CIRCLING	1060-2	1047 (1100-2)	1060-3 1047 (1100-3)	1160-3 1147 (1200-3)	

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 81828 W28A	APP CRS 281°	Rwy Idg 11870 TDZE 13 Apt Elev 13
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RNAV (GPS) Z RWY 28R

SAN FRANCISCO INTL (SFO)

T DME/DME RNP-0.3 NA.
A Baro-VNAV NA below -15°C (5°F).
 Inoperative table does not apply to LNAV/VNAV.
 For inoperative ALSF, increase LPV all Cats visibility to RVR 4000.

ALSF-2



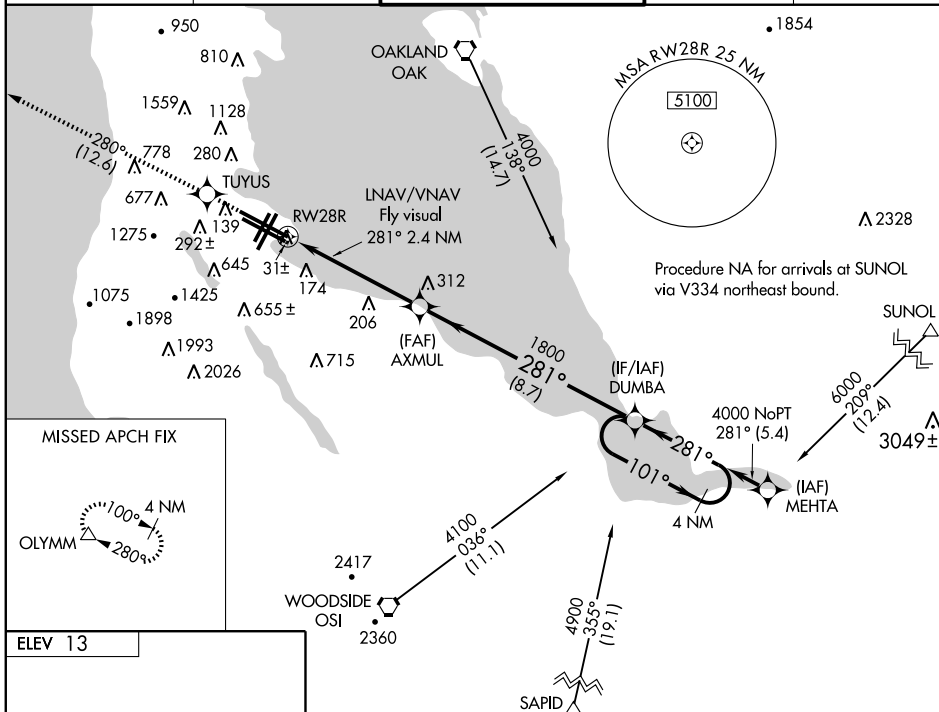
MISSED APPROACH: Climb to 3000 direct TUYUS and via 280° track to OLYMM and hold.

ATIS
113.7 115.8
118.85 135.45

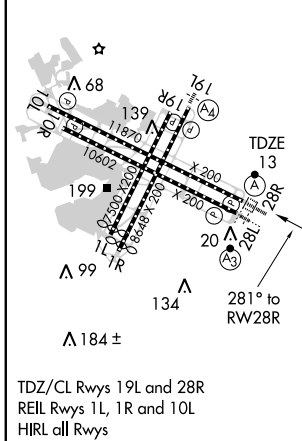
NORCAL APP CON
134.5 338.2

SAN FRANCISCO TOWER
120.5 269.1

GND CON
121 8

CLNC DEL
118.2

ELEV 13



TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

3000 ↑	TUYUS ✦	280° trk	OLYMM △	VGSI and RNAV glidepath not coincident					
Diagram details: The diagram shows a top-down view of the approach. At the top, a 3000 MSL obstacle is indicated by an upward arrow. To its right is the TOWER (TUYUS) symbol. Further right is the track direction 280° and the runway symbol (OLYMM). The main approach path starts from the right, where a 4 NM Holding Pattern is established at 4000 MSL. The path turns 101° to a heading of 281°. At this point, LNAV/VNAV Fly visual is indicated at 2.4 NM. The path continues to 1800 MSL, where a 2.3 NM segment leads to the runway. The total distance from the holding pattern to the runway is 8.7 NM. A 3.1 NM segment is also marked. The runway is RW28R. A note indicates that the VGSI and RNAV glidepaths are not coincident. The final segment is 8.7 NM. The glide slope is GS 3.00° and the threshold crossing height is TCH 55'. The diagram is labeled 'DUMBA' and 'AXMUL'.				DUMBA 4 NM Holding Pattern 101° → ← 281° 4000 1800 GS 3.00° TCH 55'					
CATEGORY		A		B		C		D	
LPV DA		263/24 250 (300-½)							
LNAV/VNAV DA		822-2		809 (900-2)		822-2 ¼ 809 (900-2 ¼)		822-2 ½ 809 (900-2 ½)	
LNAV MDA		1040/40 1027 (1100-¾)		1040/50 1027 (1100-1)		1040-2 ½ 1027 (1100-2 ½)			
CIRCLING		1040-1 ¼ 1027 (1100-1 ¼)		1040-1 ½ 1027 (1100-1 ½)		1040-3 1027 (1100-3)		1160-3 1147 (1200-3)	

APP CRS
101°

Rwy Idg	10602
TDZE	9
Apt Elev	13

RNAV (RNP) Y RWY 10R
SAN FRANCISCO INTL (SFO)

T	GPS required.
A NA	For uncompensated Baro-VNAV systems, procedure NA below 2° C (36° F) or above 48° C (120° F).

MISSED APPROACH: Climb to 3600 via 101° track to IGUKE and via 100° track to DUMBA and hold.

ATIS	
113.7	115.8
118.85	135.45

NORCAL APP CON
134.5 338.2

SAN FRANCISCO TOWER
120.5 269.1

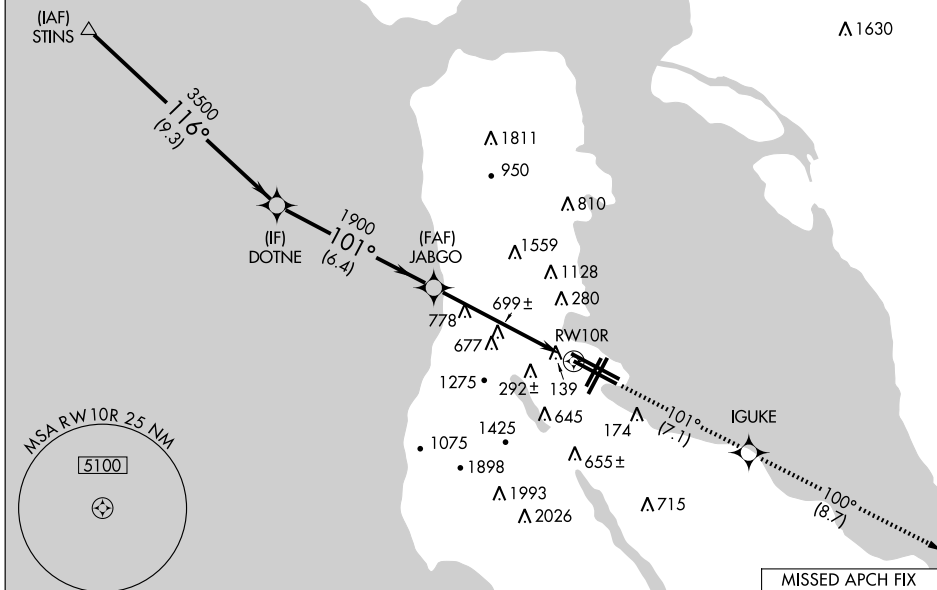
GND CON
121.8

CLNC DEL
118.2

Procedure NA for arrivals at STINS via V27 northbound and via V25-150-199 northwestbound.

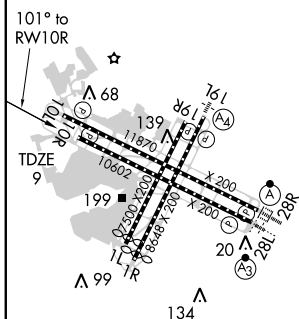
Δ 1974

Δ 1630



SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 13



TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

MISSED APCH FIX

Procedure	VGSI and RNAV glidepath not coincident	3600	IGUKE	100°	DUMBA
-----------	--	------	-------	------	-------

Turn NA		STINS		DOTNE		101° trk			trk	
------------	--	-------	--	-------	--	-------------	--	--	-----	--

[illegible]

	JABGO
--	-------

_____ | 3500 | ~~101°~~ 1700 | RW10R ↗

GP 3.00°
TCH 40

ICH 80		<u>1700</u>		
	0.2 NM	4.4 NM	5.7 NM	

[illegible]

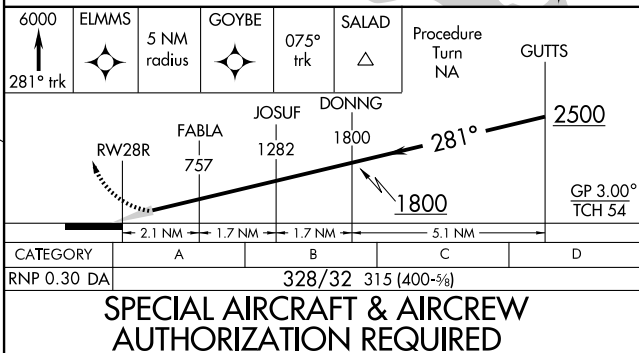
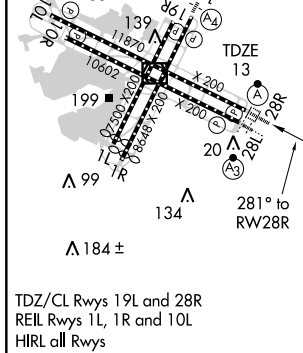
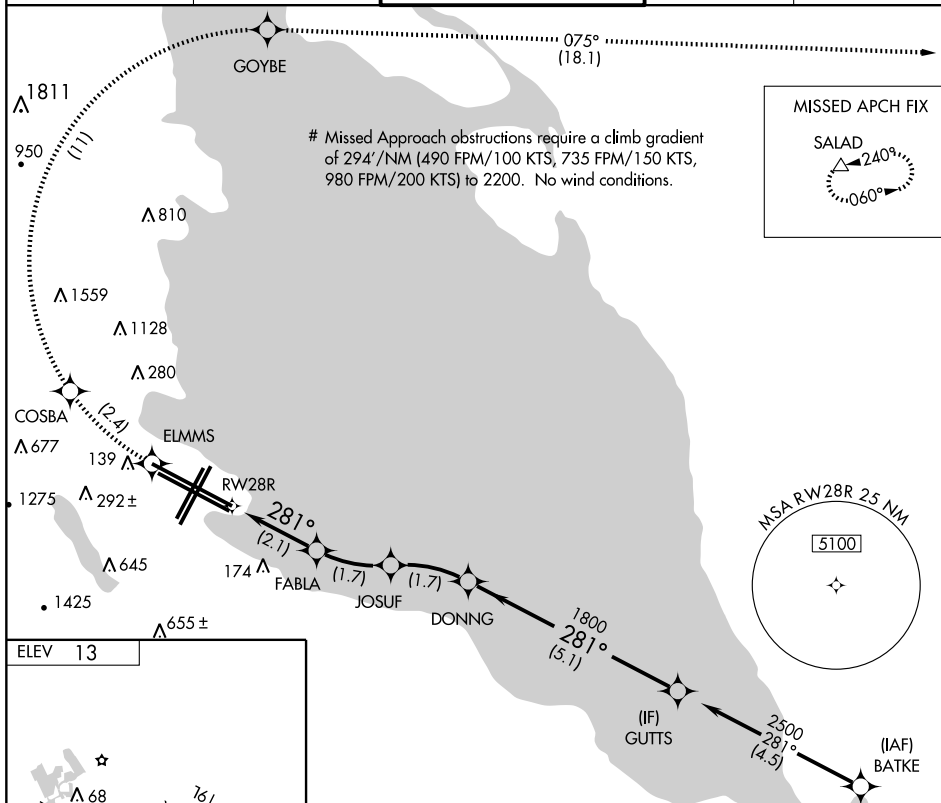
RNP 0.20 DA	368/60	359 (400-1¼)
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RNP 0.30 DA	1040-4 1031(1100-4)
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**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

SAN FRANCISCO INTL (SFO)

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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SAN FRANCISCO EIGHT DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: Rwy 1L/R: DME required; a minimum climb of 500' per NM to 3000' is required.

NOTE: Rwy 28L/R: For obstacle clearance a minimum climb of 300' per NM to 2000' is required.

SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

SAUSALITO
116.2 SAU
Chan 109
N37°51.32'-W122°31.37'
L-2-3, H-3

CONCORD
117.0 CCR
Chan 117
N38°02.70'-W122°02.71'
L-2-3

LINDEN
114.8 LIN
Chan 95
N38°04.47'-W121°00.23'
L-2-3, H-3

NORMM
N37°43.21'
W122°36.79'

OAKLAND
116.8 OAK
Chan 115
N37°43.56'-W122°13.42'
L-2-3, H-3

MANTECA
116.0 ECA
Chan 107
N37°50.02'-W121°10.28'
L-2-3, H-3

SAN FRANCISCO
115.8 SFO
Chan 105

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via heading 030° or as assigned for vector to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Climb via SFO R-281 to NORMMM INT; expect vector to assigned route/fix after NORMMM INT. Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

All runways: If not in contact with departure control after reaching 3000', continue climb to filed altitude and proceed direct to assigned route/fix.

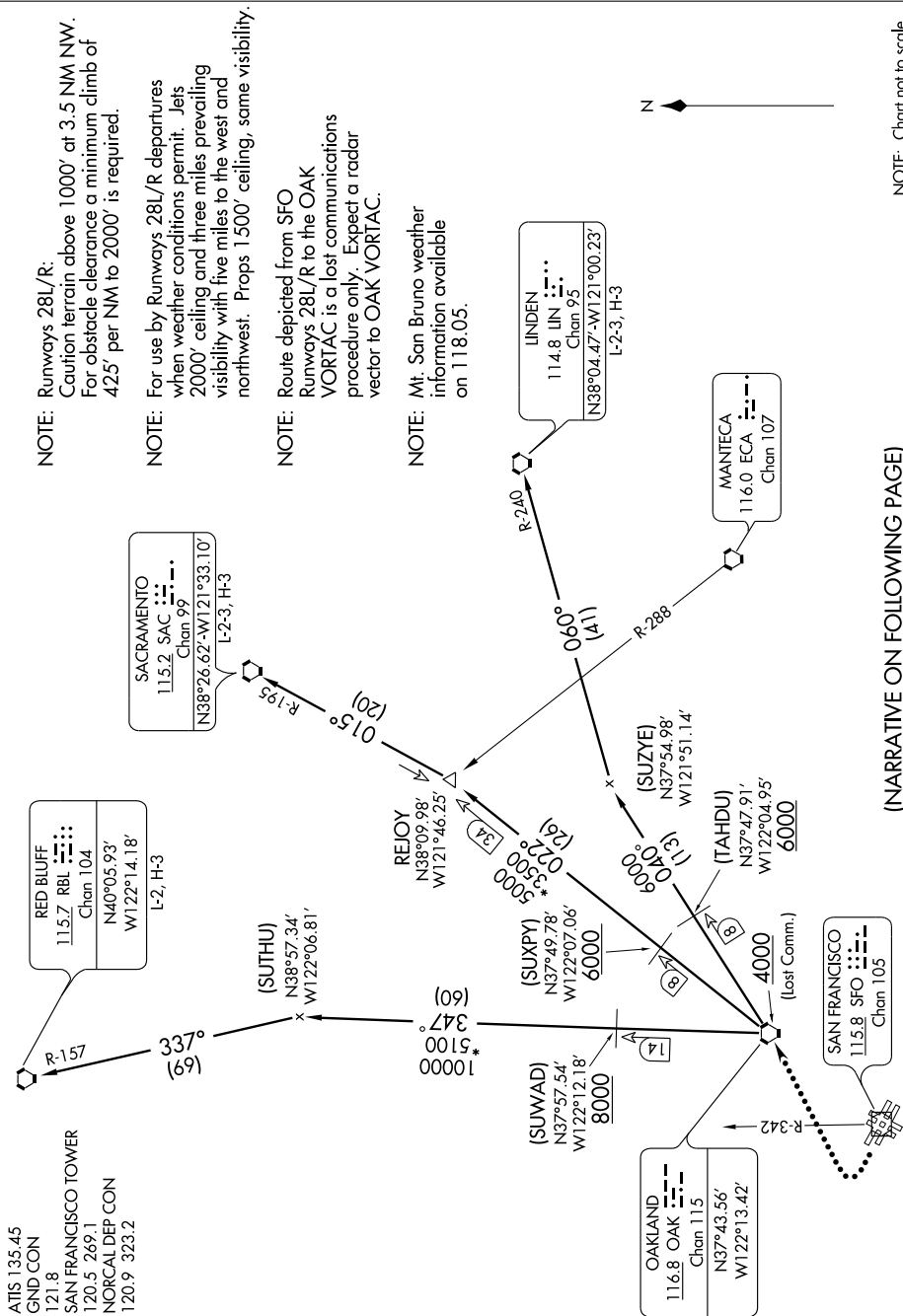
NOTE: Runways 28L/R:
Caution terrain above 1000' at 3.5 NM NW.
For obstacle clearance a minimum climb of
425' per NM to 2000' is required.

NOTE: For use by Runways 28L/R departures when weather conditions permit. Jets 2000' ceiling and three miles prevailing visibility with five miles to the west and northwest. Props 1500' ceiling, same visibility.

NOTE: Route depicted from SFO Runways 28L/R to the OAK VORTAC is a lost communications procedure only. Expect a radar vector to OAK VORTAC.

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: Chart not to scale.



(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 28L/R: Turn right heading 040° or as assigned, for vector to OAK VORTAC. Then via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

Take-off runways 28L/R: If not in contact with departure control one minute after crossing the SFO R-342, proceed direct to OAK VORTAC. Cross OAK VORTAC at or above 4000'.

LINDEN TRANSITION (SHORT.LIN): Climb via OAK R-040 and LIN R-240 to LIN VORTAC. Cross the OAK R-040 8 DME fix at or above 6000'. Thence via (assigned route).

RED BLUFF TRANSITION (SHORT.RBL): Climb via OAK R-347 and RBL R-157 to RBL VORTAC. Cross the OAK R-347 14 DME fix at or above 8000'. Maintain (assigned altitude) or (flight level). Thence via (assigned route).

SACRAMENTO TRANSITION (SHORT.SAC): Climb via OAK R-022 and SAC R-195 to SAC VORTAC. Cross the OAK R-022 8 DME fix at or above 6000'. Maintain (assigned altitude) or (flight level). Thence via (assigned route).

STINS ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO INTL
SAN FRANCISCO, CALIFORNIA

NORCAL APP CON
133.95 317.6
ATIS
113.7 118.85

FORTUNA
114.0 FOT
Chan 87
N40°40.28'-W124°14.07'
L-2, H-3

ROSEBURG
108.2 RBG
Chan 19
N43°10.95'-W123°21.14'
L-1, H-1

MUSTANG
117.9 FMG
Chan 126
N39°31.88'-W119°39.36'
L-9, H-3

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

MENDOCINO
112.3 ENI
Chan 70
N39°03.19'-W123°16.45'

FL 180
251°
(58)

WILLIAMS
114.4 ILA
Chan 91
N39°04.27'-W122°01.63'

POINT REYES
113.7 PYE
Chan 84
N38°04.78'-W122°52.07'

SAUSALITO
116.2 SAU
Chan 109

SAN FRANCISCO
115.8 SFO
Chan 105
N37°37.17'-W122°22.43'

VERTICAL NAVIGATION
PLANNING INFORMATION

Turbojets expect to cross at 9000'.
Turboprop expect to cross at 7000'

NOTE: Chart not to scale.

FORTUNA TRANSITION (FOT.STINS1): From over FOT VORTAC via FOT R-136 and ENI R-320 to ENI VORTAC. Thence....

MUSTANG TRANSITION (FMG.STINS1): From over FMG VORTAC via FMG R-241 and ILA R-057 to ILA VORTAC, then via ILA R-251 and ENI R-073 to ENI VORTAC. Thence....

RED BLUFF TRANSITION (RBL.STINS1): From over RBL VORTAC via RBL R-200 and ENI R-021 to ENI VORTAC. Thence....

ROSEBURG TRANSITION (RBG.STINS1): From over RBG VOR/DME via RBG R-159 and ENI R-343 to ENI VORTAC. Thence....

.... From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC, thence via PYE R-144 to STINS INT, thence via SFO R-287 to SFO VOR/DME. Expect vector to final approach course.

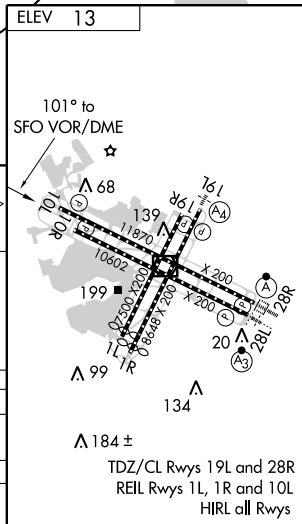
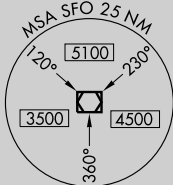
SAN FRANCISCO, CALIFORNIA

MENLO INT
 OAK 16.1
 5000

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
------	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----

NOTE: Closely spaced parallel visual approaches may be in progress to Runway 28R utilizing the SFO R-095. In the event of a go-around on Runway 28L, turn left heading 265°, climb and maintain 3000, or as directed by Air Traffic Control.

MISSED APPROACH: Climb to 2100 via SFO R-101 to BRIJ Int/LOM and hold.

CLNC DEL
118.2

VOR/DME SFO

115.8

Chan 105

APP CRS

191°

Rwy Idg

8648

TDZE

11

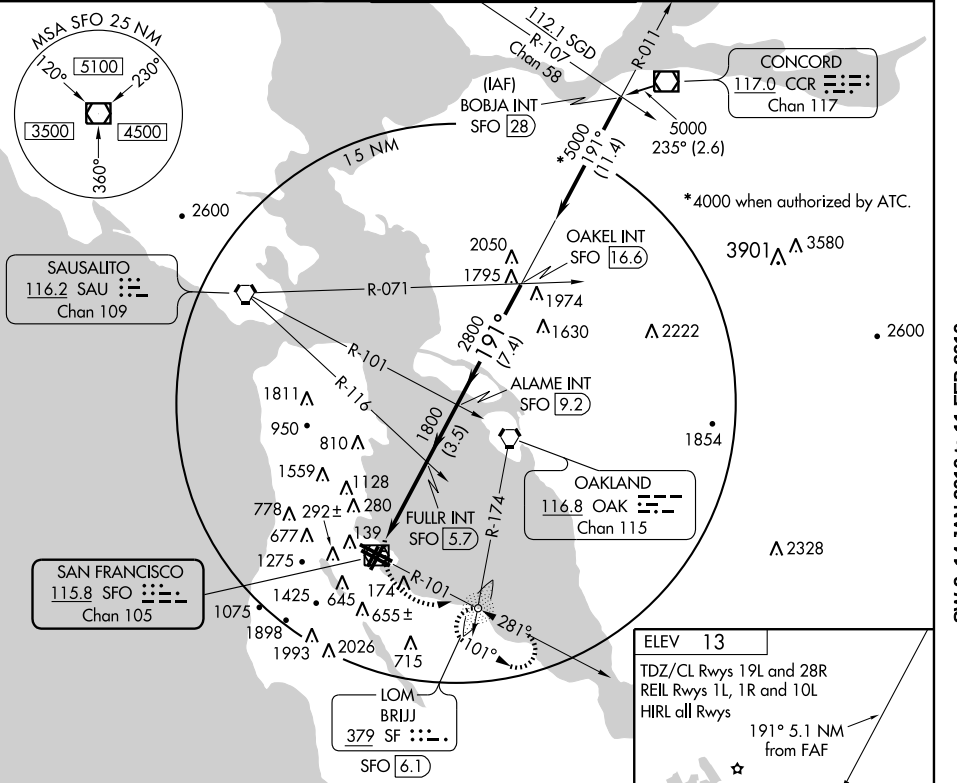
Apt Elev

13

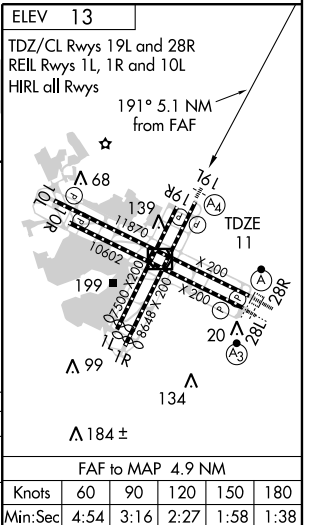
SSALS

MISSED APPROACH: Climbing left turn to 2100 via SFO R-101 to BRIJ INT/LOM and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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2100	SF	SFO R-101	379	ALAME INT SFO 9.2	OAKEL INT SFO 16.6
VOR/DME	SFO 0.8	SFO 1.4	FULLR INT SFO 5.7	5000*	Procedure Turn NA
0.2	0.6	4.3 NM	3.5 NM	7.4 NM	
CATEGORY	A	B	C	D	
S-19L	340/40	329 (400-¾)		340/50	329 (400-1)
CIRCUING	760-1 747 (800-1)	940-1¼ 927 (1000-1¼)	1040-3 1027 (1100-3)	1260-3 1247 (1300-3)	



SW-2, 14 JAN 2010 to 11 FEB 2010

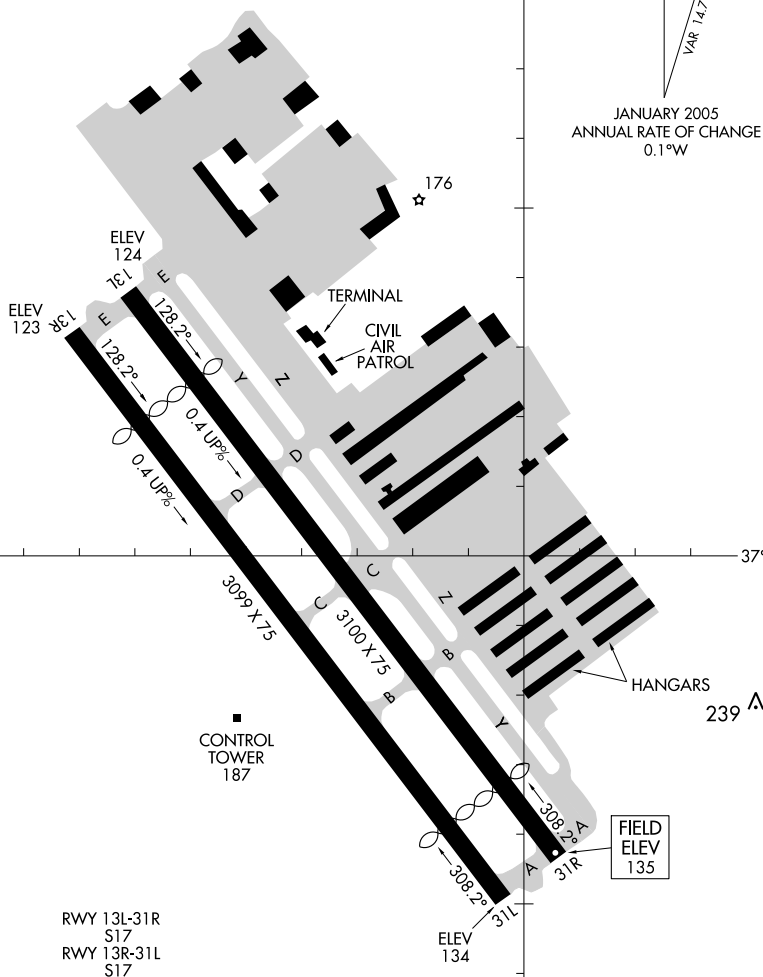
AIRPORT DIAGRAM

SAN JOSE/REID-HILLVIEW OF SANTA CLARA COUNTY (RHY)
AL-5591 (FAA) SAN JOSE, CALIFORNIA

ATIS
125.2
REID-HILLVIEW TOWER ★
119.8 (RWY 13L-31R)
126.1 (RWY 13R-31L)
GND CON
121.65

37°20.5'N

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W



37°20'N

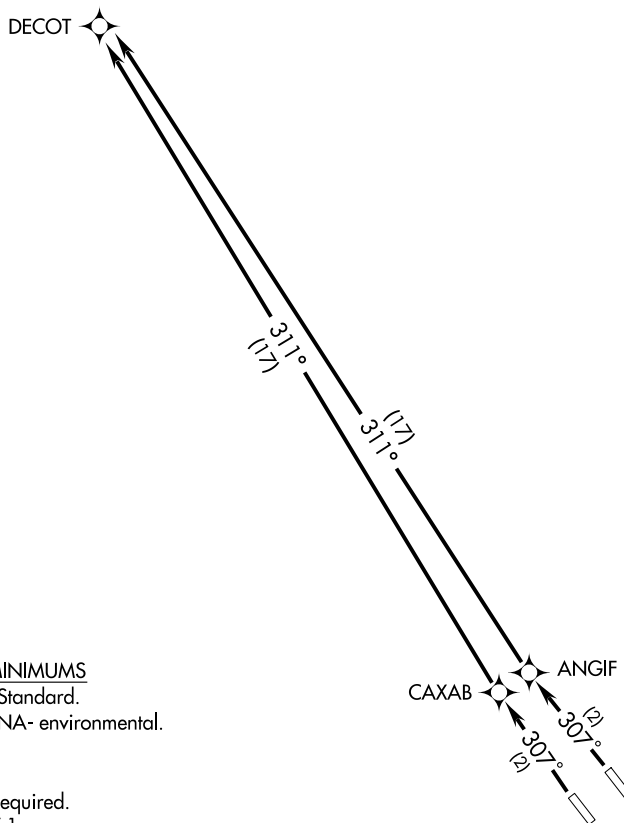
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

121°49.5'W

121°49'W

SW-2 14 JAN 2010 to 11 FEB 2010

NORCAL DEP CON
121.3 270.35



TAKE-OFF MINIMUMS

Rwy 31L/R: Standard.

Rwy 13L/R: NA- environmental.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Rwy 31L/R: Trees 1070 feet from departure end of runway,
500 feet right and left of centerline, 173 and 169 feet MSL.

NOTE: Rwy 31R: Light 125 feet from departure end of runway,
370 feet right of centerline, 159 MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31L: Climb to 4000 via 307° course to CAXAB WP and 311° track to DECOT WP. Then via assigned route.

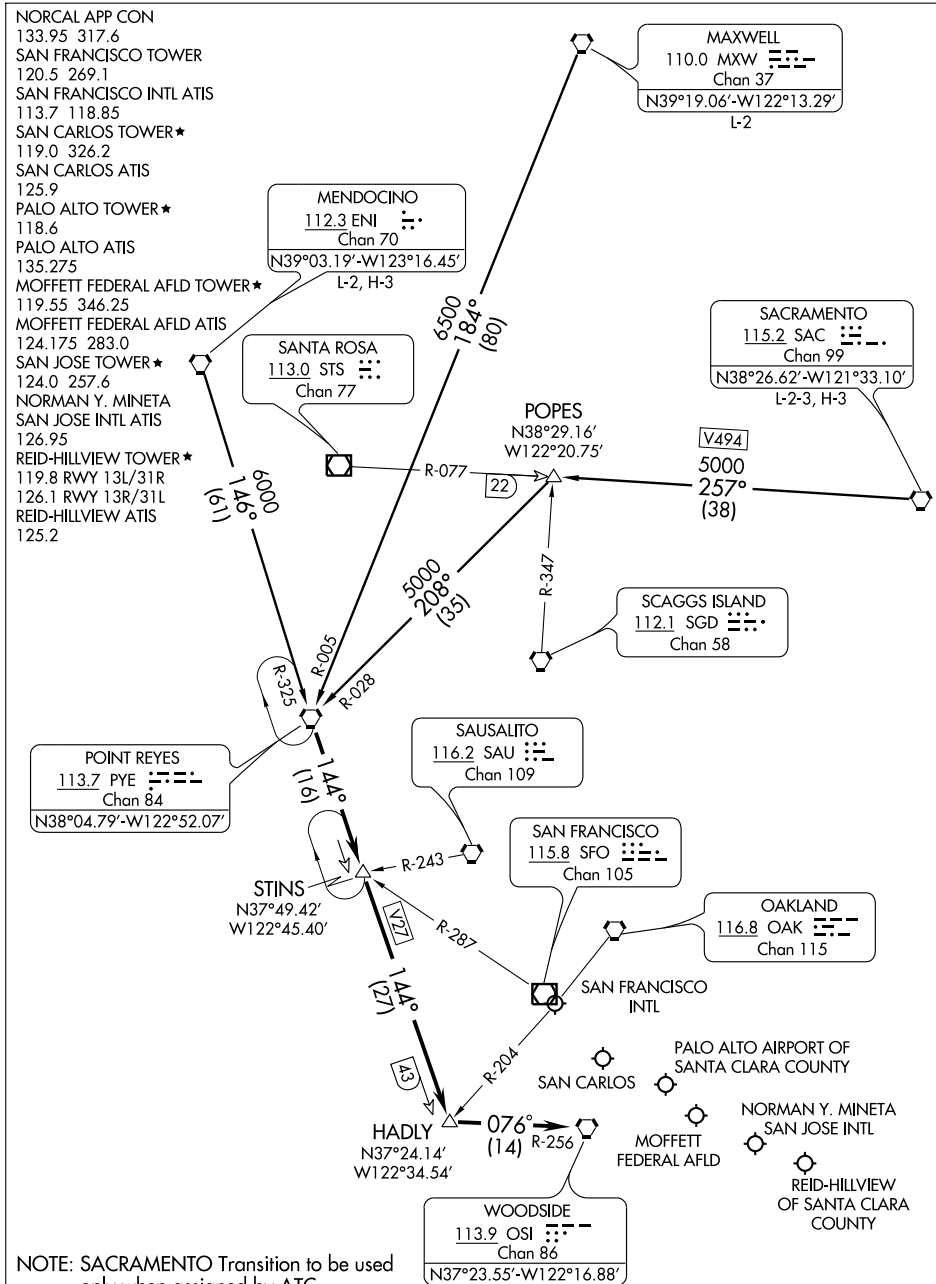
TAKE-OFF RUNWAY 31R: Climb to 4000 via 307° course to ANGIF WP and 311° track to DECOT WP. Then via assigned route.

TAKE-OFF RWY 13L/13R: NA.

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

APP CRS	Rwy Idg	2690
307°	TDZE	131
	Apt Elev	133

RNAV (GPS) RWY 31R

SAN JOSE/REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)

T When control tower closed, use San Jose Intl altimeter setting.
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
 Circling east of Rwy 13L-31R at night not authorized.

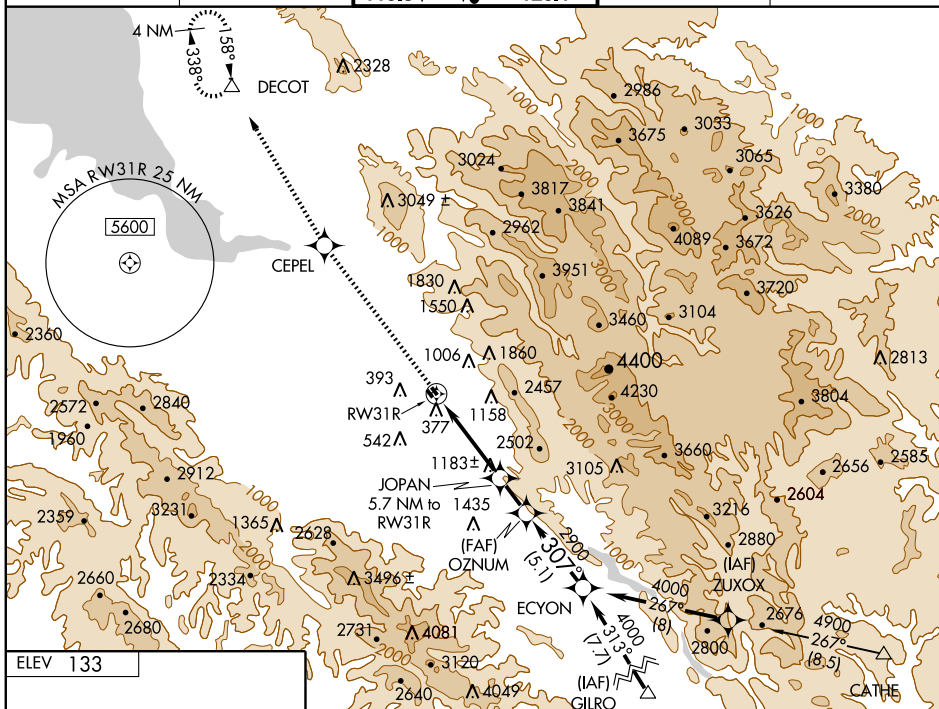
MISSED APPROACH: Climb to 4000 via 307° course to CEPEL WP and 313° course to DECOT WP and hold.

ATIS
125.2

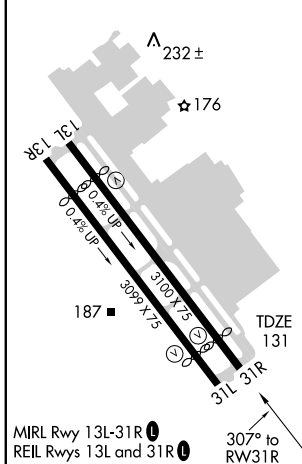
NORCAL APP CON
120.1 290.25

REID-HILLVIEW TOWER★
(Rwy 13L-31R) (Rwy 13R-31L)
119.8 (CTAF) **126.1**

GND CON
121.65

UNICOM
122.95

ELEV	133
------	-----



4000 ↑ 307°	CEPEL ✦	↑ 313°	DECOT △
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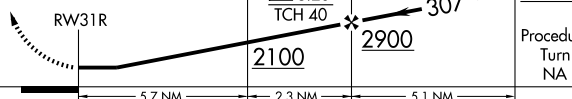
VGSI and descent angles
not coincident.

JOPAN
5.7 NM to

ECYON

4000

Procedure

Turn
NA

CATEGORY	A	B	C	D
LNAV MDA	1440-1¼ 1309 (1400-1¼)	1440-1½ 1309 (1400-1½)	NA	
CIRCLING	1440-1¼ 1307 (1400-1¼)	1440-1½ 1307 (1400-1½)	NA	
SAN JOSE INTL ALTIMETER SETTING MINIMUMS				
LNAV MDA	1460-1¼ 1329 (1400-1¼)	1460-1½ 1329 (1400-1½)	NA	
CIRCLING	1460-1¼ 1327 (1400-1¼)	1460-1½ 1327 (1400-1½)	NA	



ALTAM SEVEN DEPARTURE

SL-693 (FAA)

SAN JOSE, CALIFORNIA

ATIS 126.95

CLNC DEL

118.0

GND CON

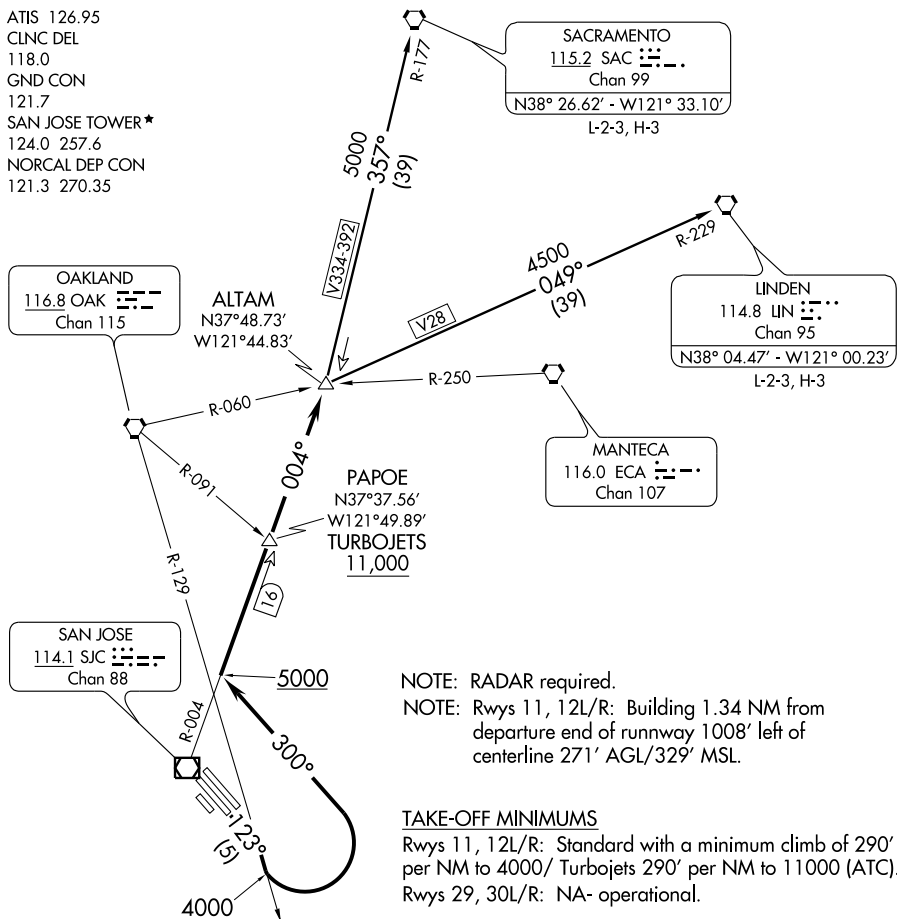
121.7

SAN JOSE TOWER ★

124.0 257.6

NORCAL DEP CON

121.3 270.35



NOTE: RADAR required.

NOTE: Rwy 11, 12L/R: Building 1.34 NM from departure end of runway 1008' left of centerline 271' AGL/329' MSL.

TAKE-OFF MINIMUMS

Rwys 11, 12L/R: Standard with a minimum climb of 290' per NM to 4000/ Turbojets 290' per NM to 11000 (ATC).

Rwys 29, 30L/R: NA- operational.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L/R: Climb via heading 123° to intercept and proceed via OAK R-129 to 4000', then turn left heading 300° to intercept SJC R-004 at or above 5000'. Proceed via SJC R-004 to ALTAM INT. Turbojets cross PAPOE INT/SJC 16 DME at or above 11,000'. Then via (transition) or (assigned route). Aircraft filing FL240 and above expect further clearance to filed altitude 10 minutes after departure.

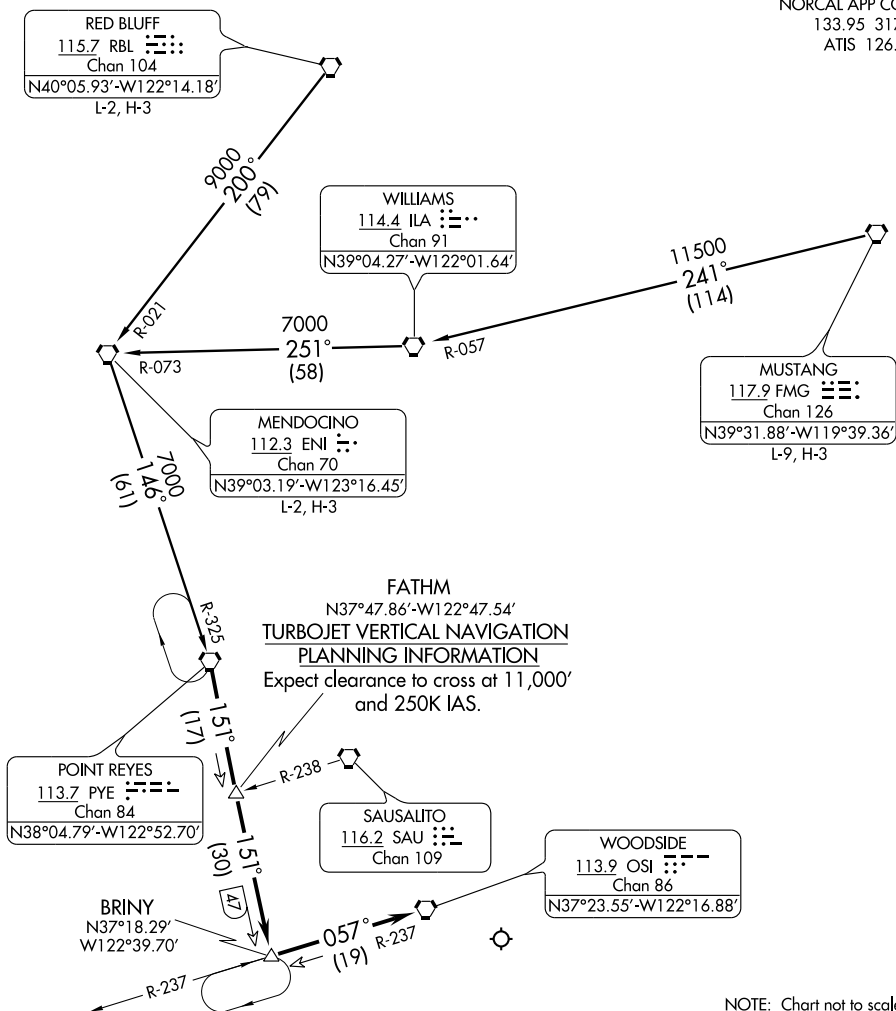
TAKE-OFF RUNWAYS 29, 30L/R: Not Authorized.

LINDEN TRANSITION (ALTAM7.LIN): From over ALTAM INT via LIN R-229 to LIN VORTAC.

SACRAMENTO TRANSITION (ALTAM7.SAC): From over ALTAM INT via SAC R-177 to SAC VORTAC.

BRINY ONE ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIANORCAL APP CON
133.95 317.6
ATIS 126.95

MENDOCINO TRANSITION (ENI.BRINY1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence . . .

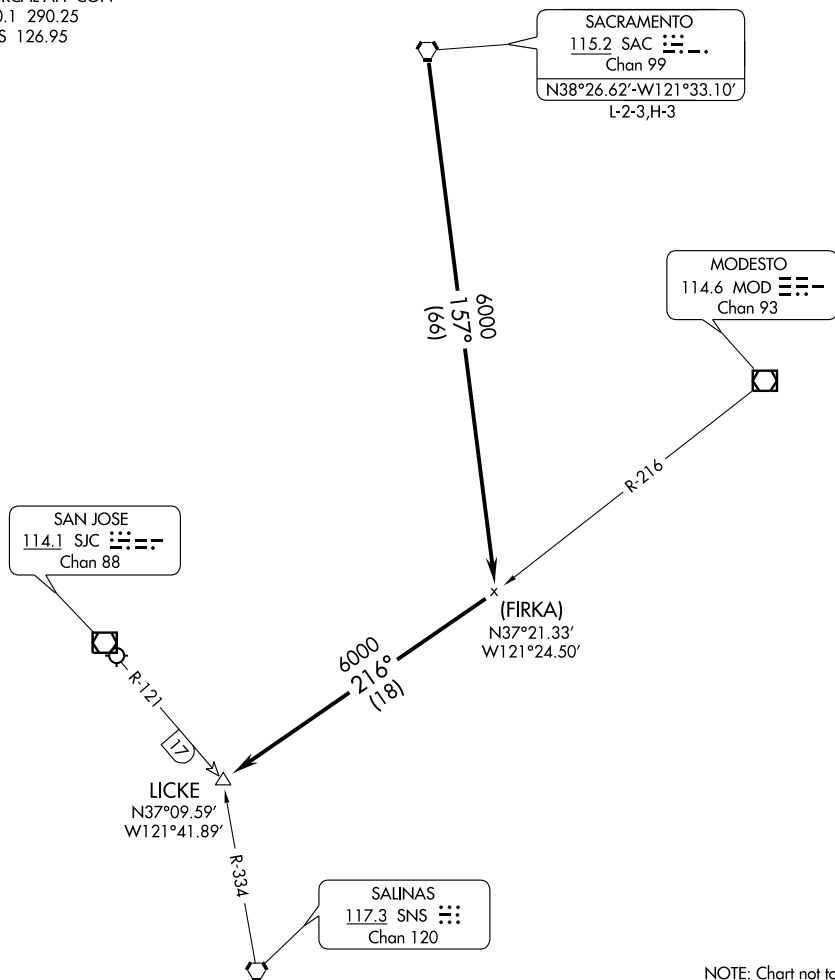
MUSTANG TRANSITION (FMG.BRINY1): From over FMG VORTAC via FMG R-241 to ILA VORTAC then via ILA R-251 to ENI VORTAC, then via ENI R-146 to PYE VORTAC. Thence . . .

RED BLUFF TRANSITION (RBL.BRINY1): From over RBL VORTAC via RBL R-200 and ENI R-146 to PYE VORTAC. Thence . . .

. . . From over PYE VORTAC via PYE R-151 to BRINY INT/DME, then via OSI R-237 to OSI VORTAC. Expect radar vectors to Rwy 12R final approach course.

CAPITOL THREE ARRIVAL

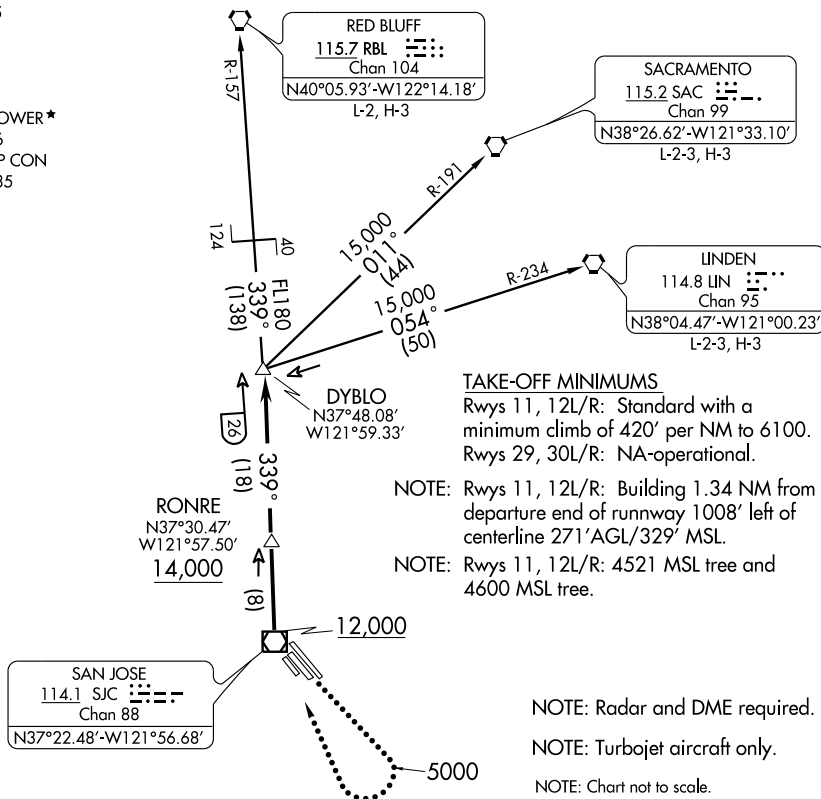
ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIANORCAL APP CON
120.1 290.25
ATIS 126.95

From over SAC VORTAC via SAC R-157 to intercept and proceed via MOD R-216 to LICKE INT. Then via radar vector to San Jose Intl Airport.

DANVILLE TWO DEPARTURE

ATIS 126.95
CLNC DEL
118.0
GND CON
121.7
SAN JOSE TOWER ★
124.0 257.6
NORCAL DEP CON
121.3 270.35



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 29, 30L/R: NA.

TAKE-OFF RUNWAYS 11, 12L/R: Climb via runway heading for vector to SJC VOR/DME, then via SJC R-339 to DYBLO INT, thence via (transition) or (assigned route). Cross SJC VOR/DME at or above 12,000'. Cross RONRE/8 DME at or above 14,000', maintain assigned altitude. Aircraft filing FL240 and above expect further clearance to filed altitude after passing SJC VOR/DME.

LOST COMMUNICATIONS:

Runways 11, 12L/R: If not in contact with departure control after reaching 5000', turn right direct SJC VOR/DME thence via SJC VOR/DME R-339 to DYBLO INT, thence via (transition) or (assigned route). Cross SJC VOR/DME at or above 12,000', cross RONRE/8 DME at or above 14,000', then climb to filed altitude.

LINDEN TRANSITION (DANV2.LIN): From over DYBLO INT via LIN R-234 to LIN VORTAC.

RED BLUFF TRANSITION (DANV2.RBL): From over DYBLO INT via SJC R-339 and RBL R-157 to RBL VORTAC.

SACRAMENTO TRANSITION (DANV2.SAC): From over DYBLO INT via SAC R-191 to SAC VORTAC.

EL NIDO FIVE ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIA

NORCAL APP CON

126.475 317.775

ATIS 126.95

COALDALE TRANSITION (OAL:HYP5): From over OAL VORTAC via OAL R-216 and HYP R-067 to HYP VOR/DME. Thence

MUSTANG TRANSITION (FMG:HYP5): From over FMG VORTAC via FMG R-167 and CZQ R-348 to ELCAP INT, then via HYP R-032 to HYP VOR/DME. Thence

. From over HYP VOR/DME via HYP R-240 to PAPEE DME fix, then via HYP R-240 to TORCH DME fix, thence via SJC R-121 to GILRO INT. Expect the ILS Rwy 30L Approach.

For Rwy 12 Operations: Expect radar vectors to final approach course.

TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect clearance to cross PAPEE
at or below 12000', and to cross 25 NM
southeast of SJC VOR/DME at 8000'.

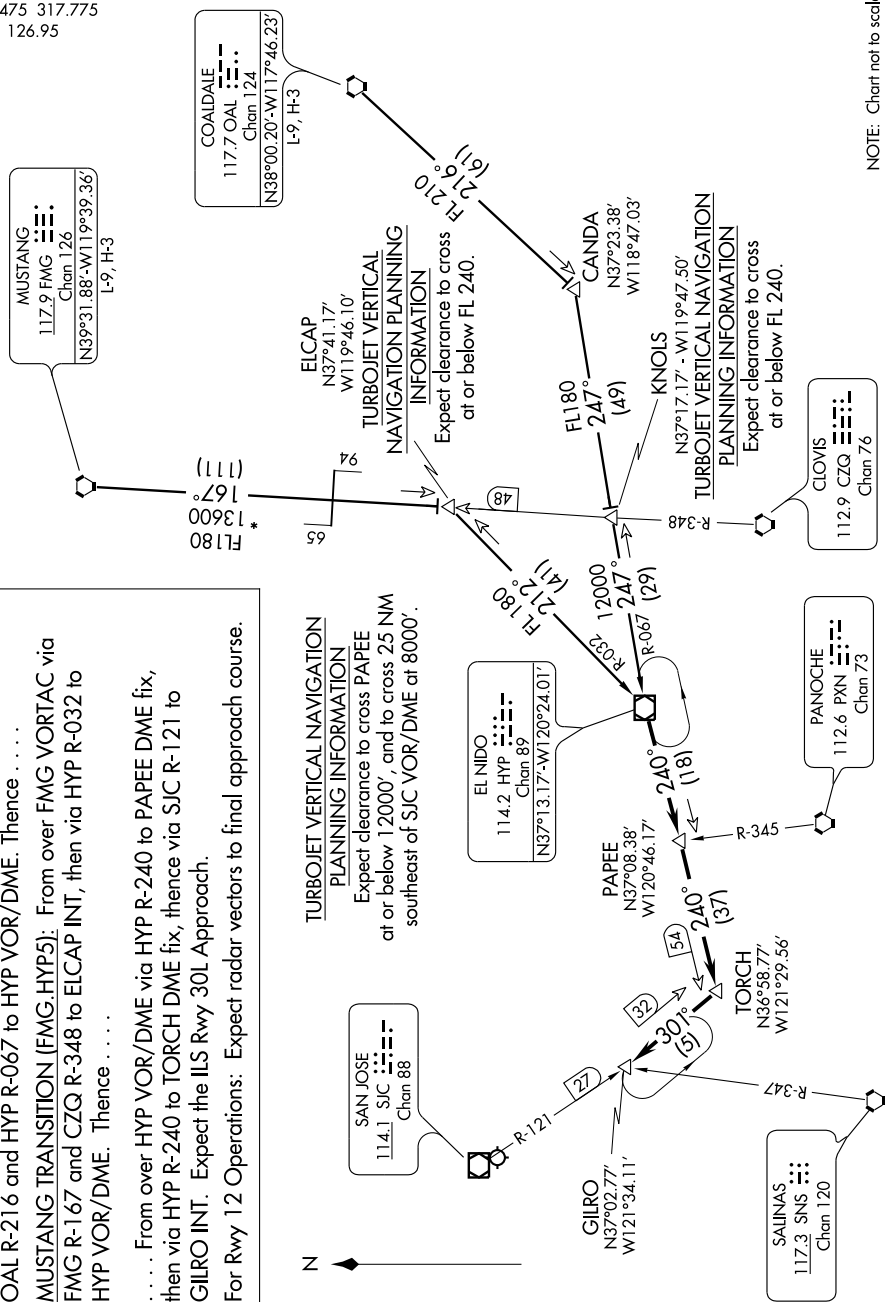
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect clearance to cross
at or below FL 240.

TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect clearance to cross
at or below FL 240.

NOTE: Chart not to scale.

SW-2, 14 JAN 2010 to 11 FEB 2010

N



SAN JOSE, CALIFORNIA

SAN JOSE, CALIFORNIA

ATIS 126.95
 NORCAL APP CON
 120.1 290.25
 SAN JOSE TOWER ★
 124.0 (CTAF) 257.6
 GND CON
 121.7
 CLNC DEL
 118.0

Vertical Guidance Navaid
and Angle:
LOC I-SJC GS (3.00°)

MOFFETT
FEDERAL AIRFIELD

SAN JOSE
114.1 SJC 
Chan 88

LOCALIZER 110.9
I-SJC ::--

REID-HILLVIEW
OF
SANTA CLARA
COUNTY

SANTA CLARA
COUNTY FAIRGROUNDS
SJC 6.6
2000

IBM
PLANT

NOTE: SJC VOR/DME REQUIRED.

RADAR REQUIRED

Weather Minimums: 2500 foot ceiling and 5 miles visibility.

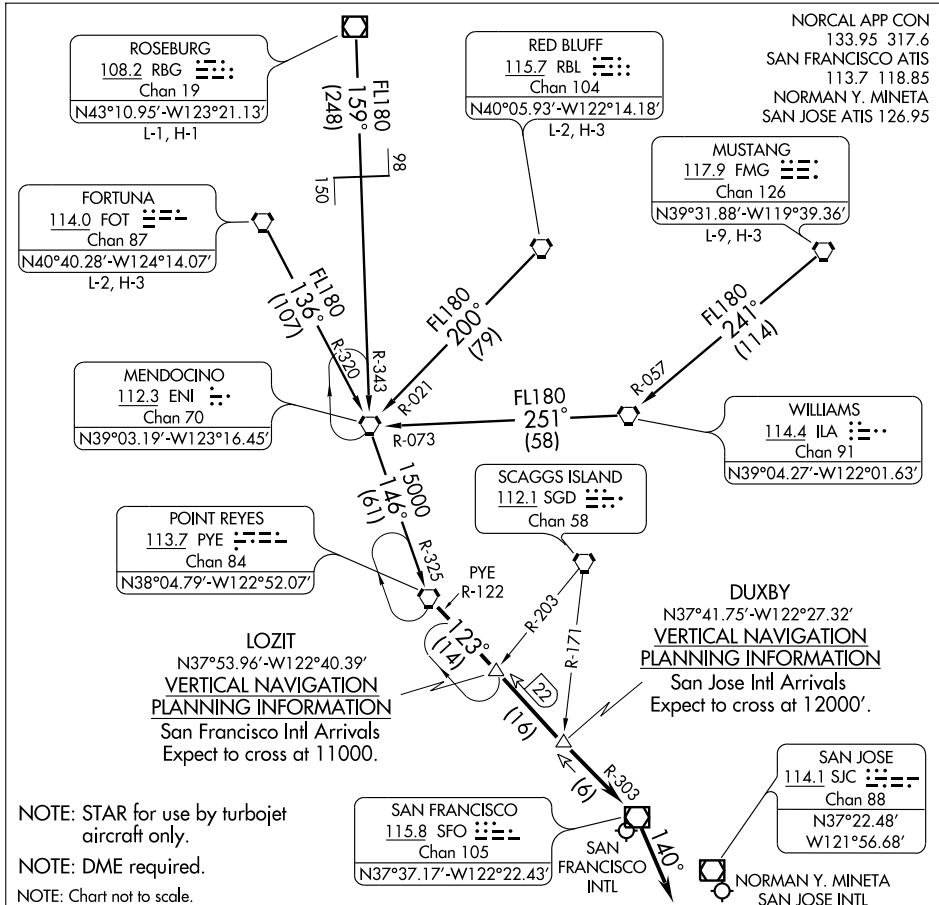
1	NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	----	---	---	---	---	---	---	---	---	----	----	----	----	----	----

FAIRGROUNDS VISUAL APPROACH RUNWAYS 30L/R

Turbo-jet aircraft from the west-northwest may be vectored in the vicinity of the Cement Plant for a Fairgrounds Visual Approach.

Aircraft should turn base no closer than SJC R-170. Aircraft should turn final no closer than 6.6 DME at or above 2,000' for noise abatement.

NOTE: Closely spaced parallel visual approaches may be in progress to Runways 30L/R. In the event of a go-around on Runway 30L, proceed straight-ahead heading 300°, or on Runway 30R, turn right heading 120°, climb and maintain 4,000, or as directed by ATC.



FORTUNA TRANSITION (FOT.GOLDN5): From over FOT VORTAC via FOT R-136 and ENI R-320 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

MUSTANG TRANSITION (FMG.GOLDN5): From over FMG VORTAC via FMG R-241 and ILA R-057 to ILA VORTAC, then via ILA R-251 and ENI R-073 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

RED BLUFF TRANSITION (RBL.GOLDN5): From over RBL VORTAC via RBL R-200 and ENI R-021 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

ROSEBURG TRANSITION (RBG.GOLDN5): From over RBG VOR/DME via RBG R-159 and ENI R-343 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

....From over PYE VORTAC via SFO R-303 to SFO VOR/DME, then via heading 140° (MEA 6000). Expect vectors to final approach course.

LOST COMMUNICATIONS: San Jose Intl: After SFO VOR/DME proceed direct SJC VOR/DME. (MEA 6000).

CATEGORY	A	B	C	D
S-ILS 30L	*257/24 200 (200-½)			
S-LOC 30L	640/24	583 (600-½)	640/50 583 (600-1)	640/60 583 (600-1¼)
SIDESTEP RWY 29	640-1	588 (600-1)	640-1½ 588 (600-1½)	640-2 588 (600-2)
SIDESTEP RWY 30R	640-1	585 (600-1)	640-1½ 585 (600-1½)	640-2 585 (600-2)
CIRCLING	NA			

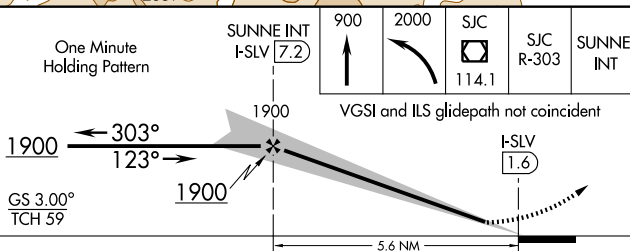
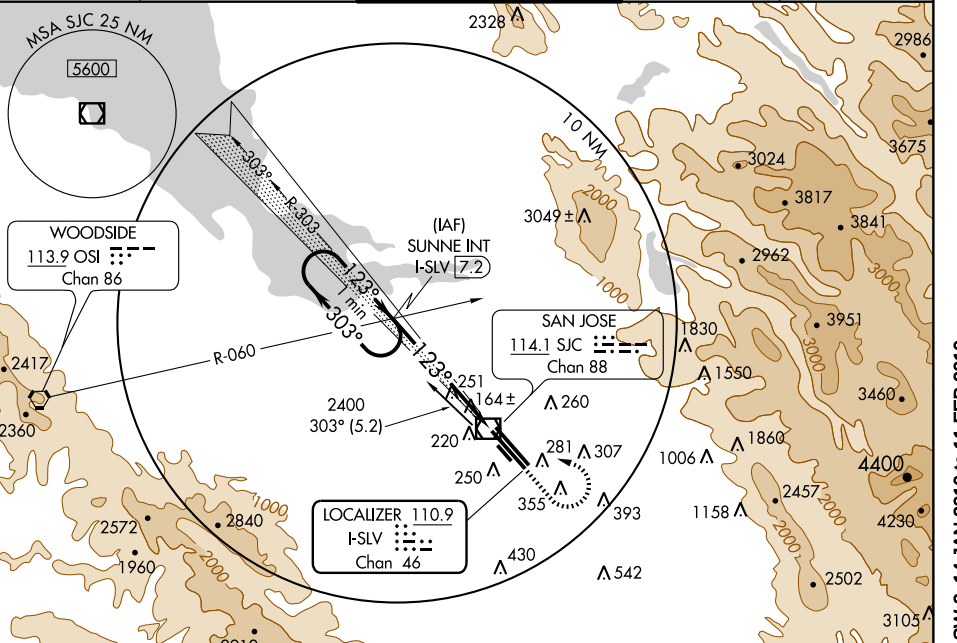
▼

▲

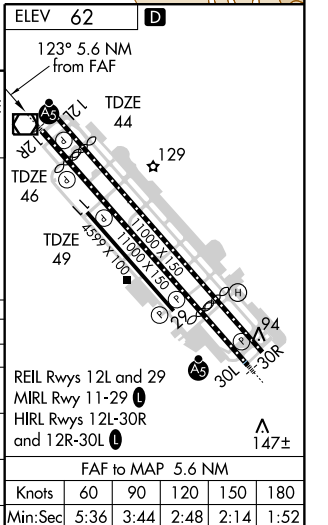
MALSR
Rwy 12R

MISSED APPROACH: Climb to 900 then climbing left turn to 2000 direct SJC VOR/DME and R-303 to SUNNE Int and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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CATEGORY	A	B	C	D
S-ILS 12R	258-½ 212 (200-½)			
S-LOC 12R	420-½ 374 (400-½)			
SIDESTEP RWY 12L	420-1 376 (400-1)	420-1½ 376 (400-1½)	420-2 376 (400-2)	
SIDESTEP RWY 11	480-1 431 (500-1)	480-1½ 431 (500-1½)	480-2 431 (500-2)	
CIRCLING	NA			



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.JAWWS2): From over AVE VORTAC via AVE R-276 to ROBIE INT, then via SNS R-128 to SNS VORTAC, then via SNS R-318 to JAWWS INT. Thence

COALDALE TRANSITION (OAL.JAWWS2): From over OAL VORTAC via OAL R-216 and HYP R-067 to HYP VOR/DME, then via HYP R-240 to JAWWS INT. Thence

EL NIDO TRANSITION (HYP.JAWWS2): From over HYP VOR/DME via HYP R-240 to PAPEE INT then via HYP R-240 to JAWWS INT.

Thence

MUSTANG TRANSITION (FMG.JAWWS2): From over FMG VORTAC via FMG R-167 to ELCAP INT, then via HYP R-032 to HYP VOR/DME, then via HYP R-240 to JAWWS INT. Thence

SAN MARCUS TRANSITION (RZS.JAWWS2): From over RZS VORTAC via RZS R-312 and SNS R-128 to SNS VORTAC, then via SNS R-318 to JAWWS INT. Thence

. . . . From over JAWWS INT via OAK R-138 to PUCKK INT, thence via heading 300°, expect radar vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communications proceed direct to SJC VOR/DME and execute runway 12R ILS approach.

LOUPE ONE DEPARTURE

ATIS 126.95

CLNC DEL

118.0

GND CON

121.7

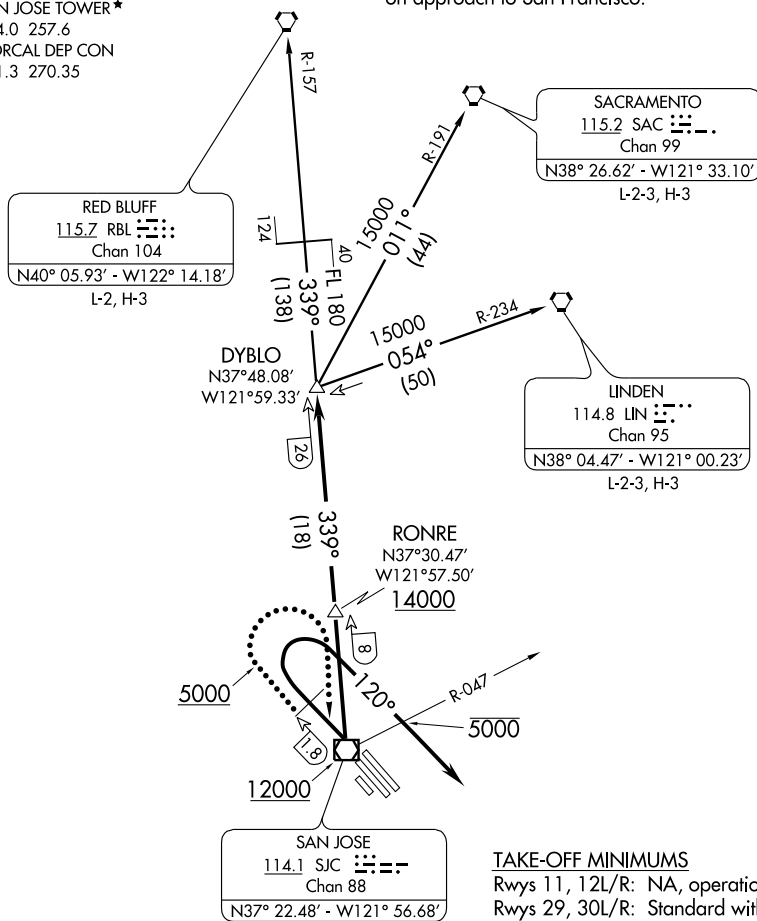
SAN JOSE TOWER ★

124.0 257.6

NORCAL DEP CON

121.3 270.35

ALERT: SJC R-047 5000' crossing
restriction protects aircraft descending
on approach to San Francisco.



NOTE: Rwy 29, tree 2254' from departure end of runway 113' left of centerline 63' AGL 102' MSL.
NOTE: Rwy 30L, pole 1739' from departure end of runway 743' left of centerline 55' AGL/91' MSL.
NOTE: Rwy 30R, pole 963' from departure end of runway 133' right of centerline 49' AGL/85' MSL.
NOTE: Rwys 29, 30L/R, 3043 MSL tower.

NOTE: Radar and DME Required.

NOTE: Turbojet aircraft only.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

LOUPE ONE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L: NA.

TAKE-OFF RUNWAYS 29, 30L/R: Climb runway heading at SJC 1.8 DME northwest of SJC VOR/DME turn right heading 120°, maintain 5000, for radar vectors to SJC VOR/DME, then via SJC R-339 to DYBLO INT, Thence....

....via (transition) or (assigned route). Cross SJC R-047 at or below 5000, cross SJC VOR/DME at or above 12000, cross RONRE/8 DME at or above 14000, maintain assigned altitude. Aircraft filing FL240 and above expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

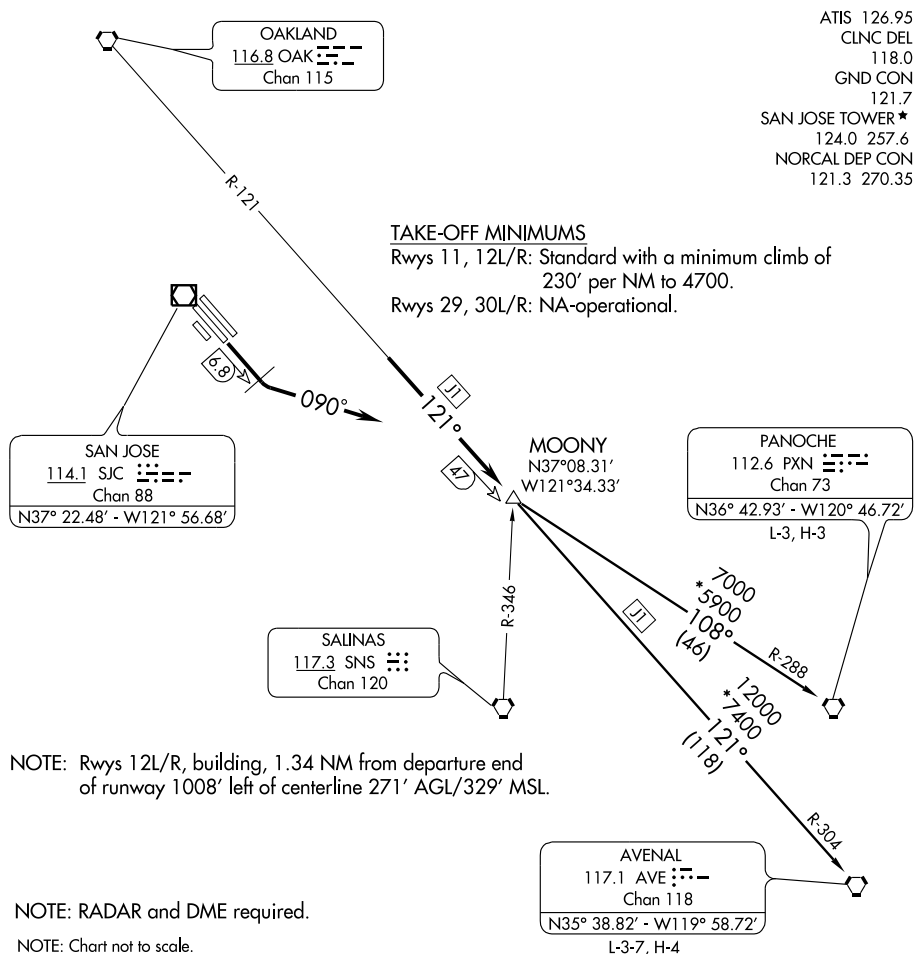
Runways 29, 30L/R: If not in contact with departure control after reaching 5000' turn right direct SJC VOR/DME thence via SJC VOR/DME R-339 to DYBLO INT, thence via (transition) or (assigned route). Cross SJC VOR/DME at or above 12000, cross RONRE/8 DME at or above 14000, then climb to filed altitude.

LINDEN TRANSITION (LOUPE1.LIN): From over DYBLO INT via LIN R-234 to LIN VORTAC.

RED BLUFF TRANSITION (LOUPE1.RBL): From over DYBLO INT via SJC R-339 and RBL R-157 to RBL VORTAC.

SACRAMENTO TRANSITION (LOUPE1.SAC): From over DYBLO INT via SAC R-191 to SAC VORTAC.

MOONY TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 29, 30L/R: NA.

TAKE-OFF RUNWAYS 11, 12L/R: Climb runway heading upon leaving 3000 and not prior to SJC 6.8 DME southeast of SJC VOR/DME, turn left heading 090° to intercept and proceed via OAK R-121 to MOONY INT/OAK 47 DME. Thence....

....via (transition) or (assigned route). Aircraft filing FL240 or above expect further clearance to filed altitude ten minutes after departure.

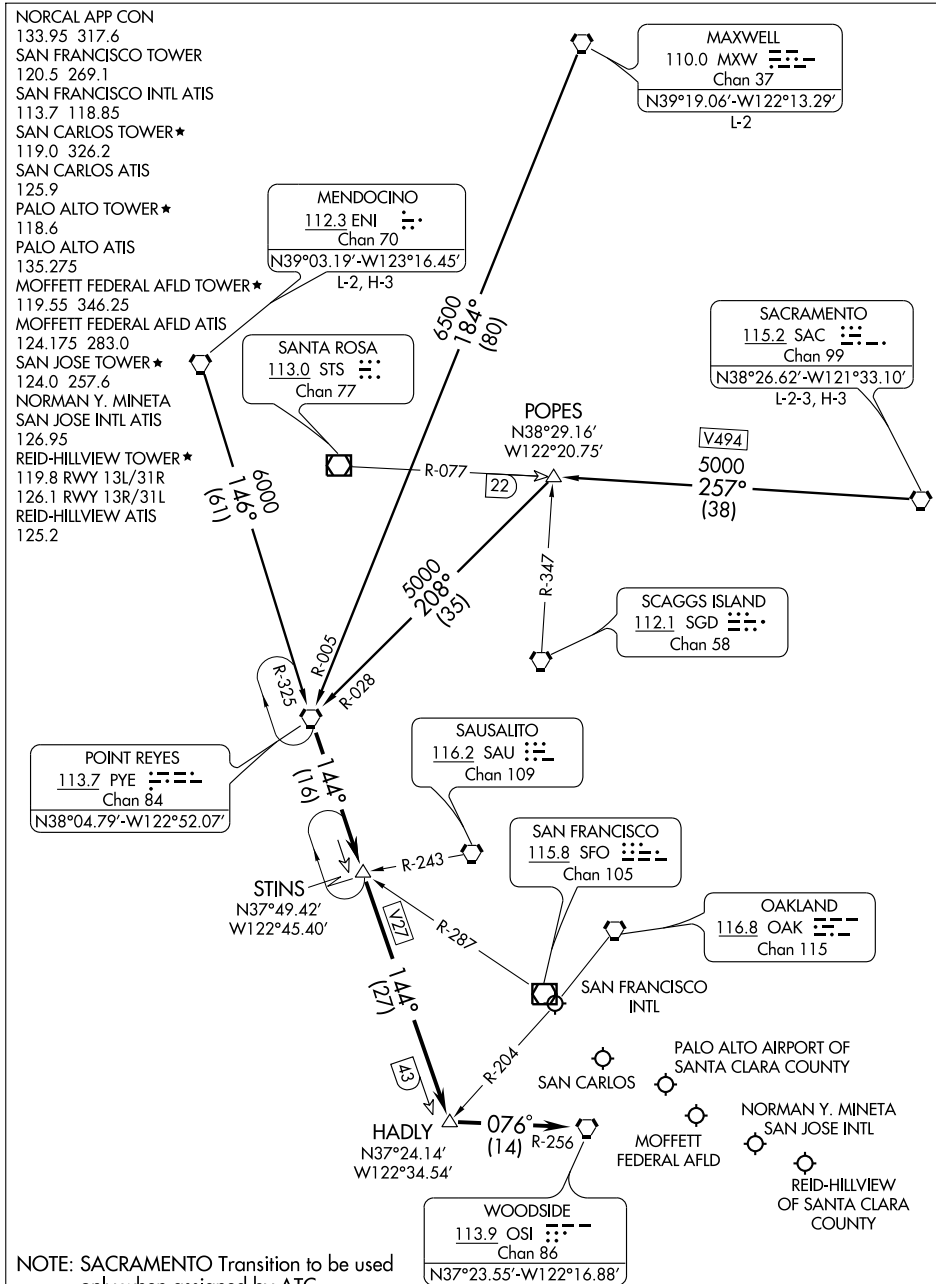
AVENAL TRANSITION (MOONY2.AVE): From over MOONY INT via OAK R-121 and AVE R-304 to AVE VORTAC.

PANOCHE TRANSITION (MOONY2.PXN): From over MOONY INT via PXN R-288 to PXN VORTAC.

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



SW-2. 14 JAN 2010 to 11 FEB 2010

NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

DME/DME RNP- 0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).

MISSED APPROACH: Climb to 4000 direct FOBIG WP and left turn via 121° track to GILRO WP and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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ELEV 62

D

123° to RW11

TDZE 49

4599 x 100'

1200 x 100'

1100 x 100'

30L 30R

129

147±

REIL Rwy 12L and 29
MIRL Rwy 11-29
HIRL Rwy 12L-30R and 12R-30L

VGSI and RNAV glidepath not coincident.				
4 NM Holding Pattern				
3300 ← 303° / 123° → ISENE 1900 5.7 NM 5.6 NM RW11				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	516-1¾ 467 (500-1¾)			
LNAV MDA	520-1	471 (500-1)	520-1¼ 471 (500-1¼)	520-1½ 471 (500-1½)
CIRCLING	640-1 578 (600-1)	680-1 618 (700-1)	720-1¾ 658 (700-1¾)	720-2 658 (700-2)

SW-2 14 JAN 2010 to 11 FEB 2010

WAAS CH 69501 W12B	APP CRS 123°	Rwy Idg 8810 TDZE 44 Apt Elev 62
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RNAV (GPS) RWY 12L

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)



Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -15°C (5°F) or above 49°C (120°F).

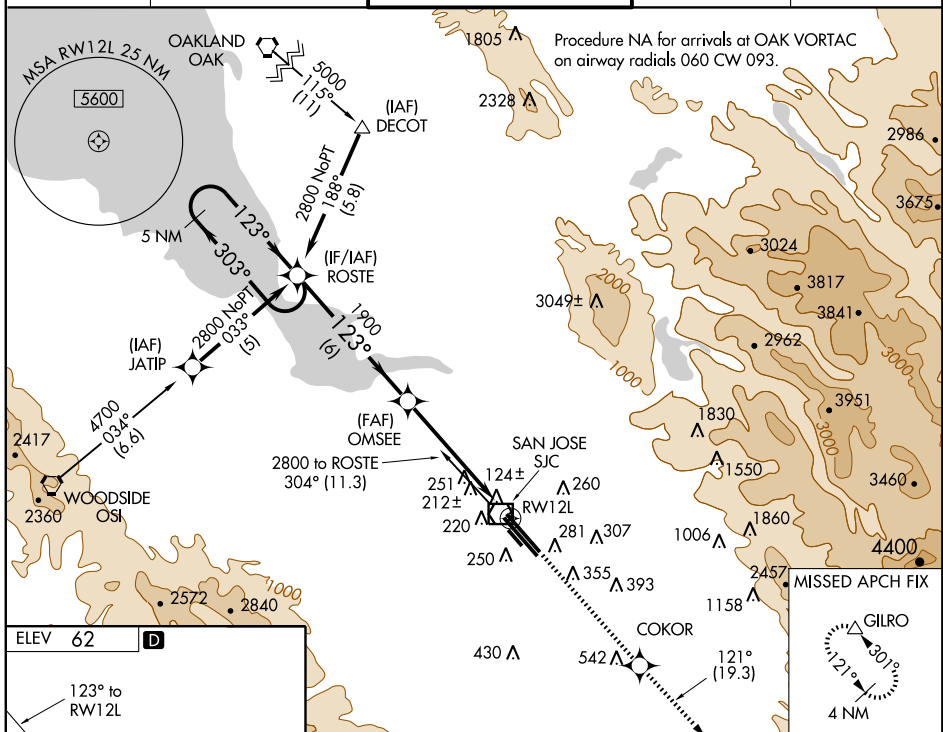
MISSED APPROACH: Climb to 4600 direct COKOR and via 121° track to GILRO and hold.

ATIS
126.95

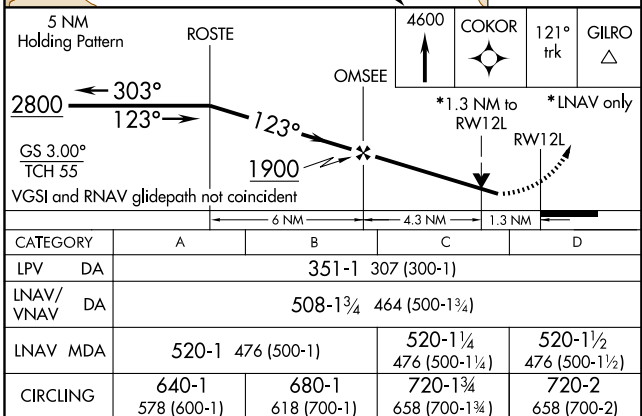
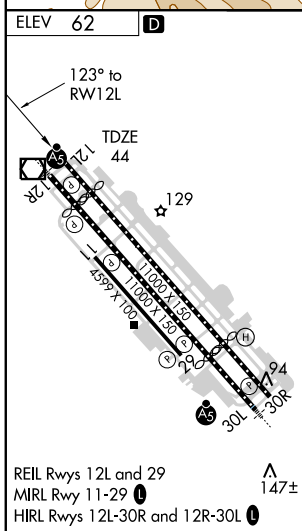
NORCAL APP CON
120.1 290.25

SAN JOSE TOWER ★
124.0 (CTAF) **L** 257.6

GND CON
121.7

CLNC DEL
118.0

SW-2: 14 JAN 2010 to 11 FEB 2010

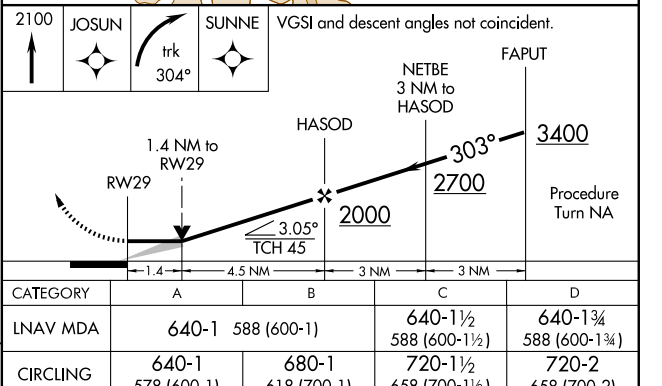
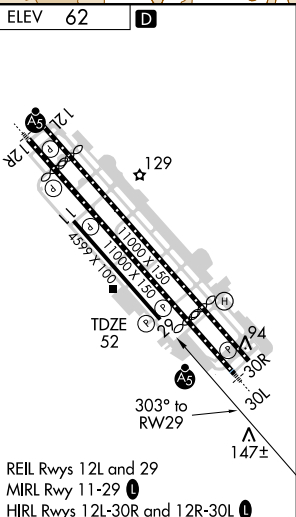
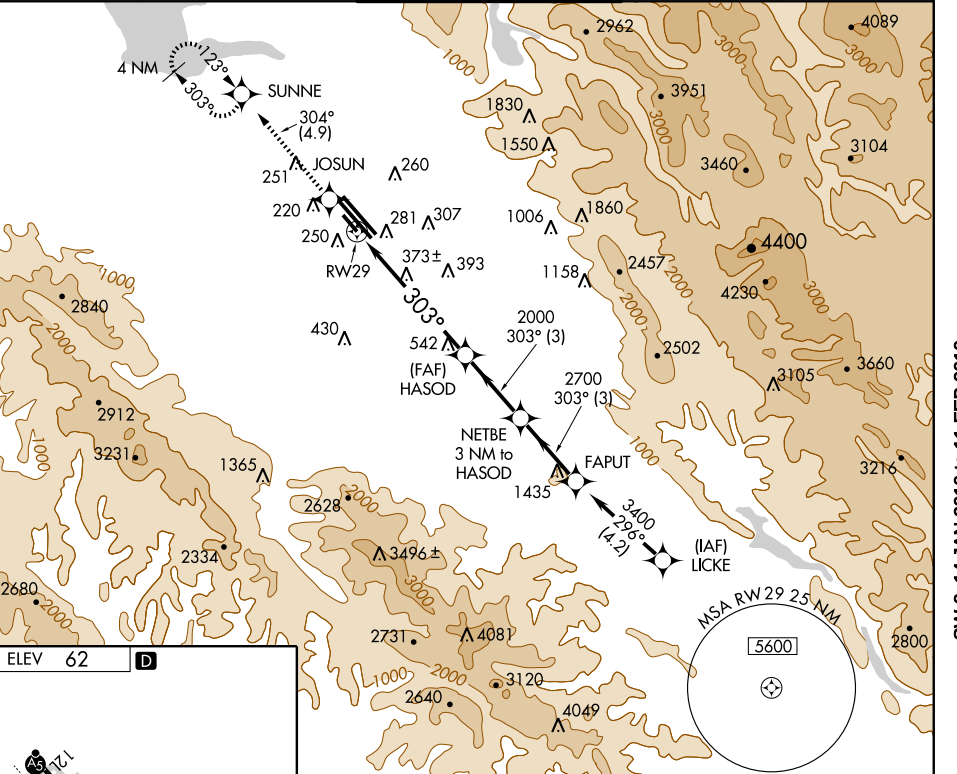


▼

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 2100 direct JOSUN WP and right turn via 304° track to SUNNE WP and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 257.6	GND CON 121.7	CLNC DEL 118.0
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WAAS CH 72901 W30B	APP CRS 303°	Rwy Idg TDZE 7479 Apt Elev 55 62
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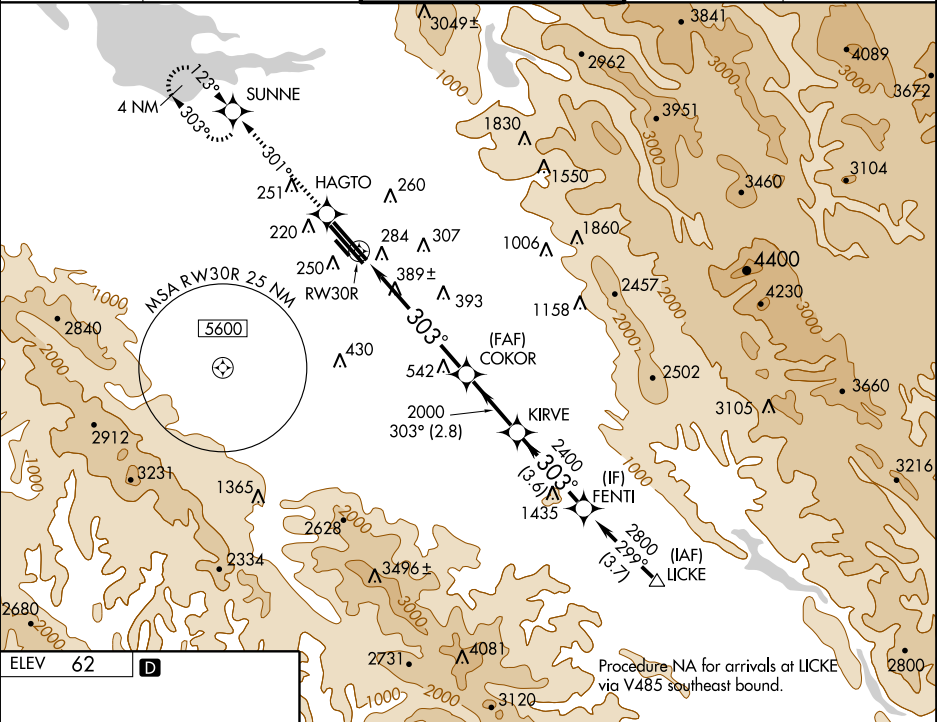
RNAV (GPS) RWY 30R

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)

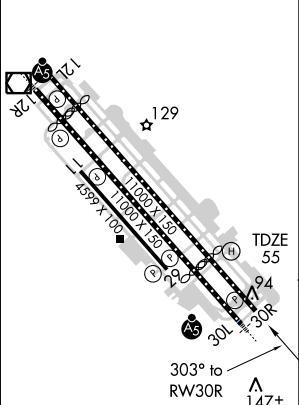
Visibility reduction by helicopters NA. DME/DME RNP -0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -15°C (5°F) or above 49°C (120°F).

MISSED APPROACH: Climb to 2100 direct
HAGTO and via 301° track to SUNNE and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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ELEV 62 **D**

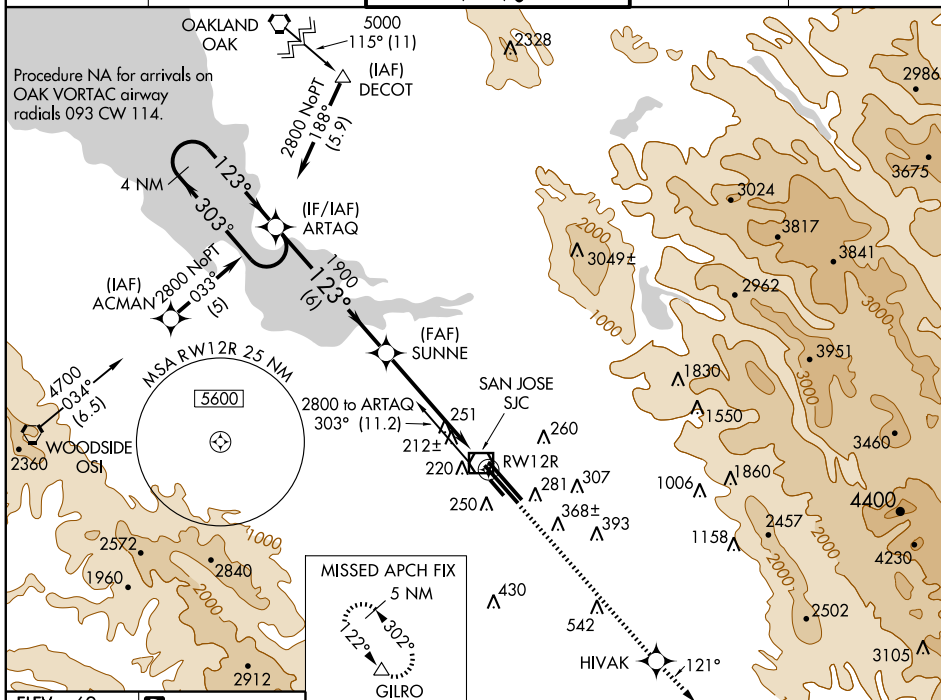


REIL Rwy 12L and 29
MIRL Rwy 11-29 **0**
HIRL Rwy 12L-30R and 12R-30L **0**

2100 ↑ HAGTO 301° trk SUNNE		Procedure Turn NA		FENTI
VGSI and RNAV glidepath not coincident.		COKOR		KIRVE
*LNAV only		RW30R		2800
1.6 NM		4.3 NM		2400
2.8 NM		3.6 NM		2000
CATEGORY		A		D
LPV DA		367-1		312 (400-1)
LNAV/VNAV DA		654-2		599 (600-2)
LNAV MDA		640-1 585 (600-1)		640-1½ 585 (600-1½)
CIRCLING		640-1 578 (600-1)		640-1¾ 585 (600-1¾)
		680-1 618 (700-1)		720-1¾ 720-2
		658 (700-1¾)		658 (700-2)

SAN JOSE / NORMAN Y.
MINETA SAN JOSE INTL (SJC)

MISSED APPROACH: Climb to 4600 direct HIVAK and via track 121° to GILRO and hold.

CLNC DEL
118.0

ELEV 62

123° to RW12R

TDZE 44

TDZE 46

TDZE 49

11000 X 120

1000 X 120

4599 X 100

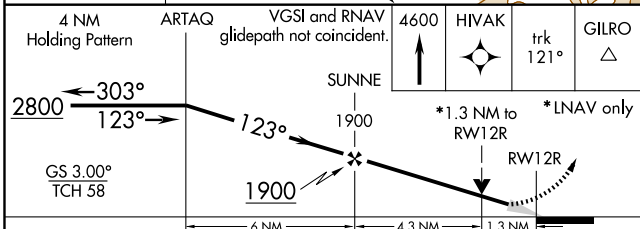
30L 30R

AS

129

74

147



CATEGORY	A		B		C		D	
LPV DA	298-½ 252 (300-½)							
LNAV/ VNAV DA	482-1 436 (500-1)							
LNAV MDA	520-½	474 (500-½)	520-¾ 474 (500-¾)			520-1 474 (500-1)		
SIDESTEP 12L	520-1	476 (500-1)	520-1½ 476 (500-1½)			520-2 476 (500-2)		
SIDESTEP 11	520-1	471 (500-1)	520-1½ 471 (500-1½)			520-2 471 (500-2)		
CIRCLING	NA							

SW-2 14 JAN 2010 to 11 FEB 2010

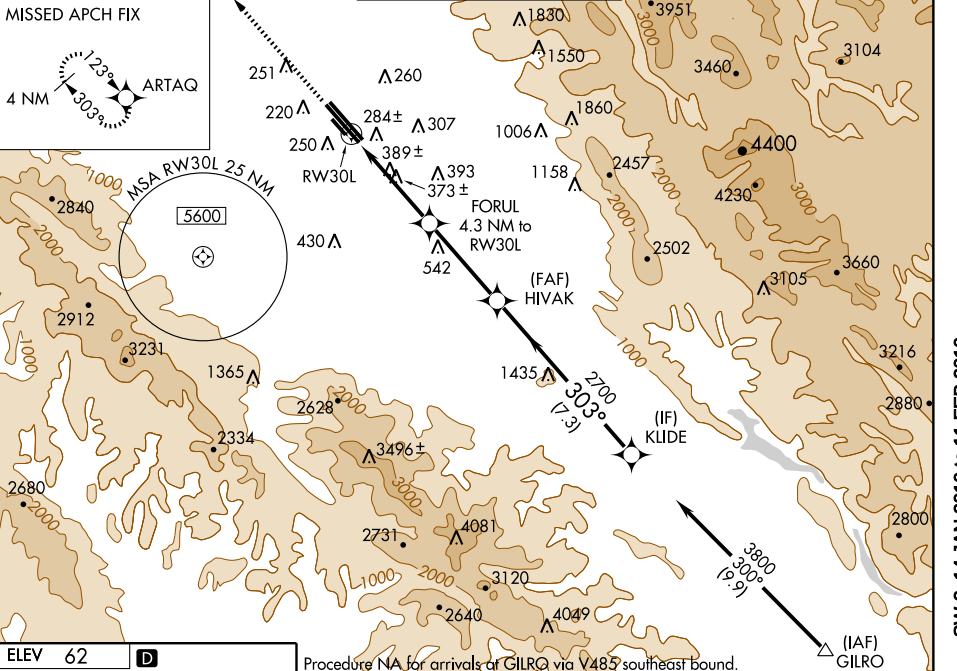
WAAS CH 97306 W30A	APP CRS 303°	Rwy Idg 30L 7605 TDZE 57 Apt Elev 62	Rwy Idg 30R 7479 TDZE 55 Apt Elev 62	Rwy Idg 29 4599 TDZE 52 Apt Elev 62	SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC')
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For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -15°C (5°F) or above 49°C (120°F).
DME/DME RNP-0.3 NA.

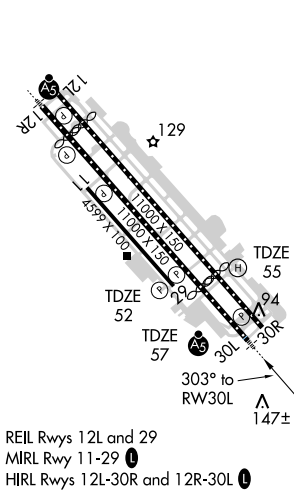
MALSR
Rwy 30L

MISSED APPROACH: Climb to
2800 direct ARTAQ and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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ELEV 62	D
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2800

ARTAQ

VGSI and RNAV glidepath not coincident.

KLIDE

Procedure
Turn
NA

FORUL
4.3 NM to
RW30L

HIVAK

2700

3800

* LNAV only

* 1.6 NM to
RW30L

RW30L

1480*

2700

303°

GS 3.00°
TCH 55°

1.6

2.7

3.7 NM

7.3 NM

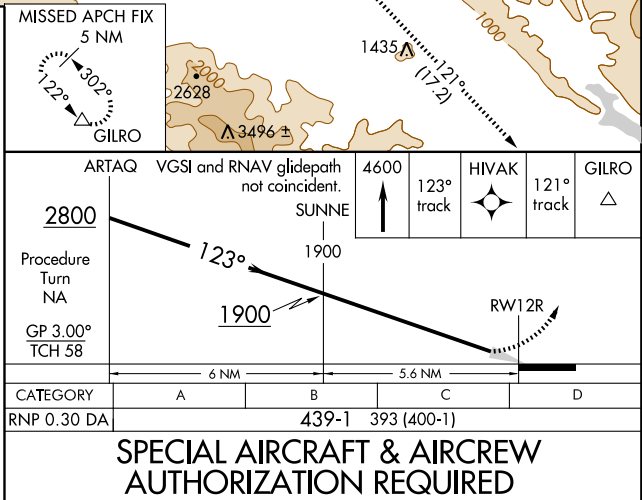
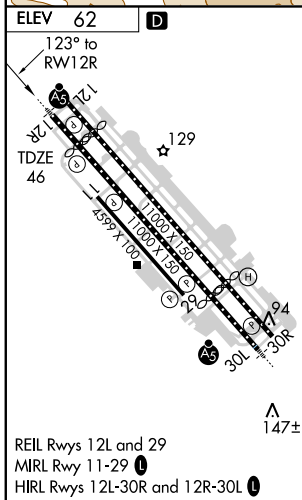
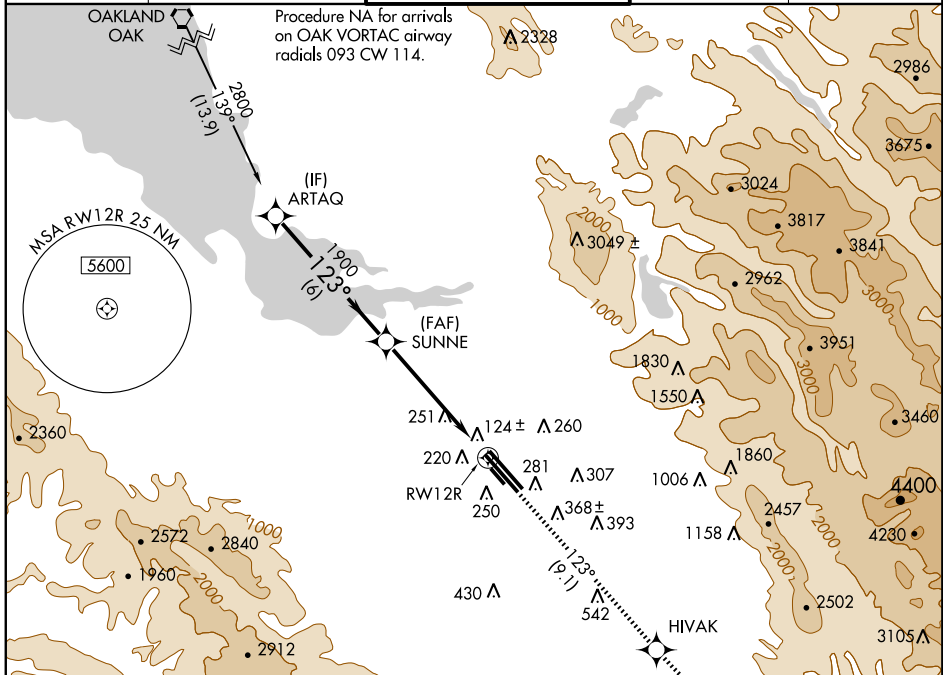
CATEGORY	A	B	C	D
LPV DA	334/24 277 (300-½)			
LNAV/ VNAV DA	586/60 529 (600-¼)			
LNAV MDA	640/24 583 (600-½)	640/50 583 (600-1)	640/60 583 (600-¼)	
SIDESTEP 30R	640-1 585 (600-1)	640-1½ 585 (600-½)	640-2 585 (600-2)	
SIDESTEP 29	640-1 588 (600-1)	640-1½ 588 (600-½)	640-2 588 (600-2)	
CIRCLING	NA			

SW-2, 14 JAN 2010 to 11 FEB 2010

RNAV (RNP) Z RWY 12R

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)

APP CRS 123°	Rwy Idg TDZE Apt Elev	5854 46 62	GPS required. For uncompensated Baro-VNAV systems, procedure NA below 0°C (32°F) or above 48°C (119°F). For inoperative MALSR, increase RNP 0.30 visibility to 1 1/4 mile all Cats.	MALSR 	MISSED APPROACH: Climb to 4600 via 123° trackto HIVAK and via 121° track to GILRO and hold.
ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0	

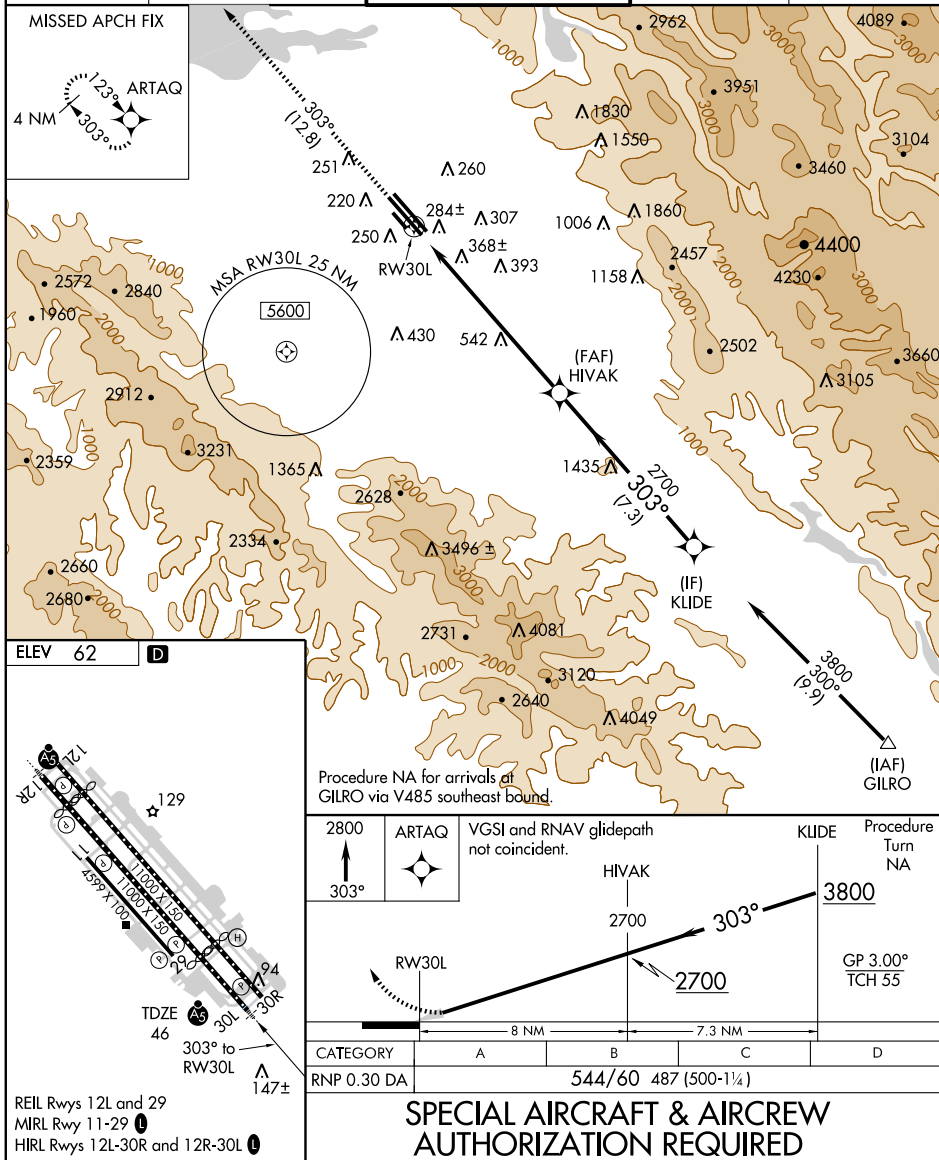


APP CRS 303°	Rwy Idg TDZE Apt Elev	7605 46 62
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RNAV (RNP) Z RWY 30L

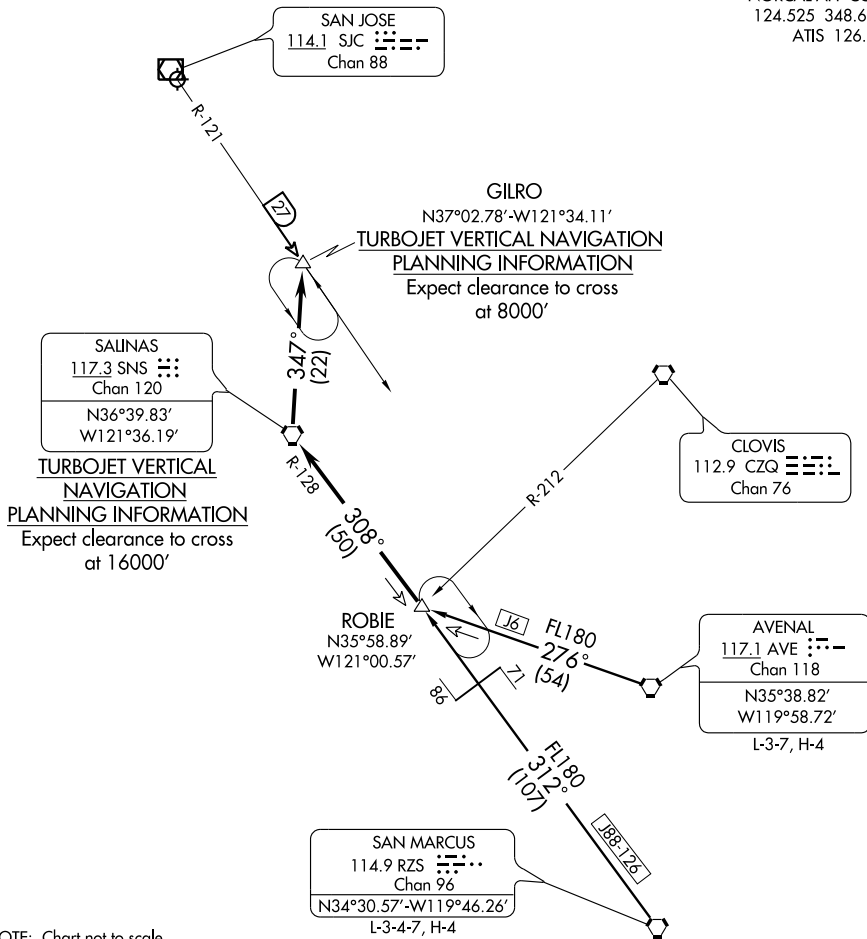
SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)

NA GPS required. For uncompensated Baro-VNAV systems, procedure NA below 0°C (32°F) or above 48°C (119°F). For inoperative MALSR increase RNP 0.30 visibility to 1 3/4 mile all Cats.		MALSR AG	MISSED APPROACH: Climb to 2800 via 303° track to ARTAQ and hold.				
ATIS 126.95		NORCAL APP CON 120.1 290.25		SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6		GND CON 121.7	CLNC DEL 118.0



ROBIE TWO ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIANORCAL APP CON
124.525 348.675
ATIS 126.95

AVENAL TRANSITION (AVE.ROBIE2): From over AVE VORTAC via AVE R-276 to ROBIE INT. Thence

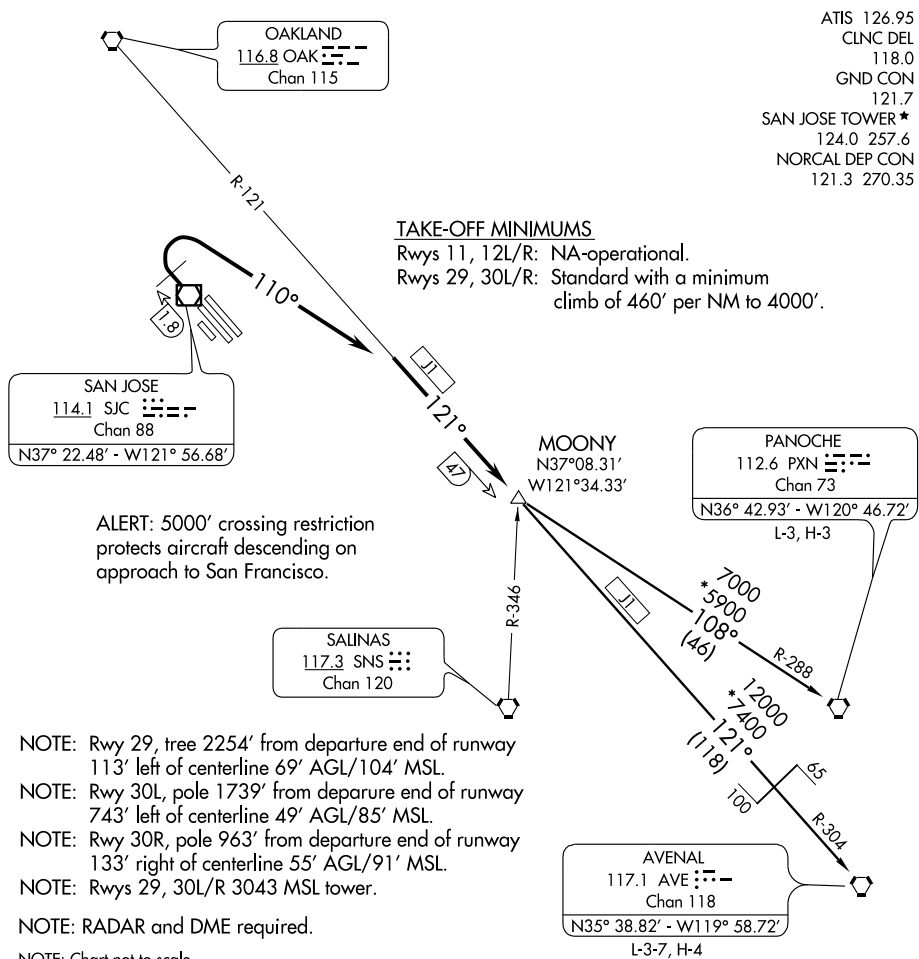
SAN MARCUS TRANSITION (RZS.ROBIE2): From over RZS VORTAC via RZS R-312 to ROBIE INT. Thence

. . . . From over ROBIE INT via SNS R-128 to SNS VORTAC. Then via SNS R-347 to GILRO INT/DME fix. Expect the ILS Rwy 30L approach.

For Rwy 12 operations: Expect routing via SNS direct SJC VOR/DME and radar vectors to the final approach course. Expect clearance to cross SNS at 16000 and cross 25 NM SE SJC at 8000'.

SAN JOSE NINE DEPARTURE

SAN JOSE/ NORMAN Y. MINETA SAN JOSE INTL (SJC)
SL-693 (FAA) SAN JOSE, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L/R: NA

TAKE-OFF RUNWAYS 29, 30L/R: Climb via runway heading to SJC 1.8 DME northwest of SJC VOR/DME. Then turn right heading 110° to intercept and proceed via OAK R-121 to MOONY INT. Thence....

.... via (transition) or (assigned route). Maintain 5000, expect clearance to filed altitude ten minutes after departure.

AVENAL TRANSITION (SJC9.AVE): From over MOONY INT via OAK R-121 and AVE R-304 to AVE VORTAC.

PANOCHE TRANSITION (SJC9.PXN): From over MOONY INT via PXN R-288 to PXN VORTAC.

(SUNOL6.SUNOL) 09351 SUNOL SIX DEPARTURE

SAN JOSE / NORMAN Y. MINETA SAN JOSE (SJC)
SL-693 (FAA) SAN JOSE, CALIFORNIA

ATIS 126.95
CLNC DEL
118.0
GND CON
121.7
SAN JOSE TOWER ★
124.0 257.6
NORCAL DEP CON
121.3 270.35

OAKLAND
116.8 OAK
Chan 115

ALTAM
N37°48.73'
W121°44.83'

SACRAMENTO
115.2 SAC
Chan 99
N38° 26.62' - W121° 33.10'
L-2-3, H-3

MANTECA
116.0 ECA
Chan 107
N37° 50.01' - W121° 10.29'
L-2-3, H-3

TRACY
N37°43.89'
W121°27.56'

REIGA
374 LV

SUNOL
N37°36.33'
W121°48.62'
5000

TAKE-OFF MINIMUMS

Rwys 29, 30L/R: Standard with a minimum climb of 460' per NM to 4000'.

Rwys 11, 12L/R: Standard with a minimum climb of 290' per NM to 4000'.

NOTE: Radar required.

NOTE: Chart not to scale.

SAN JOSE
114.1 SJC
Chan 88
N37° 22.48' - W121° 56.68'

NOTE: SUNOL departure restricted to prop aircraft only.
NOTE: DME required for Rwys 29, 30L/R departures.

NOTE: Rwy 29, tree 2254' from departure end of runway 113' left of centerline 63' AGL /102' MSL.

NOTE: Rwy 30L, pole 1739' from departure end of runway 743' left of centerline 55' AGL /91' MSL.

NOTE: Rwy 30R, pole 963' from departure end of runway 133' right of centerline 49' AGL /85' MSL.

NOTE: Rwys 12L/R, building 1.34 NM from departure end of runway 1008' left of centerline 271' AGL/329' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L/R: Climb via heading 123° to intercept and proceed via OAK R-129 to 4000. Then turn left heading 300° for radar vectors to intercept and proceed via SJC R-009 to SUNOL INT. Thence....

TAKE-OFF RUNWAYS 29, 30L/R: Climb runway heading at SJC 1.8 DME northwest of SJC VOR/DME, turn right heading 040° to intercept and proceed via SJC R-009 to SUNOL INT. Thence....

...Cross SUNOL INT at 5000', then via (transition) or (assigned route).

MANTECA TRANSITION (SUNOL6.ECA): From over SUNOL INT via ECA R-229 to ECA VORTAC.

SACRAMENTO TRANSITION (SUNOL6.SAC): From over SUNOL INT via SAC R-177 to SAC VORTAC.

MISSED APPROACH: Climb to 2100 via SJC VOR/DME R-303 to SUNNE INT/SJC 5 DME and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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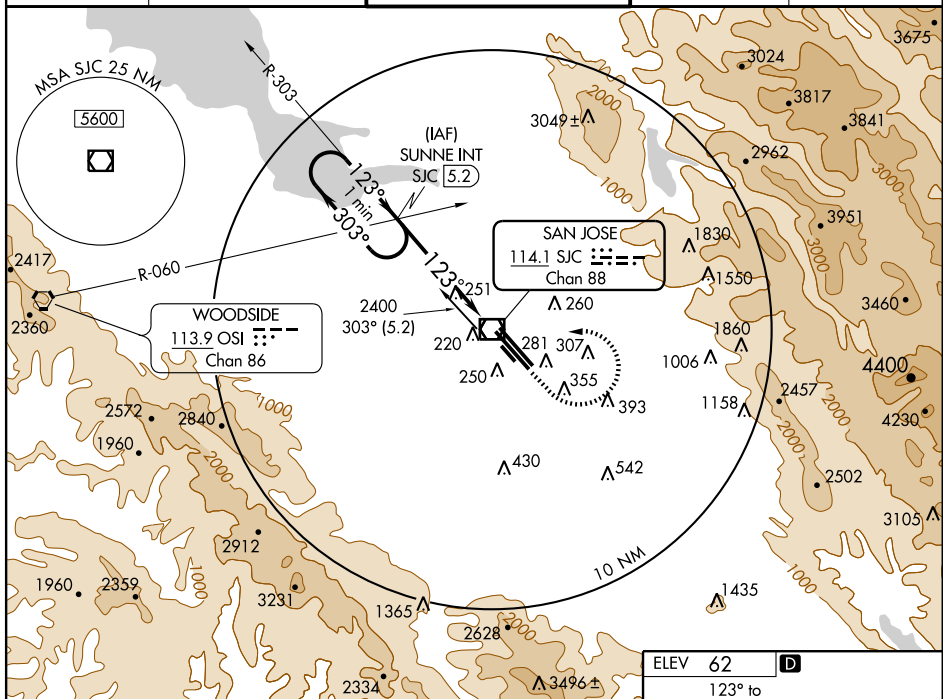
2100 SJC R-303 SUNNE INT		VGSI and descent angles not coincident		FINOR SJC 16.8	
VOR/DME		SJC 3.2		HARNA SJC 10	
CISUN SJC 1.5		FASIK SJC 6.6		4300	
≤ 3.30° TCH 69		1900		2600	
1.7 NM		3.4 NM		3.4 NM	
CATEGORY		A		B	
S-30R		660-1 607 (700-1)		660-1 607 (700-1)	
CIRCLING		660-1 601 (700-1)		680-1 621 (700-1)	
		660-1 607 (700-1)		680-1 621 (700-1)	

SW-2, 14 JAN 2010 to 11 FEB 2010

VOR RWY 12R

SAN JOSE / NORMAN Y.
MINETA SAN JOSE INTL (SJC)

MISSED APPROACH: Climb to 900, then climbing left turn to 2000, direct SJC VOR/DME and R-303 to SUNNE Int/SJC 5.2 DME and hold.

CLNC DEL
118.0

900 ↑	2000 ↖	SJC  114.1	SJC R-303	SUNNE INT SJC 5.2
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GSI and descent angles are coincident.

CATEGORY	A	B	C	D
S-12R	540-1/2 494 (500-1/2)		540-3/4 494 (500-3/4)	540-1 494 (500-1)
SIDESTEP RWY 12L	540-1 496 (500-1)		540-2 496 (500-2)	
SIDESTEP RWY 11	540-1 491 (500-1)		540-2 491 (500-2)	
CIRCLING	640-1 578 (600-1)	680-1 618 (700-1)	720-1 658 (700-1 3/4)	720-2 658 (700-2)

ELEV 62

123° to VOR/DME

TDZE 44

TDZE 46

TDZE 49

11000 X 50

11000 X 50

30L 50

30R 50

129

147

REIL Rwy 12L and 29

MIRL Rwy 11-29

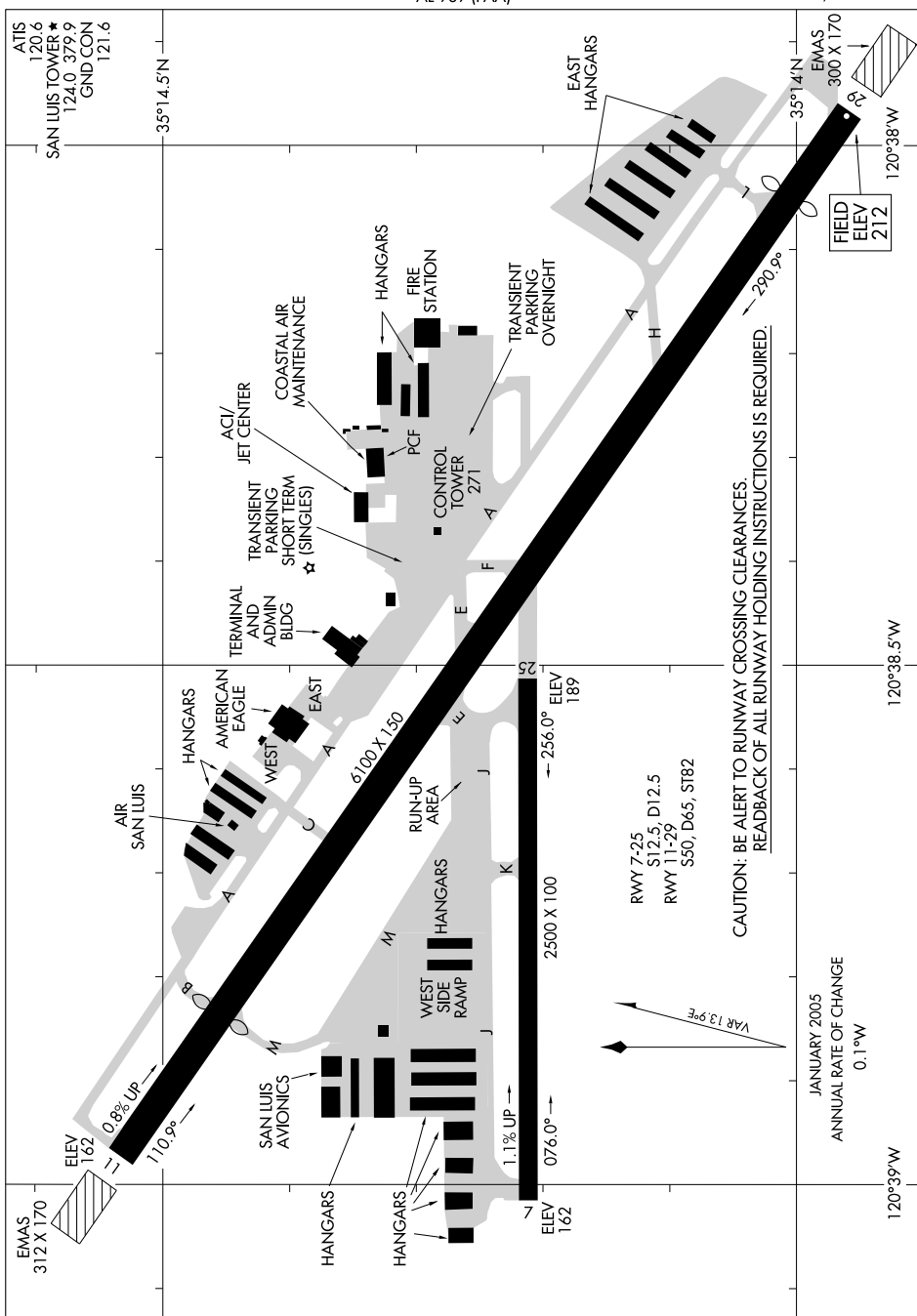
HIRL Rwy 12L-30R and 12R-30L

SW-2. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

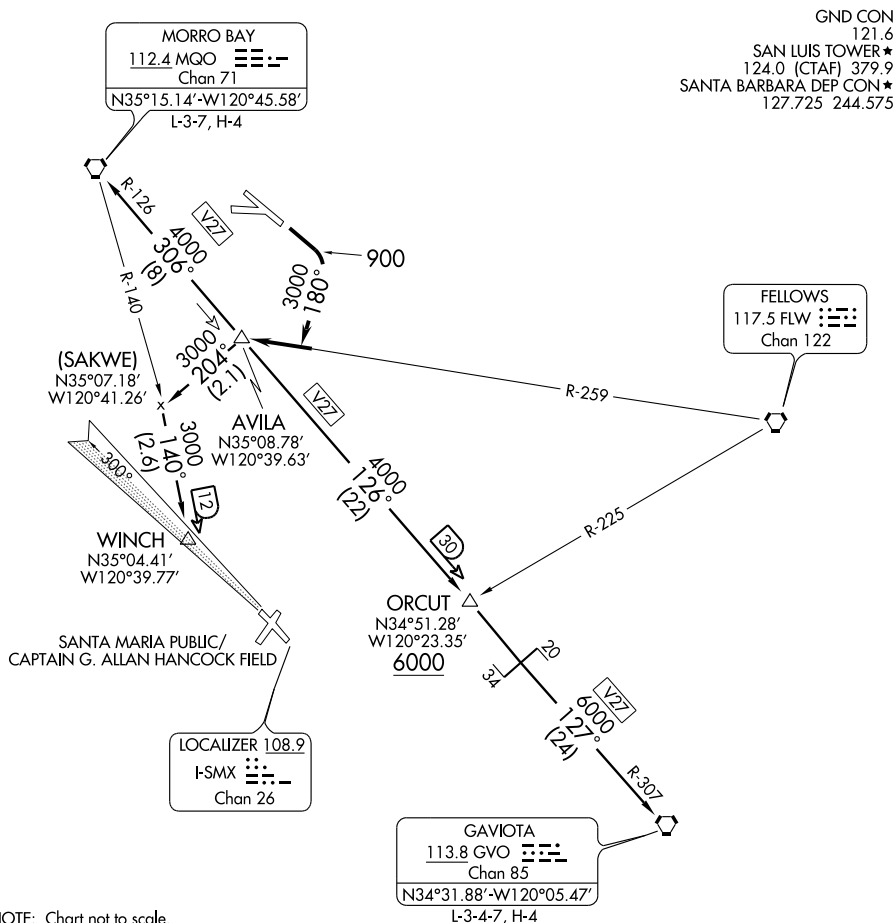
AL-989 (FAA)

SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA



AVILA THREE DEPARTURE

SL-989 (FAA)

SAN LUIS COUNTY RGNI (SBP)
SAN LUIS OBISPO, CALIFORNIA

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Maintain runway heading to 900', then climbing right turn to 3000' or assigned altitude, heading 180° to intercept FLW R-259 to AVILA INT, then via (transition) or (assigned route).

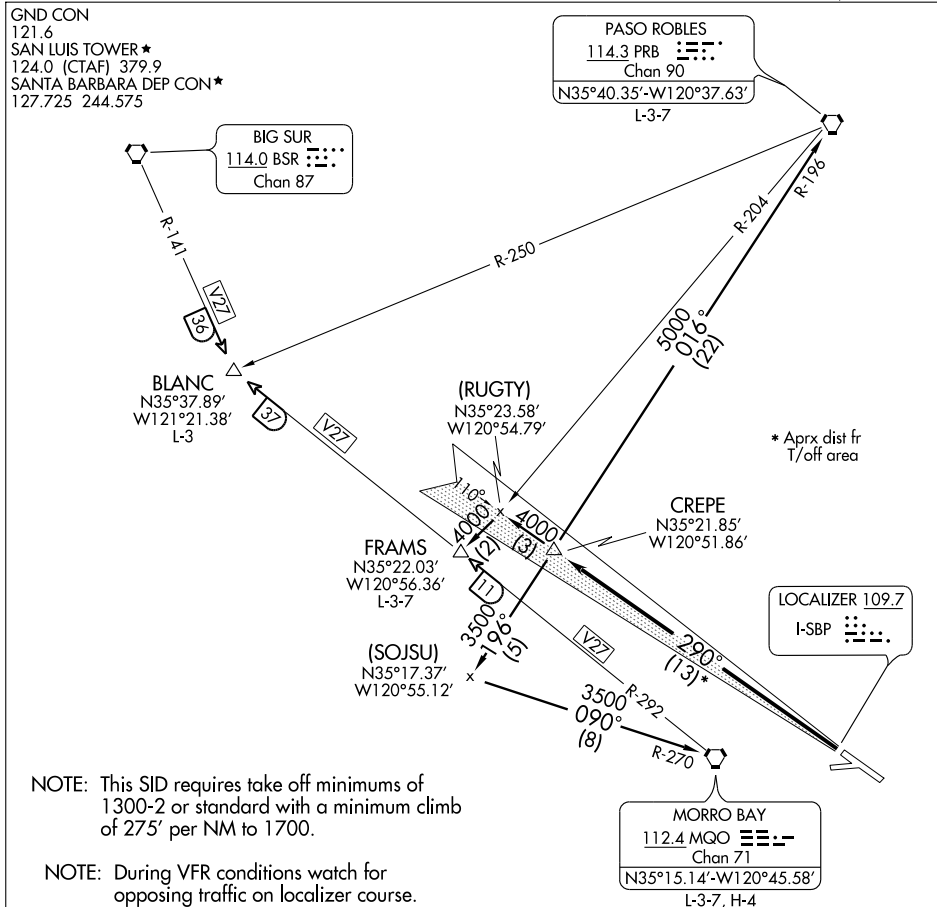
GAVIOTA TRANSITION (AVILA3.GVO): From over AVILA INT via V27 to GVO VORTAC.

MORRO BAY TRANSITION (AVILA3.MQO): From over AVILA INT via V27 to MQO VORTAC.

WINCH TRANSITION (AVILA3.WINCH): From over AVILA INT via heading 204° 2.1 NM, to intercept MQO R-140 to WINCH INT 2.6 NM.

CREPE THREE DEPARTURE

SL-989 (FAA)

SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA

NOTE: This SID requires take off minimums of 1300-2 or standard with a minimum climb of 275' per NM to 1700.

NOTE: During VFR conditions watch for opposing traffic on localizer course.

NOTE: This procedure applicable to Runway 29 departures only.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 29: Climb via San Luis Obispo localizer I-SBP west course to CREPE INT; thence via (transition) or (assigned route).

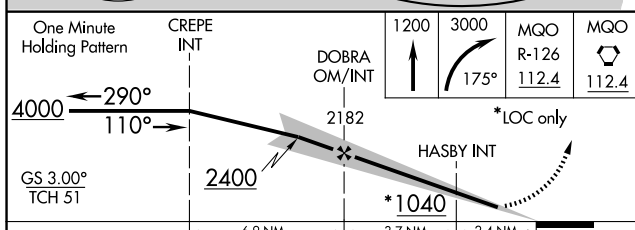
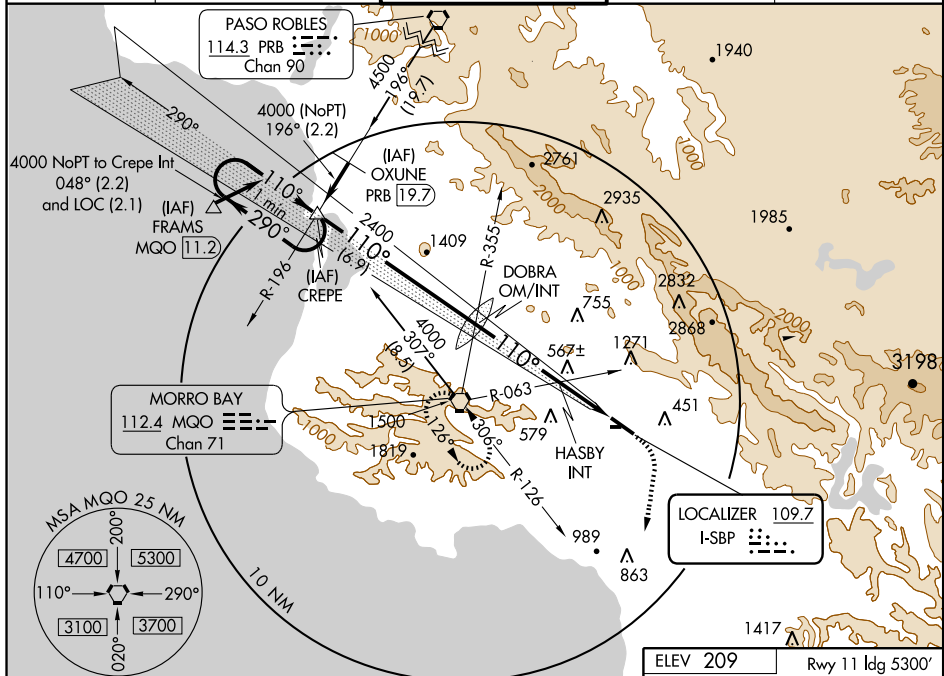
FRAMS TRANSITION (CREPE3.FRAMS): From over CREPE INT via I-SBP LOC west course and PRB R-204 to FRAMS INT.

MORRO BAY TRANSITION (CREPE3.MQO): From over CREPE INT via PRB R-196 and MQO R-270 to MQO VORTAC.

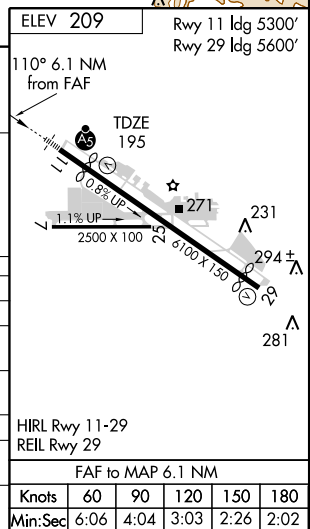
PASO ROBLES TRANSITION (CREPE3.PR): From over CREPE INT via PRB R-196 to PRB VORTAC.

LOC I-SBP	APP CRS	Rwy Idg	5300
109.7	110°	TDZE	195
		Apt Elev	209

Circling NA north of Rwy 11-29.		MALSR	MISSED APPROACH: Climb to 1200, then climbing right turn to 3000 via heading 175° and MQO R-126 to MQO VORTAC and hold.	
ATIS 120.6	SANTA BARBARA APP CON* 127.725 244.575	SAN LUIS TOWER* 124.0 (CTAF) 0 379.9	GND CON 121.6	UNICOM 122.95



CATEGORY	A	B	C	D
S-ILS 11	395- 1/2 200 (200-1/2)			
S-LOC 11	1040- 1/2 845 (900-1/2)	1040- 3/4 845 (900- 3/4)	1040-2 845 (900-2)	1040-2 1/4 845 (900-2 1/4)
CIRCLING	1040-1 831 (900-1)	1040-1 1/4 831 (900-1 1/4)	1120-2 3/4 911 (1000-2 3/4)	1220-3 1011 (1100-3)
HASBY INT MINIMUMS				
S-LOC 11	540- 1/2 345 (400-1/2)			540- 3/4 345 (400- 3/4)
CIRCLING	840-1 631 (700-1)	920-1 711 (800-1)	1120-2 3/4 911 (1000-2 3/4)	1220-3 1011 (1100-3)



GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

NA

Circling NA north of Rwy 11-29.

Inoperative table does not apply to LNAV Cat A.

MALS

MISSED APPROACH: Climb to 3300 via 111° course to CADAB WP and hold.

ATIS 120.6	SANTA BARBARA APP CON* 127.725 244.575	SAN LUIS TOWER* 124.0 (CTAF) 379.9	GND CON 121.6	UNICOM 122.95
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ELEV 209

Rwy 11 ldg 5300'
Rwy 29 ldg 5600'

103° to RW11

TDZE 195

0.9% UP

1.1% UP

2500 X 100

6100 X 130

231

271

294 ±

281

HIRL Rwy 11-29

REIL Rwy 29

Procedure Turn NA	CREPE		JAMPO		3300	CADAB
	3300		2400		111°	
		117°	103°	2.5 NM to RW11	RW11	
		6.2 NM	3.00° TCH 50	4.4 NM	2.5 NM	
CATEGORY	A	B	C	D		
LNAV MDA	1000-1 805 (800-1)	1000-1½ 805 (800-1½)	1000-2½ 805 (800-2½)	1000-2½ 805 (800-2½)		
CIRCLING	1000-1 791 (800-1)	1040-1½ 831 (900-1½)	1100-2¾ 891 (900-2¾)	1220-3 1011 (1100-3)		

SW-3. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5600
290°	TDZE	209
	Apt Elev	209

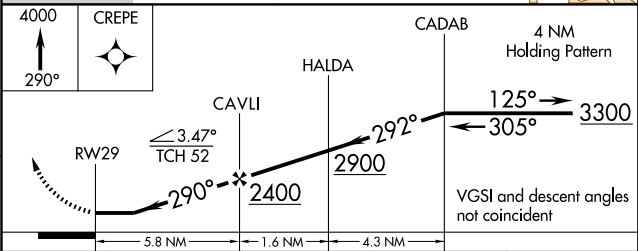
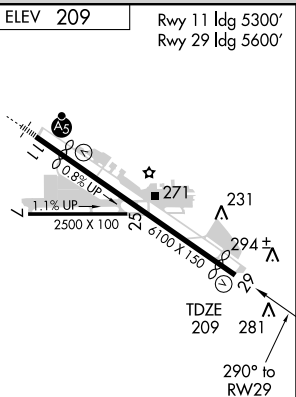
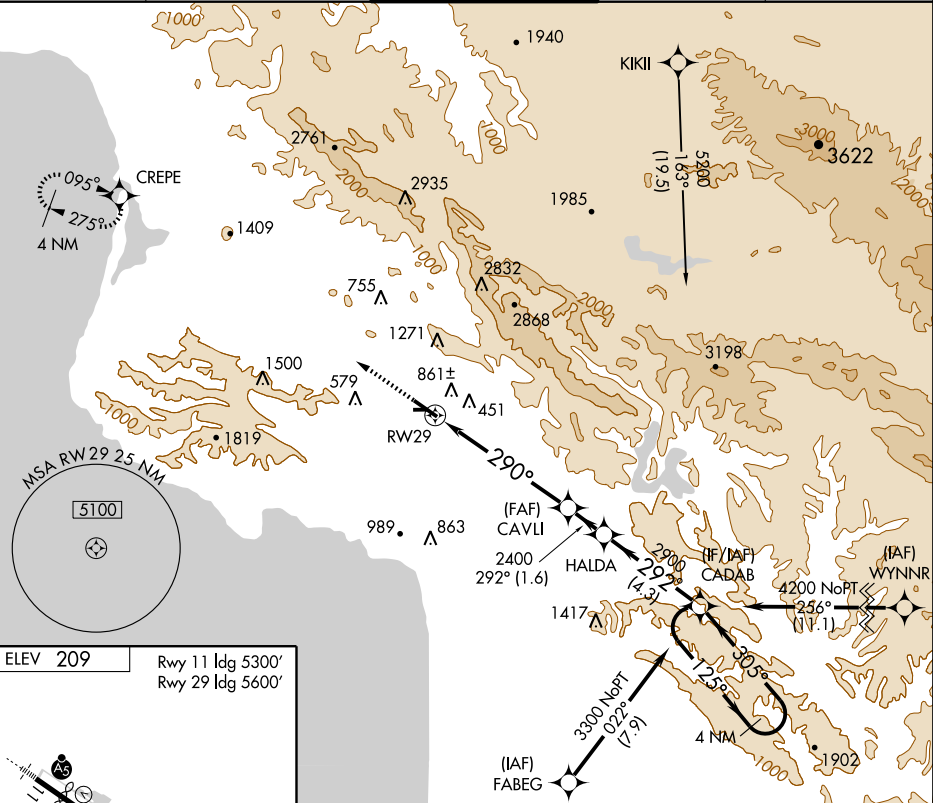
AL-989 (FAA)

RNAV (GPS) RWY 29

SAN LUIS COUNTY RGNL (SBP)

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 4000 via 290° course to CREPE WP and hold.
Circling NA north of Rwy 11-29.	

ATIS 120.6	SANTA BARBARA APP CON* 127.725 244.575	SAN LUIS TOWER* 124.0 (CTAF) 379.9	GND CON 121.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAB MDA	1040-1 831 (900-1)	1040-1½ 831 (900-1½)	1040-2½ 831 (900-2½)	1040-2¾ 831 (900-2¾)
CIRCLING	1180-1¼ 971 (1000-1¼)	1180-1½ 971 (1000-1½)	1180-3 971 (1000-3)	1220-3 1011 (1100-3)

VOR or TACAN-A

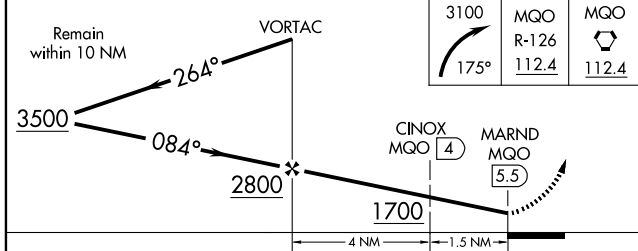
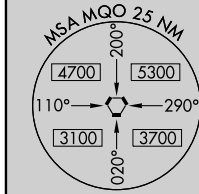
SAN LUIS COUNTY RGNL (SBP)

VORTAC MQO 112.4 Chan 71	APP CRS 084°	Rwy Idg TDZE Apt Elev N/A N/A 209	
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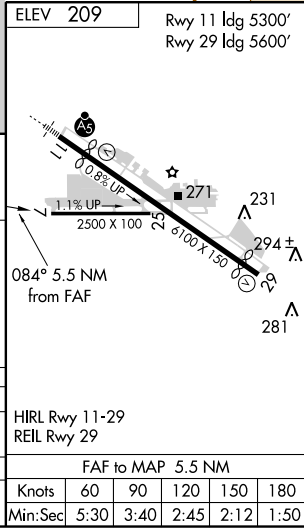
⚠ Circling NA north of Rwy 11-29.

MISSED APPROACH: Climbing right turn to 3100 via heading 175° and MQO R-126 to MQO VORTAC and hold. (TACAN Aircraft continue climb to 4000 via MQO R-292 to FRAMS 11.2 DME and hold east, right turns, 292° inbound.)

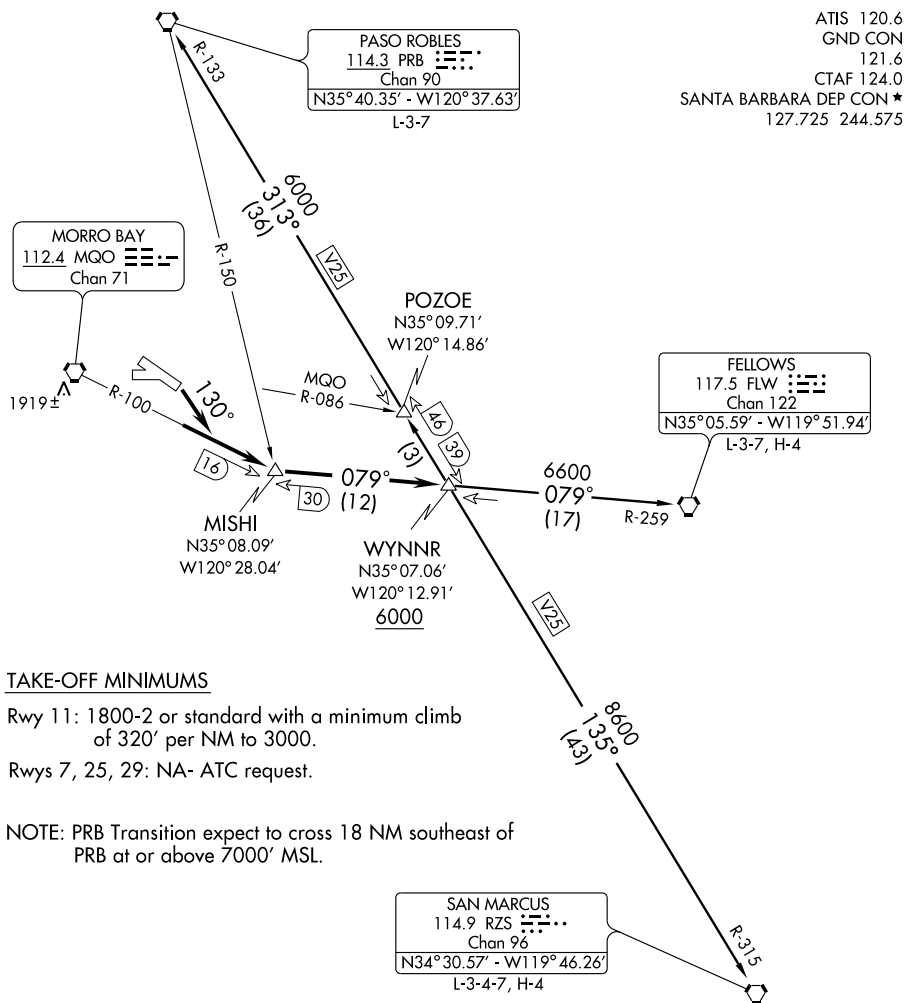
ATIS 120.6	SANTA BARBARA APP CON ★ 127.725 244.575	SAN LUIS TOWER ★ 124.0 (CTAF) 379.9	GND CON 121.6	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	1700-1¼ 1491 (1500-1¼)	1700-1½ 1491 (1500-1½)	1700-3 1491 (1500-3)	
TACAN OR DME MINIMA				
CIRCLING	1120-1¼ 911 (1000-1¼)	1160-2¾ 951 (1000-2¾)	1280-3 1071 (1100-3)	



WYNNR TWO DEPARTURE



TAKE-OFF MINIMUMS

Rwy 11: 1800-2 or standard with a minimum climb of 320' per NM to 3000.

Rwys 7, 25, 29: NA- ATC request.

NOTE: PRB Transition expect to cross 18 NM southeast of PRB at or above 7000' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Turn right heading 130° to intercept and proceed via MQO R-100 to MISHI INT, then via FLW R-259 to WYNNR INT. Thence via (transition) or assigned route.

FELLOWS TRANSITION (WYNNR2.FLW): From over WYNNR INT via FLW R-259 to FLW VORTAC.

PASO ROBLES TRANSITION (WYNNR2.PRB): From over WYNNR INT via PRB R-133 to PRB VORTAC.

SAN MARCUS TRANSITION (WYNNR2.RZS): From over WYNNR INT via RZS R-315 to RZS VORTAC.

UNICOM
122.7 (CTAF) **L**

Circling not authorized west of Rwy 14-32.
Use Norman Y. Mineta San Jose Intl altimeter setting.

122.7 (CTAF) L



MIRL Rwy 14-32 L

SAN NICOLAS TOWER ★
126.85 379.3

SW-3, 14 JAN 2010 to 11 FEB 2010

ARMING/
DEARMING

12

ELEV
485

119°8'0"

33°15'N

E28(B)

TERMINAL

CONTROL
TOWER

HANGARS

(H)

10,002 x 194

119°26'11"

33°14'N

119°27'W

E28(B)

FIELD
ELEV
506

Rwy 12-30
PCN 63 R/C/W/T

Rwy 12 tkof and ldg 9012'

VAR 12.8° E

AUGUST 2009
ANNUAL RATE OF CHANGE
0.1° W

A

E

B

C

D

E

F

G

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LOC I-NSI 109.7	APCH CRS 299°	Rwy ldg TDZE Arpt Elev 10,002 506 506
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AL-5162 [USN]

SAN NICOLAS ISLAND NOLF

(NSI)

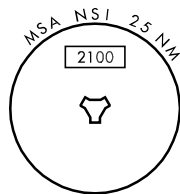
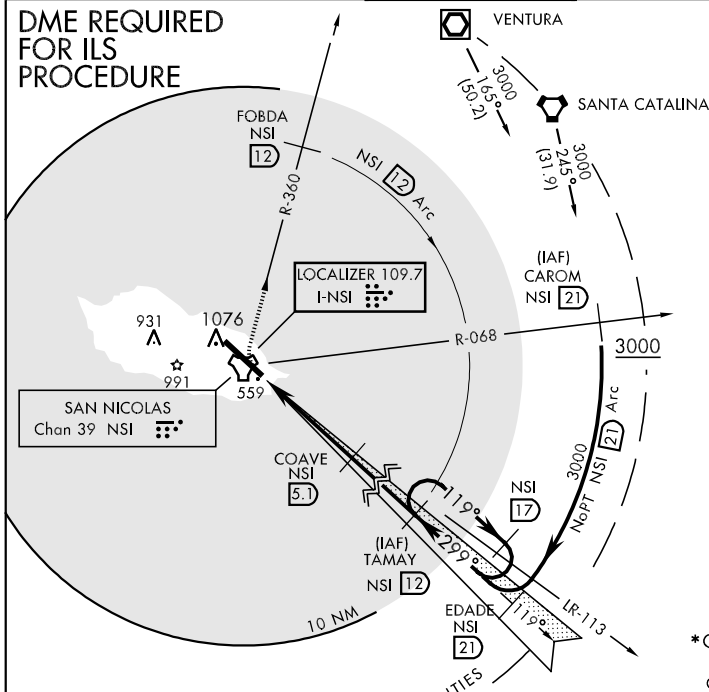


**Circling not authorized W of Rwy 12-30.

*MISSED APPROACH: Climbing right turn to 3000, intep NSI R-360 to FOBDA, then arc E on NSI 12 mile arc to TAMAY and hold.

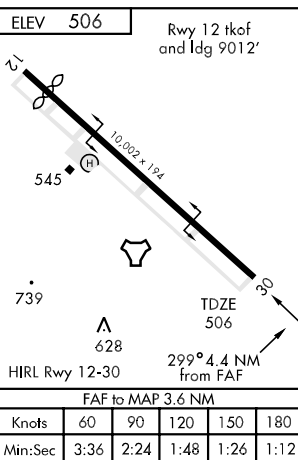
SAN NICOLAS TOWER ★
126.85 379.3

DME REQUIRED
FOR ILS
PROCEDURE



*CAUTION: Missed Approach
Minimum Climb Rate to 1300
Controlling Obstacle 1076'

EMERG SAFE ALT 100 NM 10,900

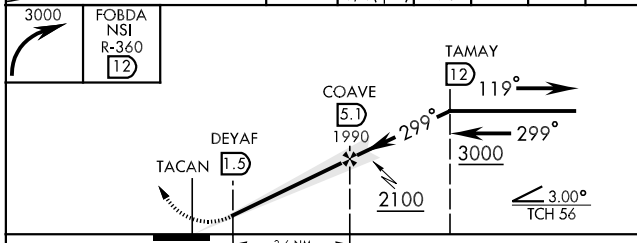


ENROUTE FACILITIES

3000

FOBDA NSI R-360 [12]

	Knots	60	120	180	240
ILS	V/V(fpm)	240	480	720	960
LOC	V/V(fpm)	270	540	810	1080



CATEGORY	A	B	C	D	E
S-ILS 30		706-¾	200	(200-¾)	
S-LOC 30		760-1	254	(300-1)	
CIRCLING**	860-1 354 (400-1)	960-1 454 (500-1)	960-1½ 454 (500-1½)	1060-2	554 (600-2)

APCH CRS **299°** Rwy Idg **10,002**
 TDZE **506**
 Arpt Elev **506**

AL-5162 [USN]

SAN NICOLAS ISLAND NOLF

(NSI)



**Circling not authorized W of Rwy 12-30.

*MISSED APPROACH: Climb to 2000 via crs 299° to FEGAV, then climbing rgt turn to 3000 via crs 028° to FOBDA, then turn rgt via crs 103° to CAROM, then turn rgt via crs 215° to TAMAY and hold.

SAN NICOLAS TOWER ★
126.85 379.3

GPS REQUIRED FOR ILS PROCEDURE

VENTURA

108.2 VTU

Chan 19

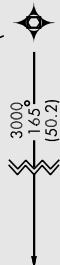


FOBDA

* CAUTION: Missed Approach Minimum
 Climb Rate to 1300 (ILS), 1400 (RNAV)

	Knots	60	120	180	240
ILS	V/V(fpm)	230	460	690	920
RNAV	V/V(fpm)	360	720	1080	1440

Controlling Obstacle 1076'



FEGAV

LOCALIZER 109.7
 I-NSI

931

1076'

991

RW30

(FAF)
 HILER

TAMAY

(IAF)
 CAROM

3000

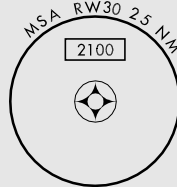
245°

(31.9)

SANTA CATALINA

111.4 SXC

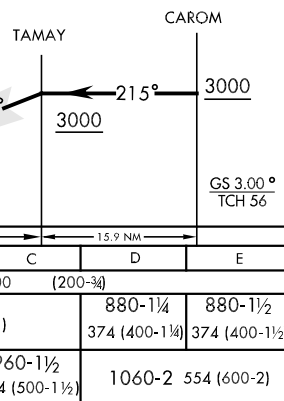
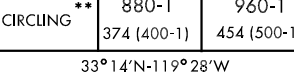
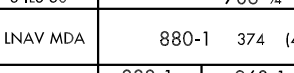
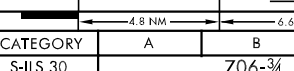
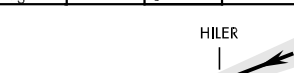
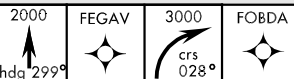
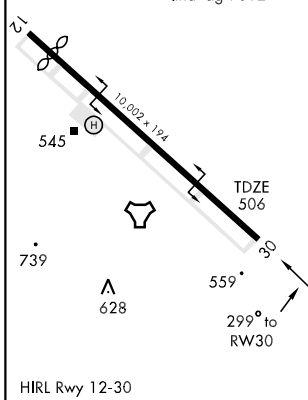
Chan 51



EMERG SAFE ALT 100 NM 10,900

ELEV 506

Rwy 12 tkof
 and Idg 9012'



	A	B	C	D	E
CATEGORY	A	B	C	D	E
S-ILS 30	706-3/4	200	(200-3/4)		
RNAV MDA	880-1	374 (400-1)		880-1 1/4 374 (400-1 1/4)	880-1 1/2 374 (400-1 1/2)
CIRCLING **	880-1 374 (400-1)	960-1 454 (500-1)	960-1 1/2 454 (500-1 1/2)	1060-2	554 (600-2)

TACAN Chan 39	NSI 289°	APCH CRS 289°	Rwy Idg 10,002 TDZE Arpt Elev 506
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AL-5162 [USN]

SAN NICOLAS ISLAND NOLF

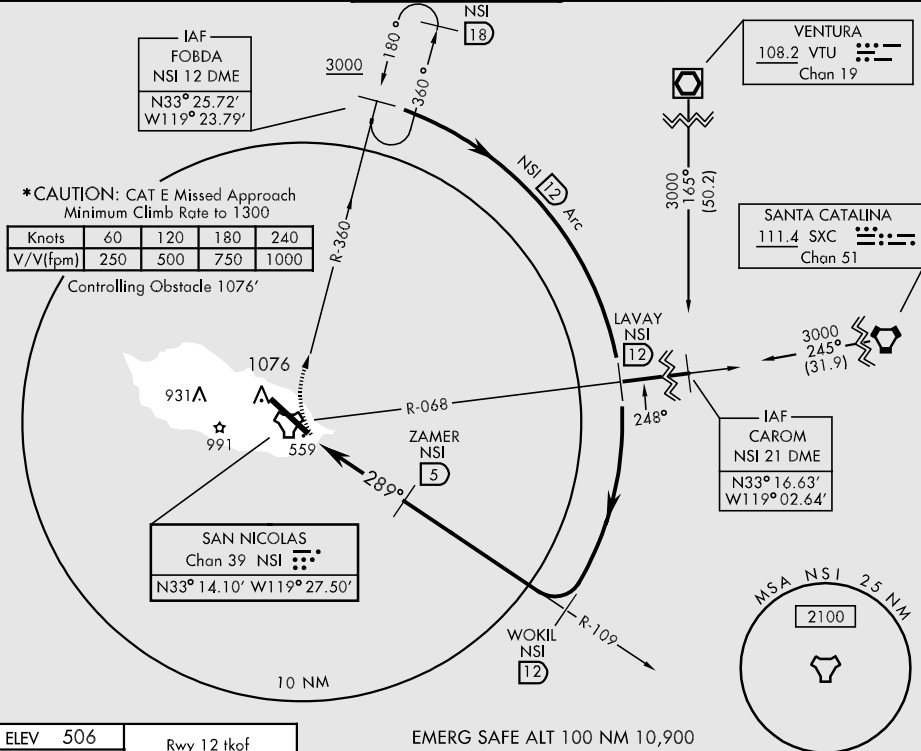
(NSI)



**Circling not authorized W of Rwy 12-30.

* MISSED APPROACH: Climbing right turn to 3000, intcp the NSI R-360 to FOBDA and hold.

SAN NICOLAS TOWER ★
126.85 379.3

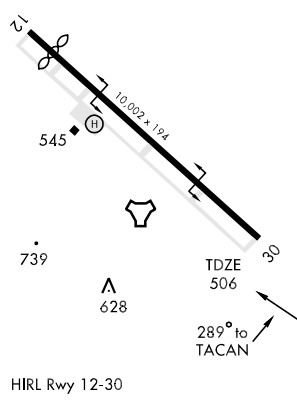


SW-3, 14 JAN 2010 to 11 FEB 2010

ELEV 506

Rwy 12 tkof
and Idg 9012'

EMERG SAFE ALT 100 NM 10,900



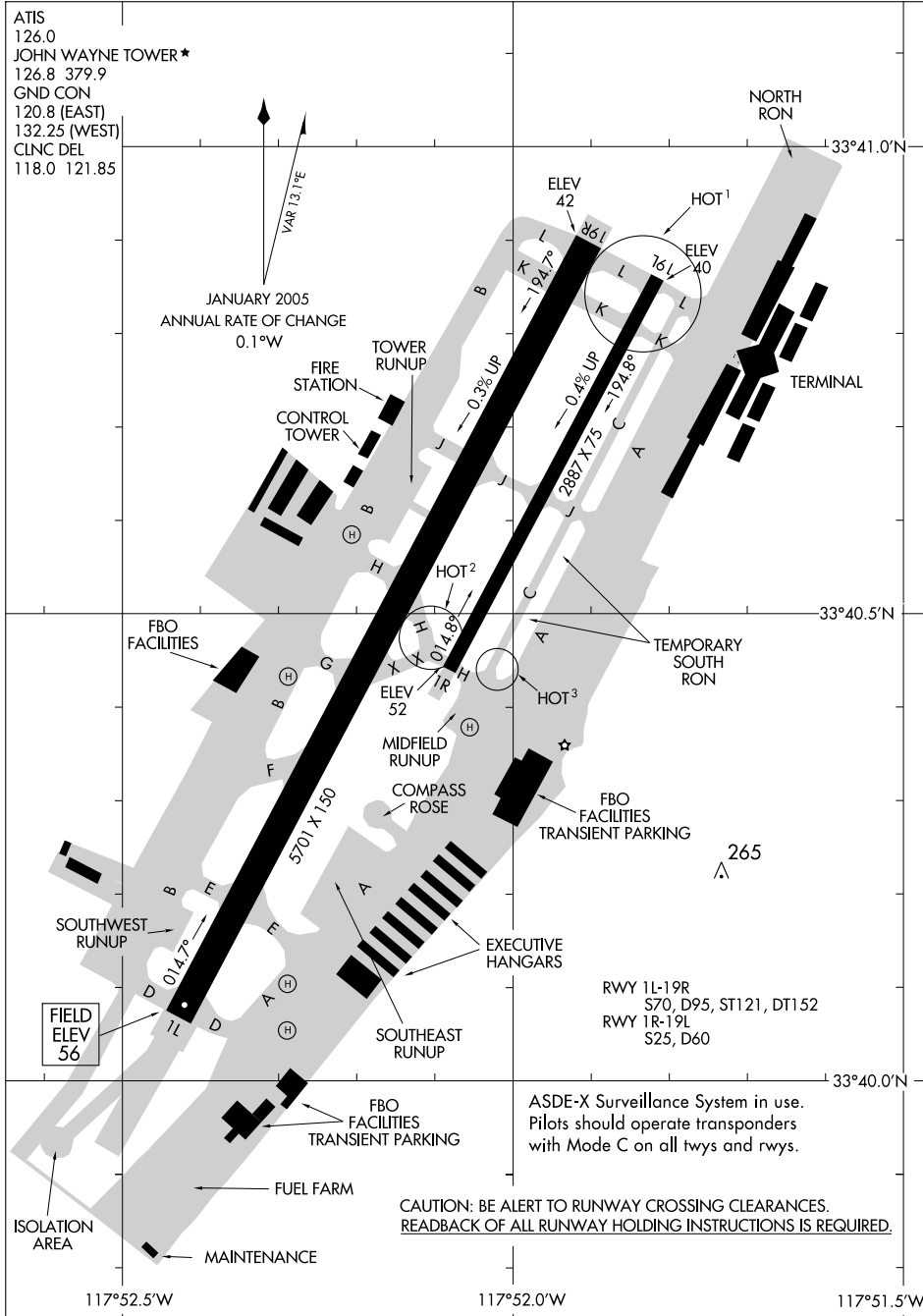
	3000 NSI R-360	FOBDA NSI 12	WOKIL R-109 12	LAVAY R-068 12	CAROM R-068 21
		ZAMER 5			
		289°	2600	248°	3000
		1800			
		2.83° TCH 50			
		3.5 NM			
CATEGORY	A	B	C	D	E
S-30	820-1 314 (400-1)				
CIRCLING **	860-1 354 (400-1)	960-1 454 (500-1)	960-1½ 454 (500-1½)	1060-2 554 (600-2)	

AIRPORT DIAGRAM

SANTA ANA / JOHN WAYNE ARPT-ORANGE COUNTY (SNA)

AL-377 (FAA)

SANTA ANA, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 19L/R: Turn right heading 220° for radar vectors to SLI VORTAC. Thence....

TAKE-OFF RUNWAYS 1L/R:

HECTOR or LAKE HUGHES TRANSITION: Turn left heading 330° for radar vectors to SLI VORTAC. Thence....

VENTURA TRANSITION: Turn left heading 240° for radar vectors to LAX VORTAC. Thence....

....via (transition) or (assigned route). Maintain 2000 feet. Expect clearance to filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM3.HEC): From over SLI VORTAC via SLI R-058 and PDZ R-238 to PDZ VORTAC, then via PDZ R-012 and HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM3.LHS): From over SLI VORTAC via SLI R-058 and PDZ R-238 to POXKU INT, then via POM R-164 to BAYJY INT, then via VNY R-095 to DARTS INT. Thence via SLI R-319 and LHS R-139 to LHS VORTAC.

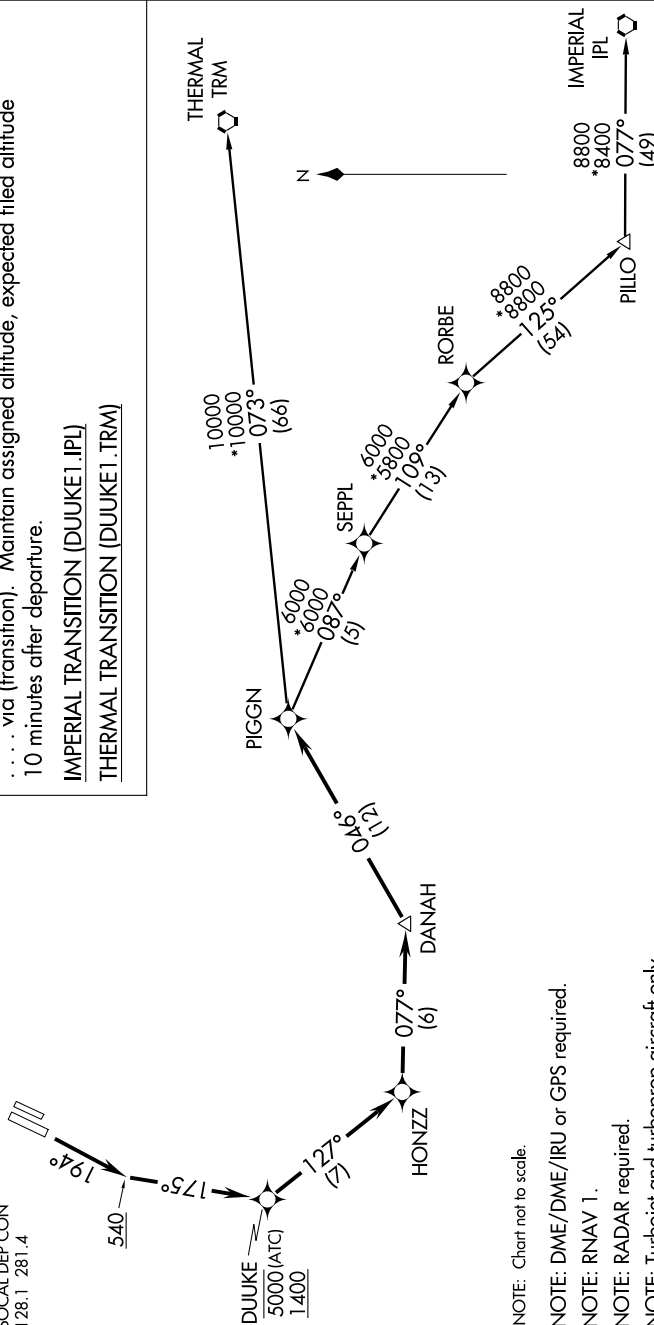
VENTURA TRANSITION (ANAHM3.VTU): From over SLI VORTAC via SLI R-251 to WILMA INT, then via LAX R-123 to LAX VORTAC, then via LAX R-276 and VTU R-093 to VTU VOR/DME.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19R: Climb heading 194° to at or above 540, then intercept 175° course to DUUKE, then via depicted route to PIGGN, thence via (transition). Maintain assigned altitude, expected filed altitude 10 minutes after departure.

IMPERIAL TRANSITION (DUUKE1.IPL)

THERMAL TRANSITION (DUUKE1.TRM)



TAKE-OFF OBSTACLE NOTES

RWY 19R: Windsock on hangar 536' from DER, 605' left of centerline, 44' AGL/92' MSL.

Multiple trees beginning 289' from DER, 500' right of centerline, up to 52' AGL/108' MSL.

Light poles beginning 204' from DER, 490' right of centerline, up to 35' AGL/85' MSL.

Tree 1574' from DER, 765' left of centerline, 59' feet AGL/113' MSL.

ATIS 126.0
CINC DEL
118.0
GND CON
120.8 (EAST)
132.25 (WEST)
SOCAL DEP CON
128.1 281.4

NOTE: Chart not to scale.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: Turbojet and turboprop aircraft only.

NOTE: Aircraft may be vectored to DANAH or PIGGN.

TAKE-OFF MINIMUMS

Rwys 1L/R and 19L: NA - ATC.

Rwy 19R: Standard, ATC climb of 365' per NM to 540.



DEPARTURE ROUTE DESCRIPTION

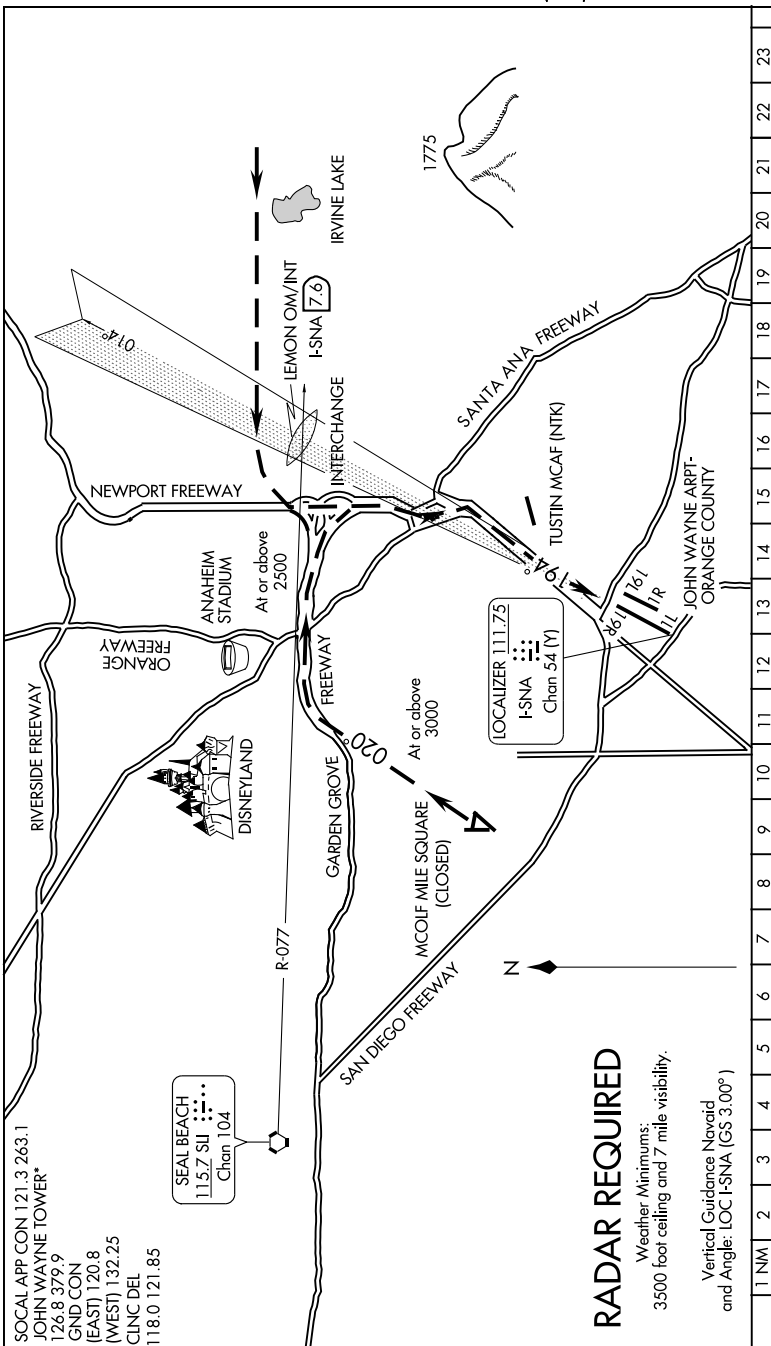
TAKE-OFF RUNWAY 1L: Climb heading 014° for vectors to ELB VOR/DME, then via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by ELB R-332, turn right direct ELB VOR/DME, climb to 7000 and proceed via assigned transition or route. Climb to filed altitude ten minutes after departure.

IMPERIAL TRANSITION (ELB1.IPL): From over ELB VOR/DME via ELB R-095 to JARDO INT, then via PDZ R-135 to WODON INT, then via MZB R-076 and IPL R-258 to GWIRE INT, then via IPL R-258 to IPL VORTAC.

OCEANSIDE TRANSITION (ELB1.OCN): From over ELB VOR/DME via ELB R-165 to SUBMR, then via OCN R-282 to OCN VORTAC.

THERMAL TRANSITION (ELB1.TRM): From over ELB VOR/DME via ELB R-095 to BOLDE INT, then via SXC R-061 to TEYKI INT, then via TRM R-263 to TRM VORTAC.



FREEWAY VISUAL RWY 19R
PROCEDURE NOT AUTHORIZED AT NIGHT

LOC/DME I-SNA <u>111.75</u> Chgn 54 (Y)	APP CRS 194°	Rwy Idg 5701 TDZE 55 Apt Elev 56
---	------------------------	---

ILS or LOC RWY 19R
SANTA ANA/ JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

T *RVR 1800 authorized with the use of FD or AP
A or HUD to DA

MALSR

MISSED APPROACH: Climb to 3000 via I-SNA
south course to MINOE Int/I-SNA 10.9 DME.

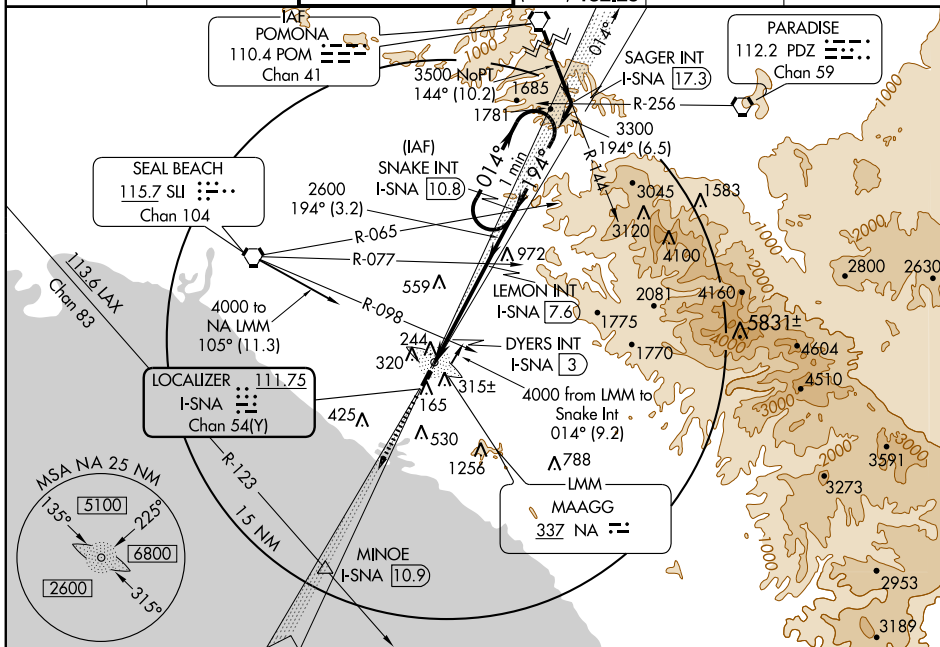
ATIS
126.0

SOCAL APP CON
121.3 263.1

JOHN WAYNE TOWER★
126.8 (CTAF) **L** 379.9

GND CON
(EAST) **120.8**
(WEST) **132.25**

CLNC DEL
118.0 121.85

UNICOM
122.95

ELEV 56

194° 6.5 NM from FAF

TDZE 55

861 ft

761 ft

2887 ft

2807 ft

2701 ft

130 ft

104 ft

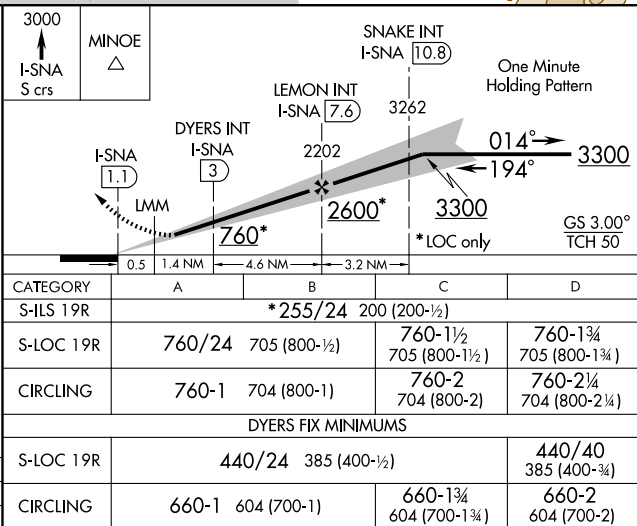
210± ft

REIL Rwy 19L

MIRL Rwy 1R-19L

HIRL Rwy 1L-19R

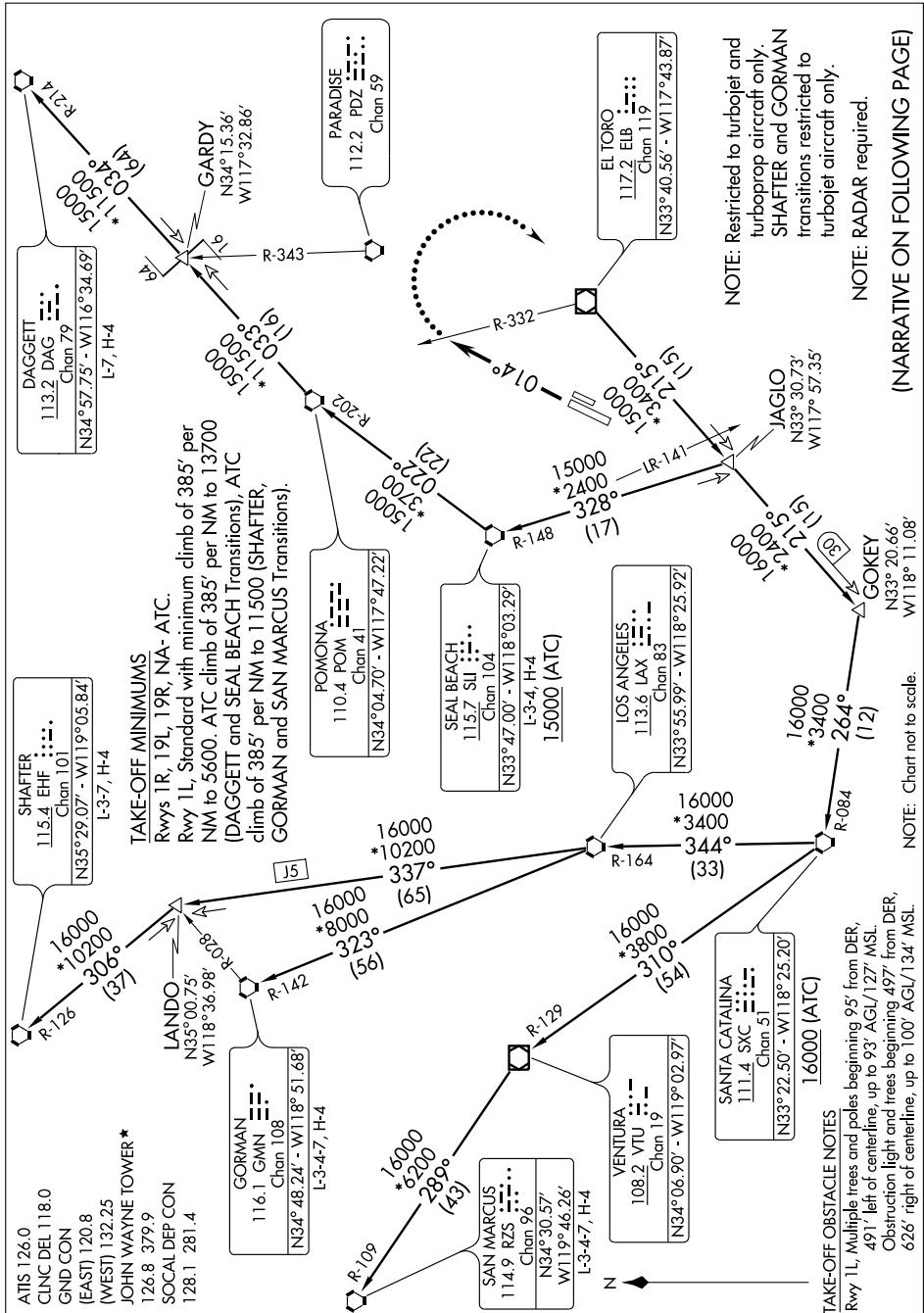
FAF to MAP 6.5 NM					
Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10



IRVINE ONE DEPARTURE

SL-377 (FAA)

SANTA ANA, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb heading 014° for vectors to ELB R-215, then via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by ELB R-332, turn right direct ELB VOR/DME, climb to 7000 and proceed via assigned transition or route. Climb to filed altitude ten minutes after departure.

DAGGETT TRANSITION (IRV1.DAG): From over ELB VOR/DME via ELB R-215 to JAGLO INT, then via SLI R-148 to SLI VORTAC, then via SLI R-022 and POM R-202 to POM VORTAC, then via POM R-033 to GARDY INT, then via DAG R-214 to DAG VORTAC.

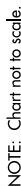
GORMAN TRANSITION (IRV1.GMN): From over ELB VOR/DME via ELB R-215 to GOKEY INT, then via SXC R-084 to SXC VORTAC, then via SXC R-344 and LAX R-164 to LAX VORTAC, then via LAX R-323 and GMN R-142 to GMN VORTAC.

SAN MARCUS TRANSITION (IRV1.RZS): From over ELB VOR/DME via ELB R-215 to GOKEY INT, then via SXC R-084 to SXC VORTAC, then via SXC R-310 and VTU R-129 to VTU VOR/DME, then via VTU R-289 and RZS R-109 to RZS VORTAC.

SEAL BEACH TRANSITION (IRV1.SLI): From over ELB VOR/DME via ELB R-215 to JAGLO INT, then via SLI R-148 to SLI VORTAC.

SHAFTER TRANSITION (IRV1.EHF): From over ELB VOR/DME via ELB R-215 to GOKEY INT, then via SXC R-084 to SXC VORTAC, then via SXC R-344 and LAX R-164 to LAX VORTAC, then via LAX R-337 to LANDO INT, then via EHF R-126 to EHF VORTAC.

LONG BEACH, CALIFORNIA



LOC/DME I-OJW 108.3 Chan 20	APP CRS 181°	Rwy Idg 5701 TDZE 52 Apt Elev 54
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LDA RWY 19R
SANTA ANA/JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)



MAISR



MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SLI VORTAC.

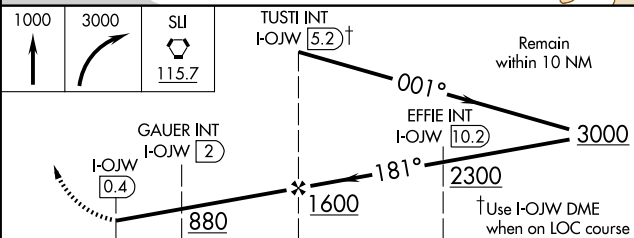
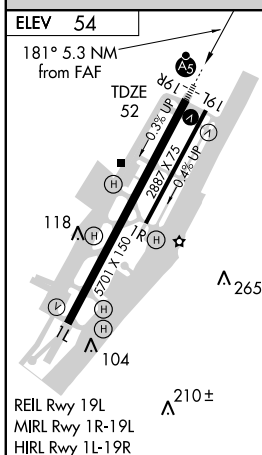
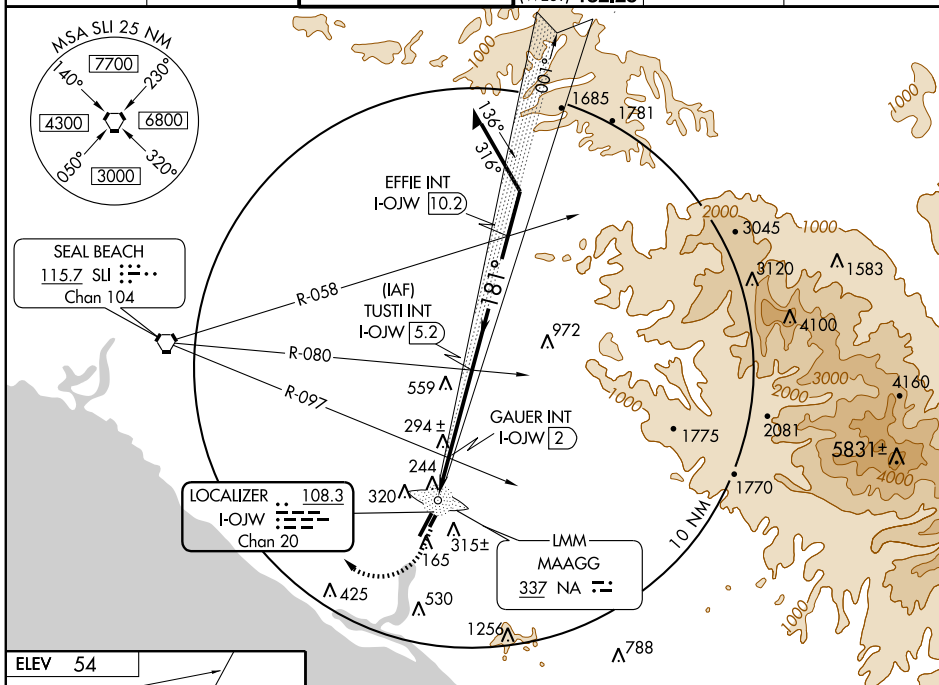
ATIS
126.0

SOCAL APP CON
121.3 263.1

JOHN WAYNE TOWER★
126.8 (CTAF) **L** 379.9

GND CON
(EAST) **120.8**
(WEST) **132.25**

CLNC DEL
118.0 121.85

UNICOM
122.95

	0.5	1.6 NM	3.2 NM	5 NM	
CATEGORY	A	B	C	D	
S-19R	880/24 828 (900-½)	880/40 828 (900-¾)	880-2 828 (900-2)	880-2¼ 828 (900-2¼)	
CIRCLING	880-1 826 (900-1)	880-1¼ 826 (900-1¼)	880-2½ 826 (900-2½)	880-2¾ 826 (900-2¾)	
GAUER FIX MINIMUMS					
S-19R	480/24 428 (500-½)		480/40 428 (500-¾)	480/50 428 (500-1)	
CIRCLING	660-1 606 (700-1)		660-1¾ 606 (700-1¾)		660-2 606 (700-2)

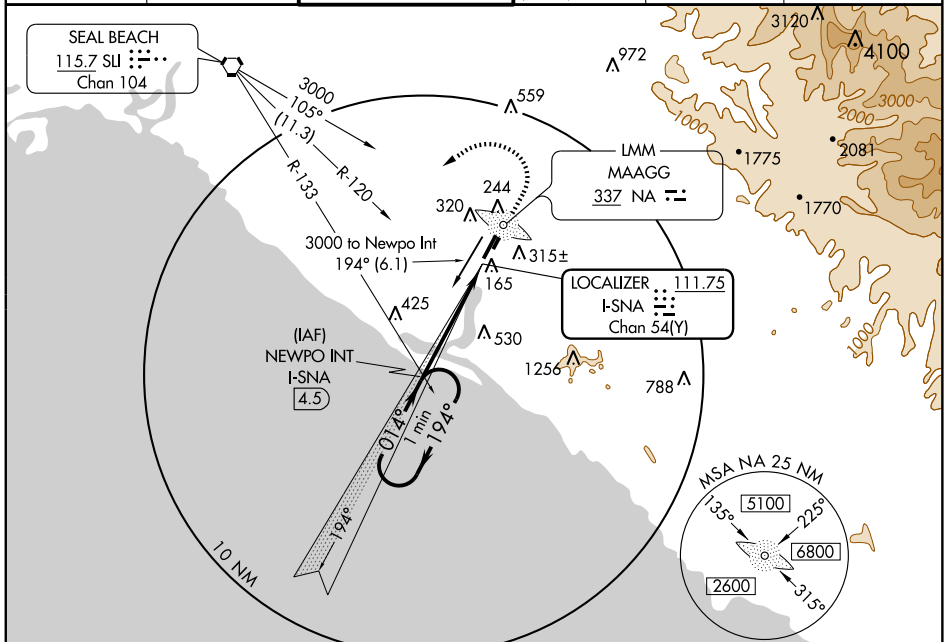
LOC/DME I-SNA 111.75 Chan 54(Y)	APP CRS 014°	Rwy Idg TDZE Apt Elev	5701 54 54
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SANTA ANA/ JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

LOC BC RWY 1L

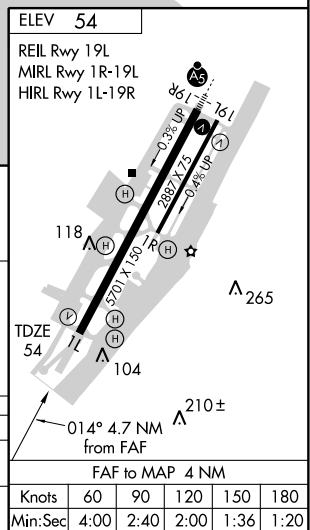
MISSED APPROACH: Climb to 800, then climbing left turn to 2300 via SLI R-120 to SLI VORTAC.	
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ATIS 126.0	SOCAL APP CON 121.3 263.1	JOHN WAYNE TOWER★ 126.8 (CTAF) 0 379.9	GND CON (EAST) 120.8 (WEST) 132.25	CLNC DEL 118.0 121.85	UNICOM 122.95
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BACK COURSE

One Minute Holding Pattern NEWPO INT I-SNA 4.5 2000 ← 194° 014° → 1700 VGSi and descent angles not coincident. Disregard glideslope indications. 3.21° TCH 51 3.5 NM 0.5 0.7					800 2300 SLI R-120 115.7
CATEGORY	A	B	C	D	
S-1L	480-1	426 (500-1)	480-1¼	426 (500-1¼)	
CIRCLING	660-1	606 (700-1)	660-1¾	606 (700-1¾)	660-2 606 (700-2)



MUSEL SIX DEPARTURE

ATIS 126.0
CLNC DEL
118.0
GND CON
(EAST) 120.8
(WEST) 132.25
SOCAL DEP CON
128.1 281.4

POMONA
110.4 POM 
Chan 41

SEAL BEACH
115.7 SLI $\frac{1}{2}$..
Chan 104
N33°47.00'
W118°03.29'
I-3-4, H-4

LOCALIZER 111.75
I-SNA
Chan 54 (Y)

PARADISE
112.2 PDZ 
Chan 59

PALM SPRINGS
115.5 PSP ::::=
Chan 102

SANTA CATALINA
111.4 SXC $\frac{2}{3} \cdot \frac{1}{2} = \frac{1}{3}$
Chan 51

OCEANSIDE
115.3 OCN 
Chan 100
N33°14.44' - W117°25.06'
L-4, H-4

THERMAL
116.2 TRM 
Chan 109
N33°37.69'
W116°09.61'
L-4, H-4

NOTE: Chart not to scale.

NOTE: This departure requires a minimum climb rate of 240' per NM to 2400' MSI.

NOTE: This departure restricted to turbojet and turboprop aircraft only.

NOTE: Radar required.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19L/R: Maintain runway heading or I-SNA localizer south course to I-SNA 1 DME fix or SLI R-118, turn left heading 175° for radar vectors to MUSEL INT, then via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

DAGGETT TRANSITION (MUSEL6.DAG): From over MUSEL INT via SLI R-150 to SLI VORTAC, then via SLI R-022 and POM R-202 to POM VORTAC, then via POM R-033 and DAG R-214 to DAG VORTAC.

OCEANSIDE TRANSITION (MUSEL6.OCN): From over MUSEL INT via OCN R-282 to OCN VORTAC.

SEAL BEACH TRANSITION (MUSEL6.SLI): From over MUSEL INT via SLI R-150 to SLI VORTAC.

THERMAL TRANSITION (MUSEL6.TRM): From over MUSEL INT via SXC R-061 and TRM R-263 to TRM VORTAC.

LMM NA
337

APP CRS
181°

Rwy Idg	5701
TDZE	52
Apt Elev	54

SANTA ANA/JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

NDB RWY 19R



MAISR



MISSED APPROACH: Climb to 1000 via heading 190°, then climbing right turn to 3000 direct SLI VORTAC.

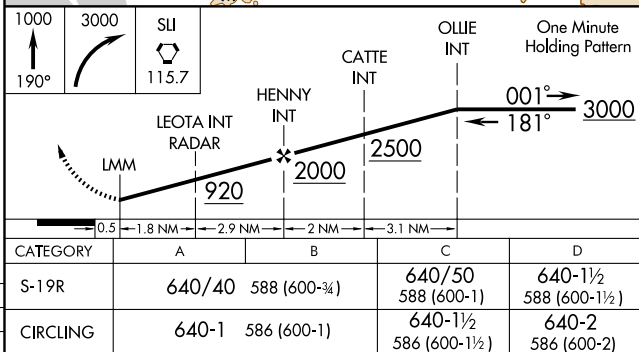
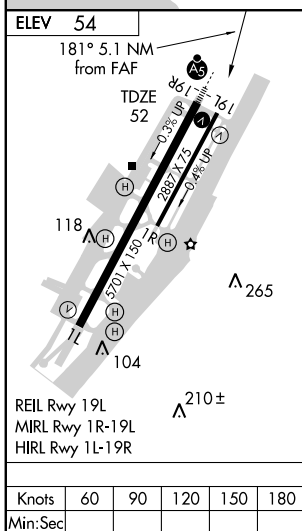
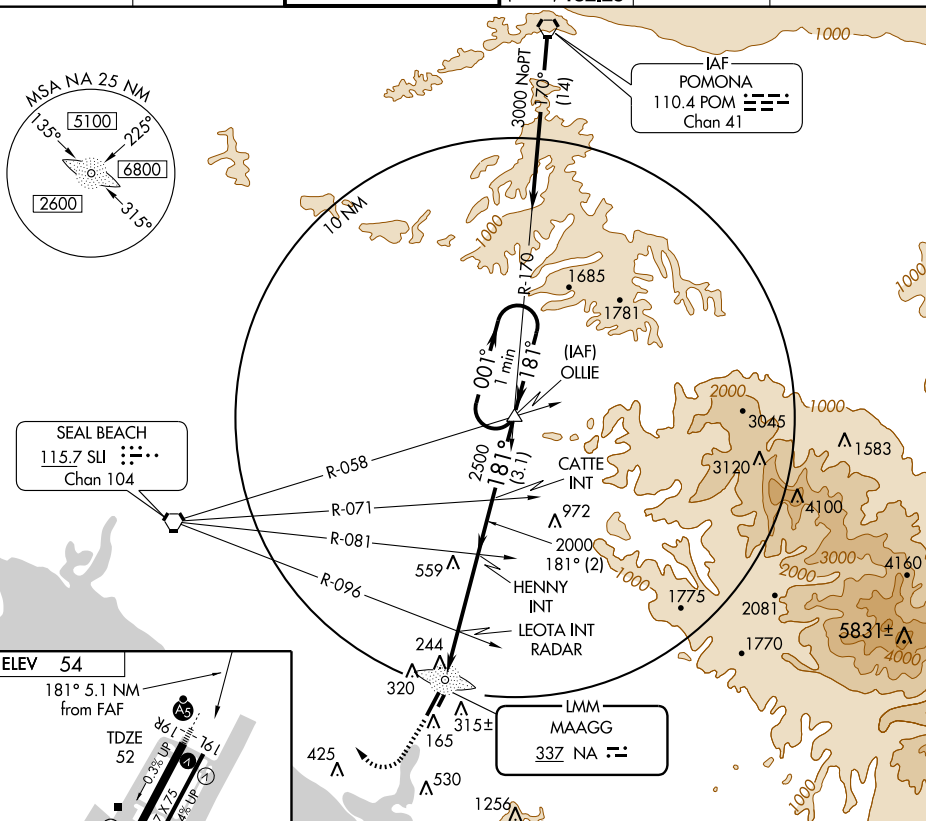
ATIS
126.0

SOCAL APP CON
121.3 263.1

JOHN WAYNE TOWER★
126.8 (CTAF) **L** 379.9

GND CON
(EAST) **120.8**
(WEST) **132.25**

CLNC DEL
118.0 121.85

UNICOM
122.95

NA

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 800 then climbing left turn to 2600 direct SUI VORTAC and hold.

ATIS 126.0	SOCAL APP CON 121.3 263.1	JOHN WAYNE TOWER ★ 126.8 (CTAF) 379.9	GND CON (EAST) 120.8 (WEST) 132.25	CLNC DEL 118.0 121.85	UNICOM 122.95
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5 NM Holding Pattern				
MINOE				
NEWPO				
2 NM to RWY 1L				
RWY 1L				
CATEGORY	A	B	C	D
RNAV MDA	520-1	466 (500-1)	520-1¼ 466 (500-1¼)	520-1½ 466 (500-1½)
CIRCLING	640-1	586 (600-1)	640-1½ 586 (600-1½)	640-2 586 (600-2)

SW-3, 14 JAN 2010 to 11 FEB 2010

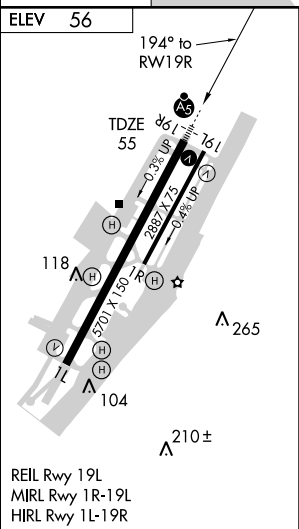
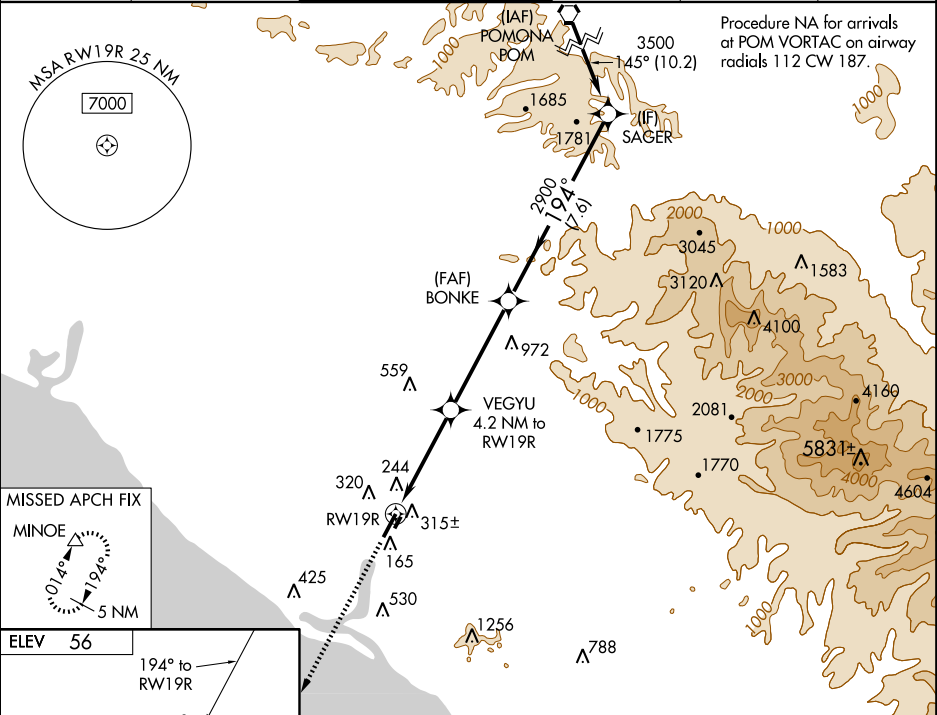
WAAS CH 99502 W19A	APP CRS 194°	Rwy Idg TDZE Apt Elev	5701 55 56
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SANTA ANA/JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

RNAV (GPS) RWY 19R

For inoperative MALSR, increase LPV all Cats visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (121°F). DME/DME RNP- 0.3 NA.	MALSR 	MISSED APPROACH: Climb to 3000 direct MINOE and hold.
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ATIS 126.0	SOCAL APP CON 121.3 263.1	JOHN WAYNE TOWER★ 126.8 (CTAF) 0 379.9	GND CON (EAST) 120.8 (WEST) 132.25	CLNC DEL 118.0 121.85	UNICOM 122.95
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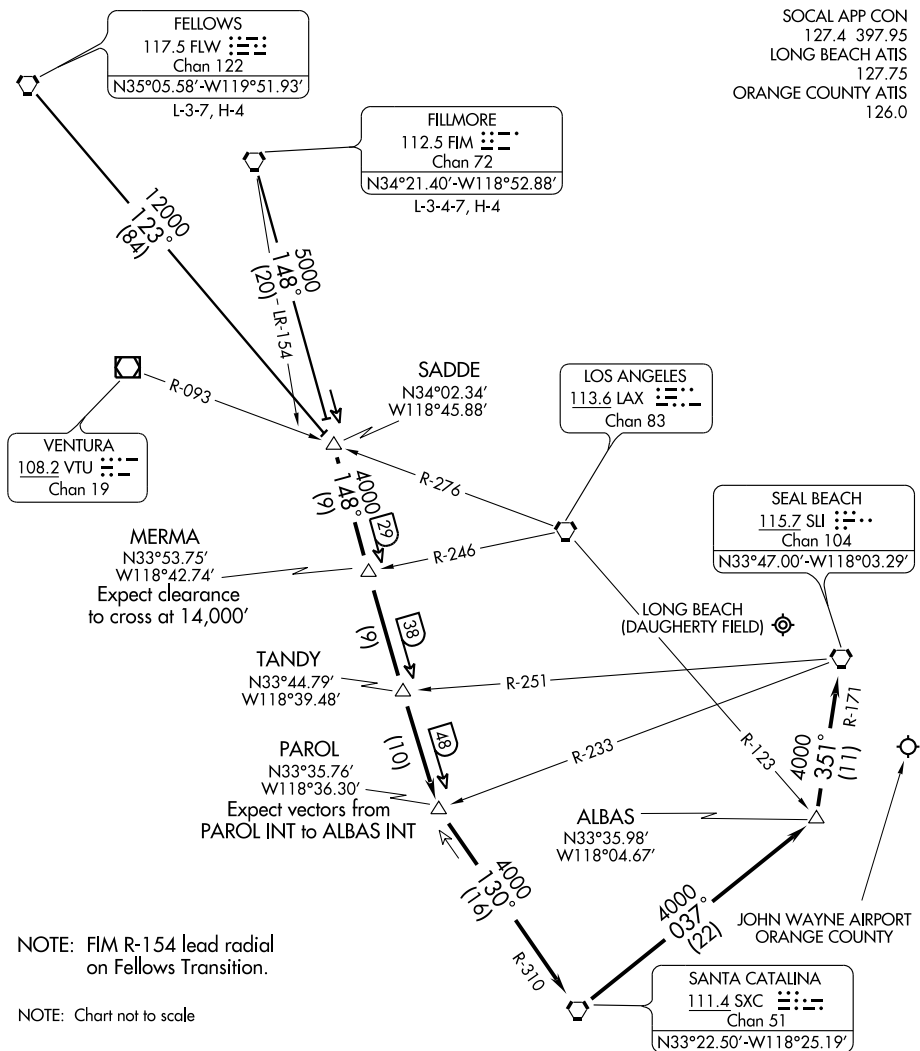


3000 ↑		MINOE △	*LNAV only			SAGER Procedure Turn NA	
			RW19R *1.7 NM to RW19R	VEGYU 4.2 NM to RW19R	BONKE	194°	3500
				1420*		2900	GS 3.00 TCH 50
			1.7	2.5 NM	4.4 NM	7.6 NM	
CATEGORY	A		B		C		D
LPV DA	338/24 283 (300-½)						
LNAV/ VNAV DA	683/1¾ 628 (700-1¾)						
LNAV MDA	620/24		565 (600-½)		620/50 565 (600-1)		620/60 565 (600-1½)
CIRCLING	640-1		584 (600-1)		640-1½ 584 (600-1½)		640-2 584 (600-2)

TANDY THREE ARRIVAL

ST-236 (FAA)

LONG BEACH, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

FELLOWS TRANSITION (FLW.TANDY3): From over FLW VORTAC via FLW R-123 to SADDE INT. Thence....

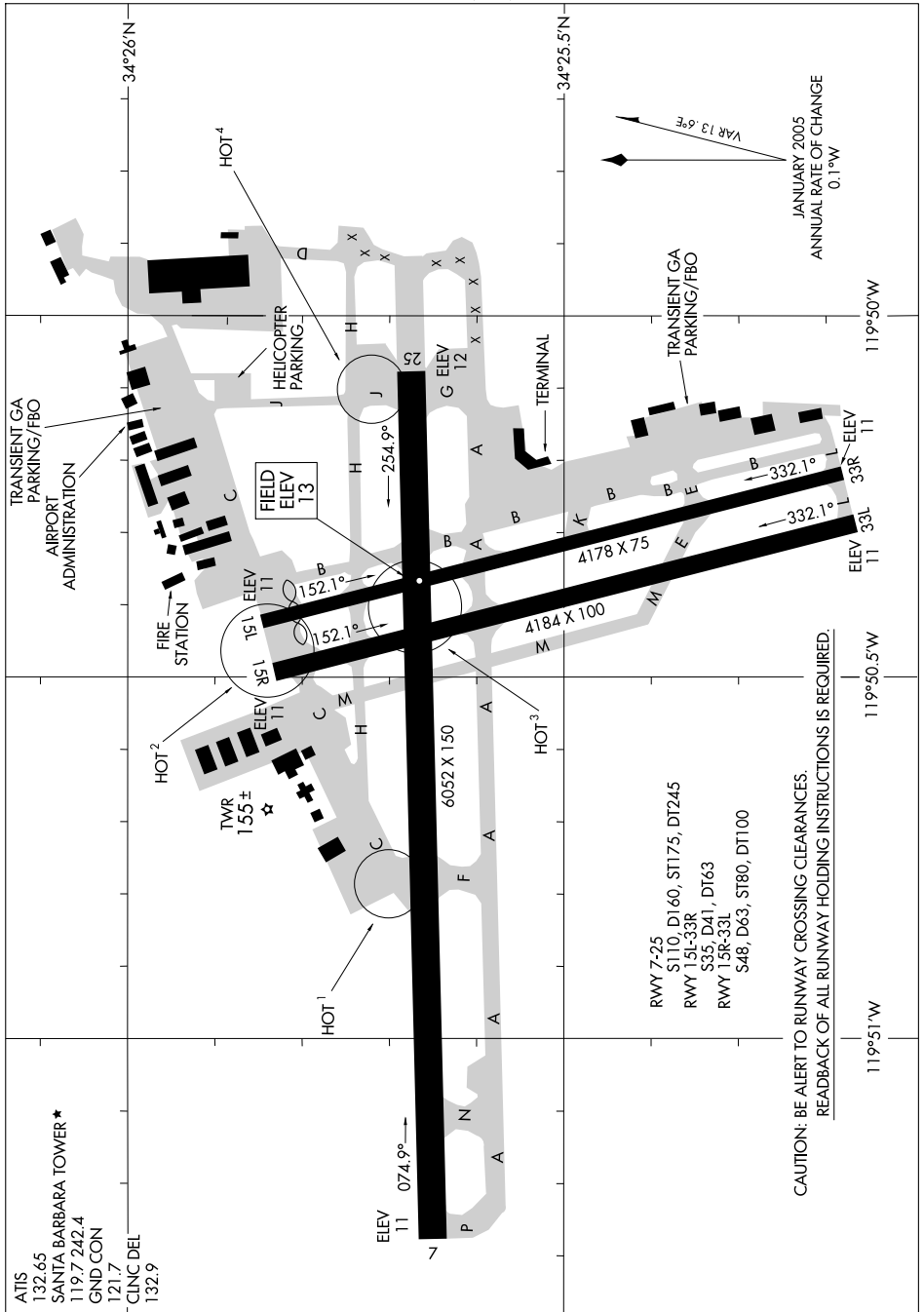
FILLMORE TRANSITION (FIM.TANDY3): From over FIM VORTAC via FIM R-148 to SADDE INT. Thence....

....From over SADDE INT via FIM R-148 to PAROL INT. From over PAROL INT via SXC R-310 to SXC VORTAC. Then from over SXC VORTAC via SXC R-037 and SLI R-171 to SLI VORTAC.

AIRPORT DIAGRAM

AL-378 (FAA)

SANTA BARBARA AERODROME (SBA)
SANTA BARBARA, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS 132.65

CLNC DEL

132.9

GND CON

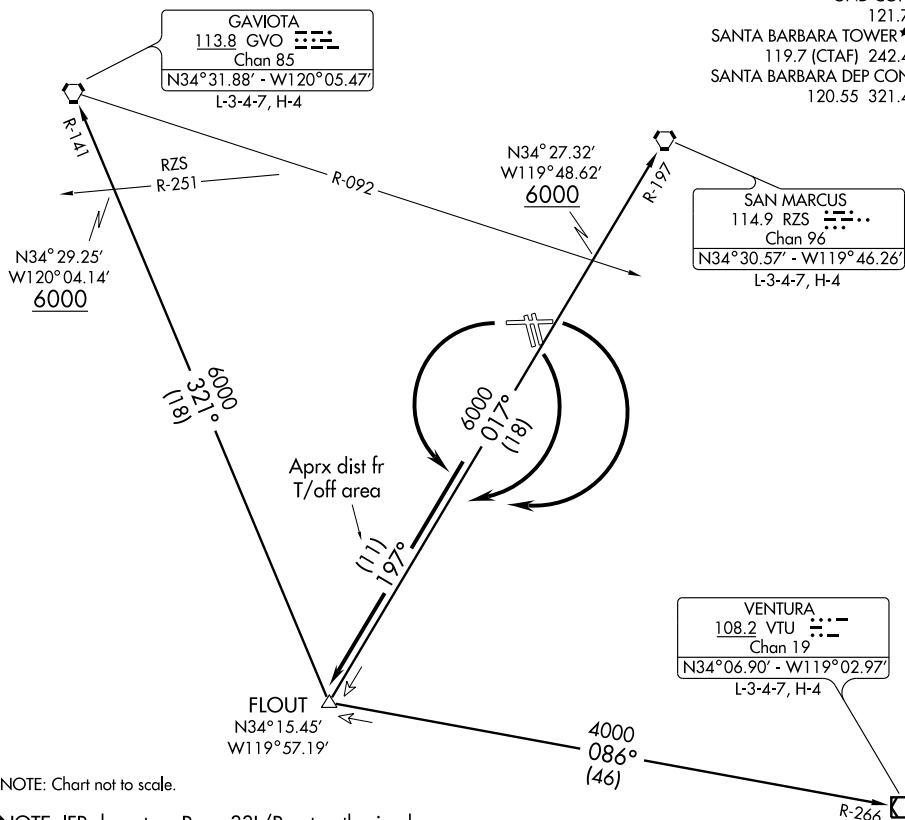
121.7

SANTA BARBARA TOWER*

119.7 (CTAF) 242.4

SANTA BARBARA DEP CON

120.55 321.4



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 and 15L/R: Turn right, thence. . .

TAKE-OFF RUNWAY 25: Turn left, thence. . .

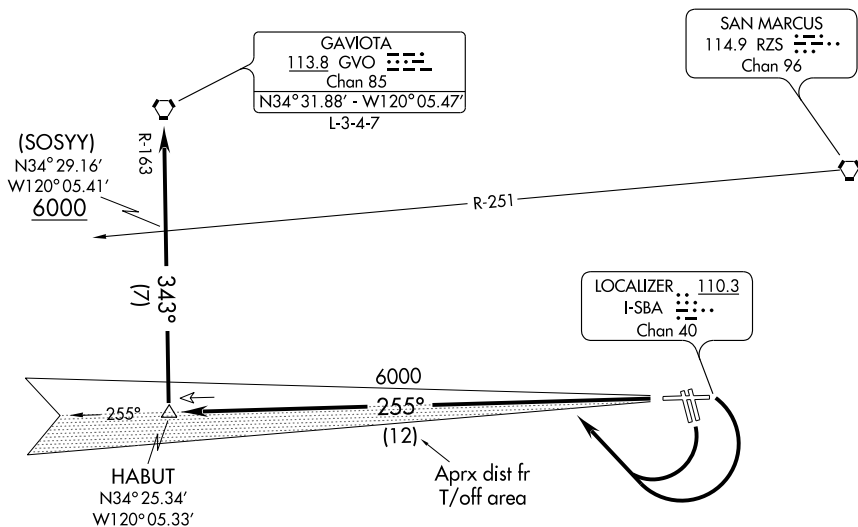
. . . intercept and proceed via RZS R-197 to FLOUT INT. Thence via (transition or assigned route.)

GAVIOTA TRANSITION (FLOUT5.GVO): From over FLOUT INT via GVO R-141 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

SAN MARCUS TRANSITION (FLOUT5.RZS): From over FLOUT INT via RZS R-197 to RZS VORTAC. Cross GVO R-092 at or above 6000'.

VENTURA TRANSITION (FLOUT5.VTU): From over FLOUT INT via VTU R-266 to VTU VOR/DME.

ATIS 132.65
 CLNC DEL
 132.9
 GND CON
 121.7
 SANTA BARBARA TOWER ★
 119.7 (CTAF) 242.4
 SANTA BARBARA DEP CON
 120.55 321.4



NOTE: IFR departure Rwys 33L/R not authorized.

NOTE: Minimum (ATC) climb of 385' per NM to 6000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 and 15L/R: Turn right, intercept I-SBA west course to HABUT INT, thence via GVO R-163 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

TAKE-OFF RUNWAY 25: Intercept I-SBA west course to HABUT INT, thence via GVO R-163 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

LOC/DME I-SBA	APP CRS	Rwy Idg	6052
110.3	075°	TDZE	13
Chan 40		Apt Elev	13

ILS or LOC RWY 7

SANTA BARBARA MUNI (SBA)

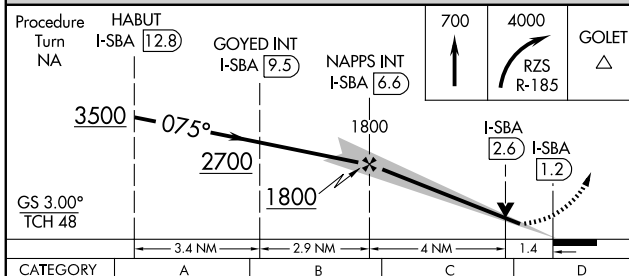
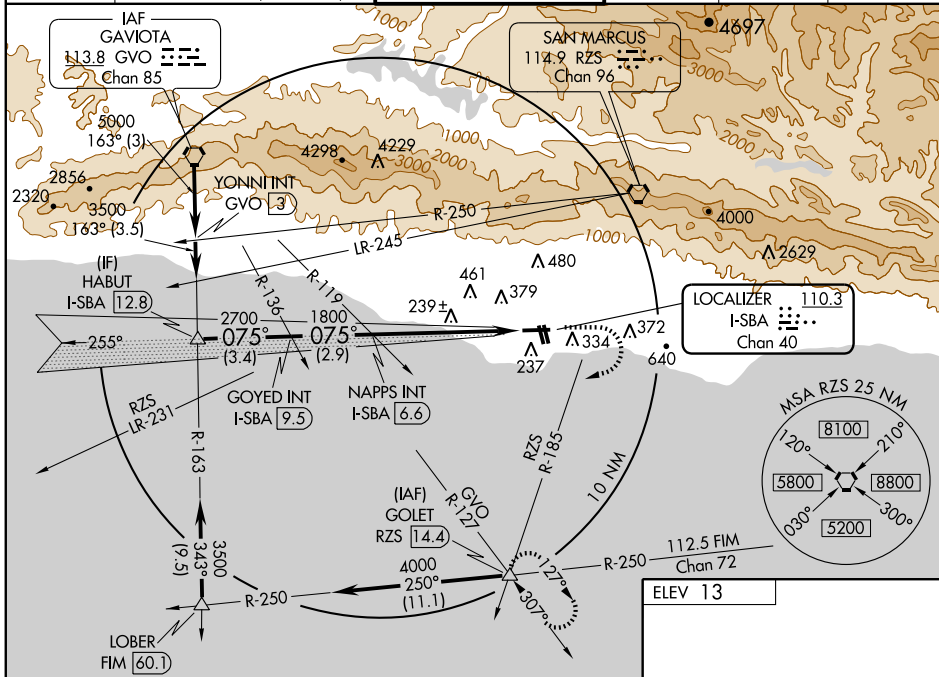
▼ When local altimeter setting not received, use Oxnard altimeter setting and increase all DAs/MDAs 100 feet, and S-LOC Cat. C visibility to RVR 5000, Cat. D visibility to RVR 6000. Increase Circling Cat. A visibility ½ mile, Cat. C visibility ½ mile.
 For inoperative MALS/R when using Oxnard altimeter setting, increase S-ILS 7 all Cats. visibility to RVR 5000.
 * RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS/R



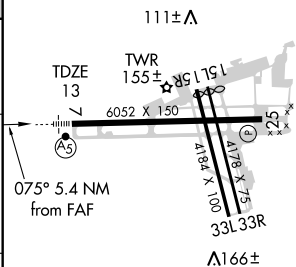
MISSED APPROACH: Climb to 700 then climbing right turn to 4000 via RZS VORTAC R-185 to GOLET INT/RZS 14.4 DME and hold, continue climb-in-hold to 4000.

ATIS 132.65	SANTA BARBARA APP CON 120.55 321.4 (151°-329°) 125.4 291.1 (330°-150°)	SANTA BARBARA TOWER★ 119.7 (CTAF) 0 242.4	GND CON 121.7	CLNC DEL 132.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 7	*213/24 200 (200-½)			
S-LOC 7	500/24 487 (500-½)	500/40 487 (500-¾)	500/50 487 (500-1)	
CIRCLING	800-1 787 (800-1)	800-1¼ 787 (800-1¼)	800-2¼ 787 (800-2¼)	1000-3 987 (1000-3)

ELEV 13



HIRL Rwy 7-25
 MIRL Rwy 15R-33L
 REIL Rwy 15R
 REIL Rwy 25

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

KWANG FIVE DEPARTURE

SL-378 (FAA)

SANTA BARBARA MUNI (SBA)
SANTA BARBARA, CALIFORNIA

ATIS 132.65

CLNC DEL
132.9GND CON
121.7SANTA BARBARA TOWER ★
119.7 (CTAF) 242.4SANTA BARBARA DEP CON
120.55 321.4FILLMORE
112.5 FM ---
Chan 72

HENER

N34°19.86'
W119°13.66'
L-3-4-7

GINNA

N34°13.38'
W118°49.92'
L-3-4-7SAN MARCUS
114.9 RZS ---
Chan 96
N34°30.57' - W119°46.26'
L-3-4-7, H-4GAVIOTA
113.8 GVO ---
Chan 85N34°24.59'
W119°38.58'
6000

6000

6000

299°
(18)

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DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climbing right turn to intercept GVO VORTAC R-099 to KWANG INT thence. . . .

TAKE-OFF RUNWAYS 15L/R and 25: Climbing left turn to intercept GVO VORTAC R-099 to KWANG INT thence. . . .

. . . .via (transition) or (assigned route).

HENER TRANSITION (KWANG5.HENER): From over KWANG INT via FIM R-250 to HENER INT.

SAN MARCUS TRANSITION (KWANG5.RZS): From over KWANG INT via RZS R-119 to RZS VORTAC. Cross GVO R-092 at or above 6000'.

GINNA TRANSITION (KWANG5.GINNA): From over KWANG INT via CMA R-271 to CMA VOR/DME then via CMA R-072 to GINNA.

TAKE-OFF OBSTACLE NOTES

Rwy 7: OL on DME antenna, road, and numerous trees beginning 350' from DER, 101' right of centerline, up to 55' AGL/74' MSL. Antennas, poles, tower, and numerous trees beginning 194' from DER, 11' left of centerline, up to 79' AGL 98' MSL.

Rwy 15L: Numerous trees beginning 1242' from DER, 119' right of centerline, up to 100' AGL/159' MSL.

Rwy 15R: Sign and numerous trees beginning 29' from DER, 94' right of centerline, up to 100' AGL/159' MSL. Tree 1325' from DER, 243' left of centerline, 19' AGL/59' MSL.

Rwy 25: Trees beginning 1999' from DER, 793' right of centerline, up to 67' AGL/86' MSL.

WAAS CH 78306 W07A	APP CRS 074°	Rwy Idg 6052 TDZE 13 Apt Elev 14
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RNAV (GPS) RWY 7
SANTA BARBARA MUNI (SBA)

MISSED APPROACH: Climb to 4000 direct CESRA and right turn via 165° track to IYOBE and right turn via 251° track to GOLET and hold, continue climb-in-hold to 4000.

MALSR

A5

DME/DME RNP -0.3 NA. Inoperative table does not apply to LNAV/VNAV.

For inoperative MALSR when using Oxnard altimeter setting, increase LPV all Cats. visibility to $1\frac{1}{2}$, and LNAV Cat. C to $1\frac{3}{4}$, Cat. D to 2.

For inoperative MALSR, increase LPV all Cats. visibility to RVR 6000.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F)

or above 49°C (120°F). Baro-VNAV NA when using Oxnard altimeter setting.

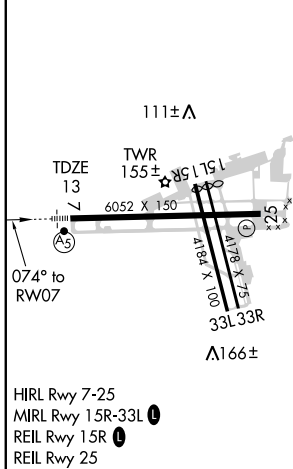
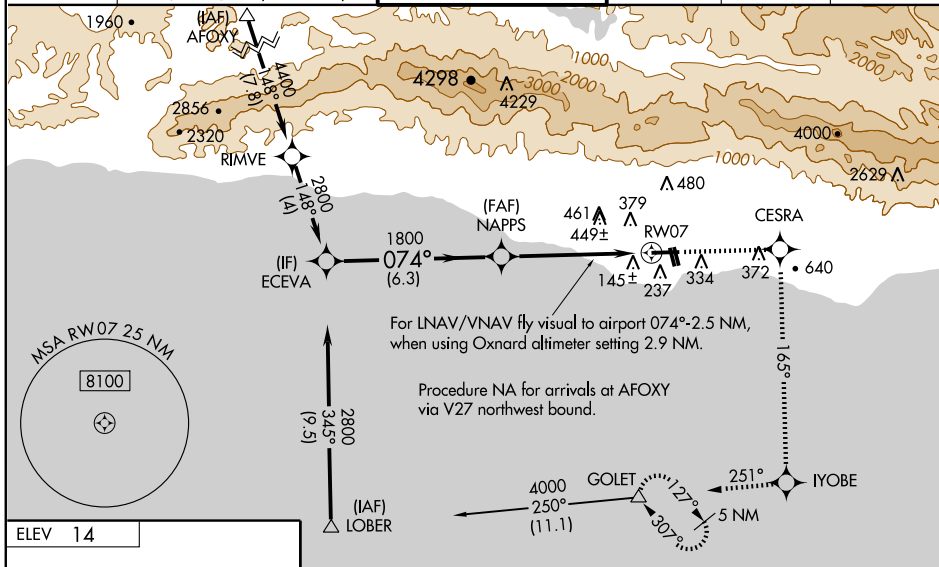
When local altimeter setting not received, use Oxnard altimeter setting and

increase all DAs/MDAs 100 feet, and increase, LNAV/VNAV visibility Cat. C

and D ¼ mile, LNAV Cat. C to RVR 6000, Cat. D ¼ mile, Circling Cat. A visibility

¼ mile, Cat. C visibility ½ mile. VDP NA when using Oxnard altimeter setting.

ATIS 132.65	SANTA BARBARA APP CON 120.55 321.4 (151°-329°) 125.4 291.1 (330°-150°)	SANTA BARBARA TOWER* 119.7 (CTAF) 0 242.4	GND CON 121.7	CLNC DEL 132.9	UNICOM 122.95
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Procedure Turn NA

ECEVA

2800

074°

1800

NAPPs

*LNAV only

*1.6 NM to RW07

RW07

For LNAV/VNAV fly visual to airport, 074° -2.5 NM, when using Oxnard altimeter setting 2.9 NM.

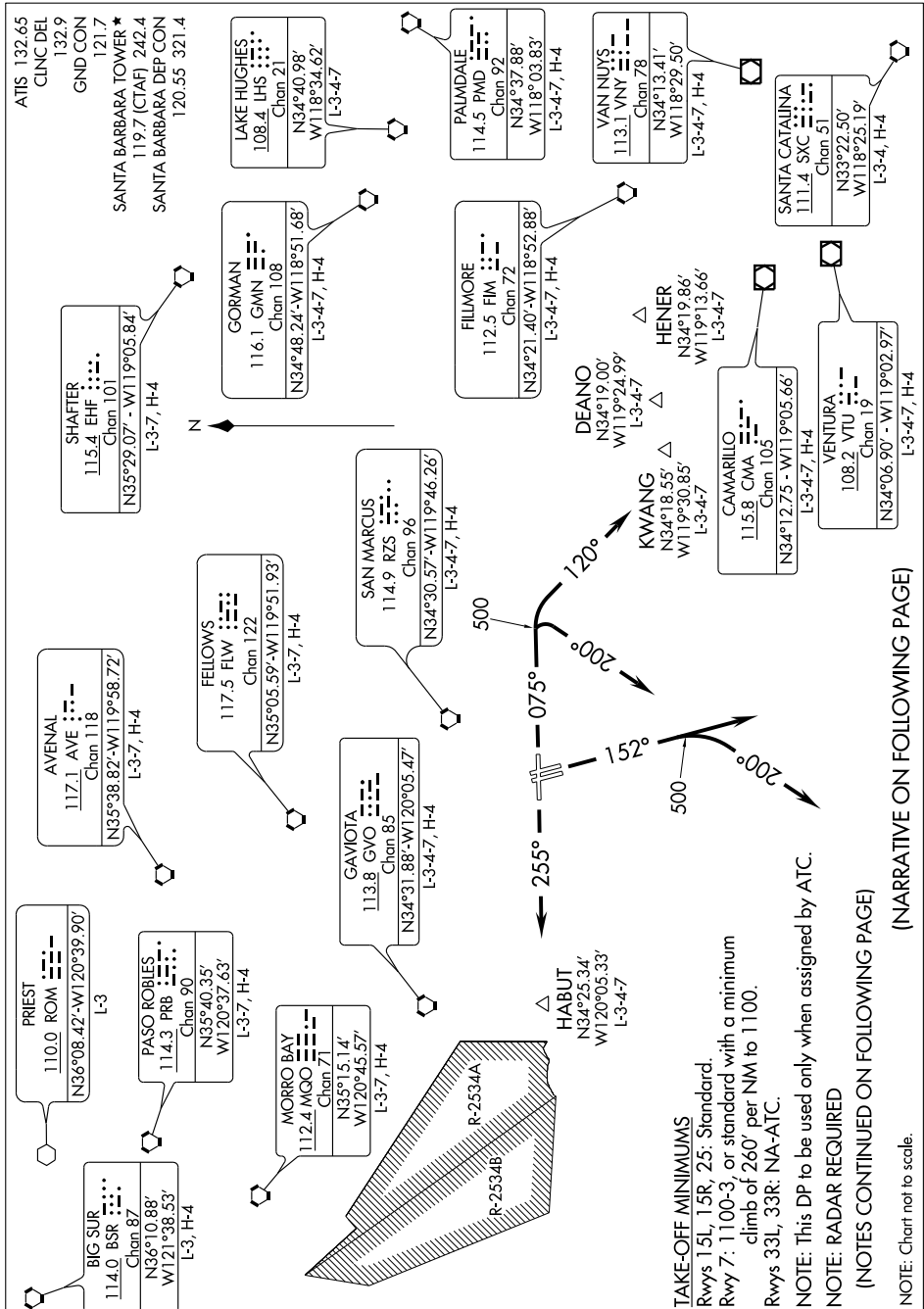
6.3 NM

3.8 NM

1.6 NM

CATEGORY	A	B	C	D
LPV DA	380/40 367 (400-¾)			
LNAV/VNAV DA	866-2	853 (900-2)	866-2½ 853 (900-2½)	866-2¾ 853 (900-2¾)
LNAV MDA	560/24	547 (600-½)	560/50 547 (600-1)	560/60 547 (600-1½)
CIRCLING	800-1 786 (800-1)	800-1¼ 786 (800-1¼)	800-2¼ 786 (800-2¼)	1000-3 986 (1000-3)

SANTA BARBARA TWO DEPARTURE



SANTA BARBARA TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

SOUTH OR EAST ROUTE OF FLIGHT:

TAKE-OFF RUNWAY 7: Climb heading 075° to 500, then climbing right turn via heading 120°. Thence....

TAKE-OFF RUNWAYS 15L/15R: Climb heading 152°. Thence....

TAKE-OFF RUNWAY 25: Climb heading 255°. Thence....

....via radar vectors, maintain 3000. Expect further clearance to filed altitude 5 minutes after departure.

NORTH OR WEST ROUTE OF FLIGHT:

TAKE-OFF RUNWAY 7: Climb heading 075° to 500, then climbing right turn via heading 200°. Thence....

TAKE-OFF RUNWAYS 15L/15R: Climb heading 152° to 500, then climbing right turn via heading 200°. Thence....

TAKE-OFF RUNWAY 25: Climb heading 255°. Thence....

....via radar vectors, maintain 3000. Expect further clearance to filed altitude 5 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 7: OL on lighted windsock, buildings, and multiple trees beginning 207' from DER, 244' left of centerline, up to 20' AGL/98' MSL.
Light poles and multiple trees beginning 938' from DER, 587' right of centerline, up to 20' AGL/74' MSL.

Rwy 15L: Multiple trees beginning 1289' from DER, 115' right of centerline, up to 20' AGL/65' MSL.

Rwy 15R: Trees 1325' from DER, 246' left of centerline, 20' AGL/59' MSL.
Trees 1287' from DER, 352' right of centerline, 20' AGL/65' MSL.

Rwy 25: Multiple trees beginning 118' from DER, 272' left of centerline, up to 20' AGL/127' MSL.
Multiple trees beginning 1354' from DER, 791' right of centerline, up to 40' AGL/105' MSL.

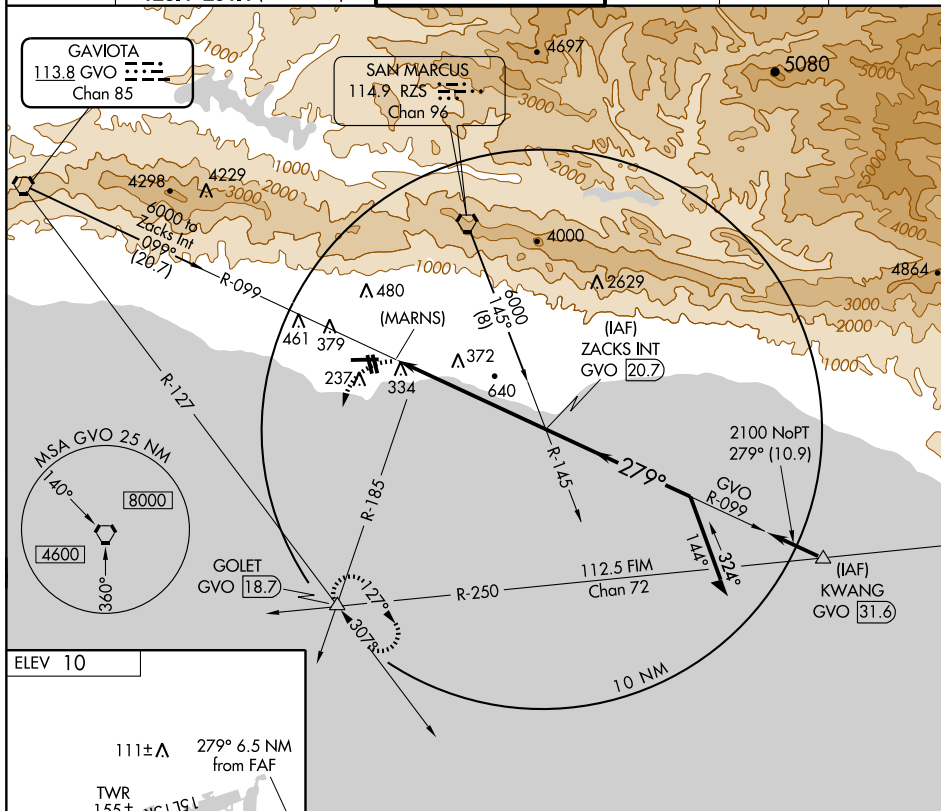
VORTAC GVO 113.8 Chan 85	APP CRS 279°	Rwy Idg 6052 TDZE 10 Apt Elev 10
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VOR or GPS RWY 25

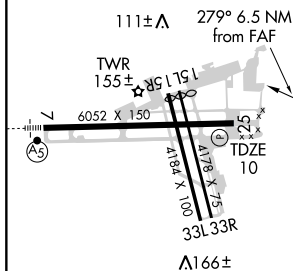


MISSED APPROACH: Climbing left turn to 4000 via heading 205° and GVO R-127 to GOLET Int and hold.

ATIS 132.65	SANTA BARBARA APP CON 120.55 321.4 (151°-329°) 125.4 291.1 (330°-150°)	SANTA BARBARA TOWER★ 119.7 (CTAF) 0 242.4	GND CON 121.7	CLNC DEL 132.9	UNICOM 122.95
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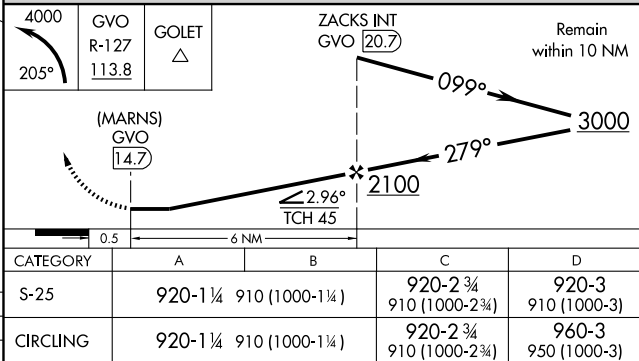
ELEV 10



HIRL Rwy 7-25
MIRL Rwy 15R-33L **L**
REIL Rwy 15R **L**
REIL Rwy 25

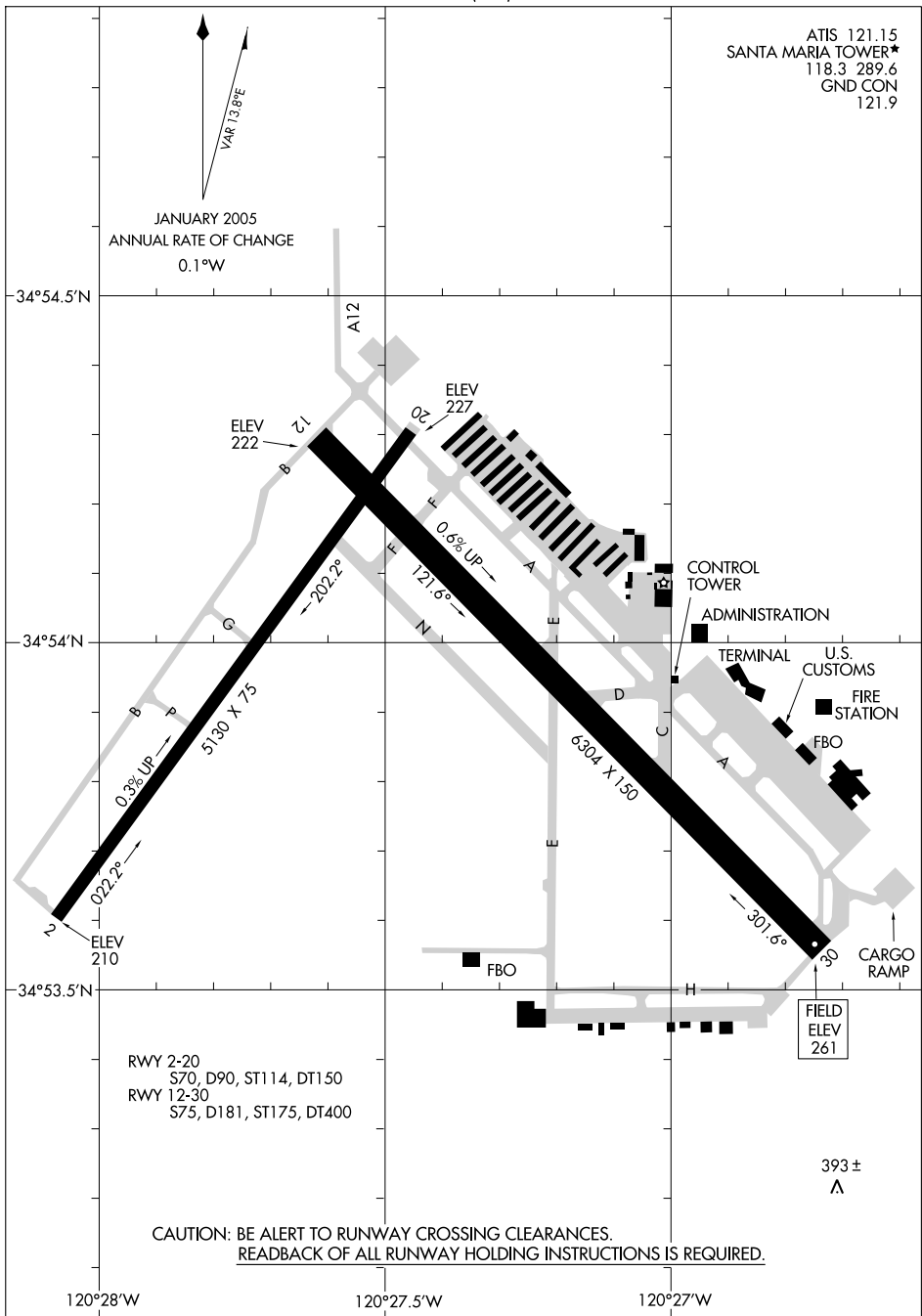
FAF to MAP 6 NM

Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00



AIRPORT DIAGRAM

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)
AL-379 (FAA) SANTA MARIA, CALIFORNIA

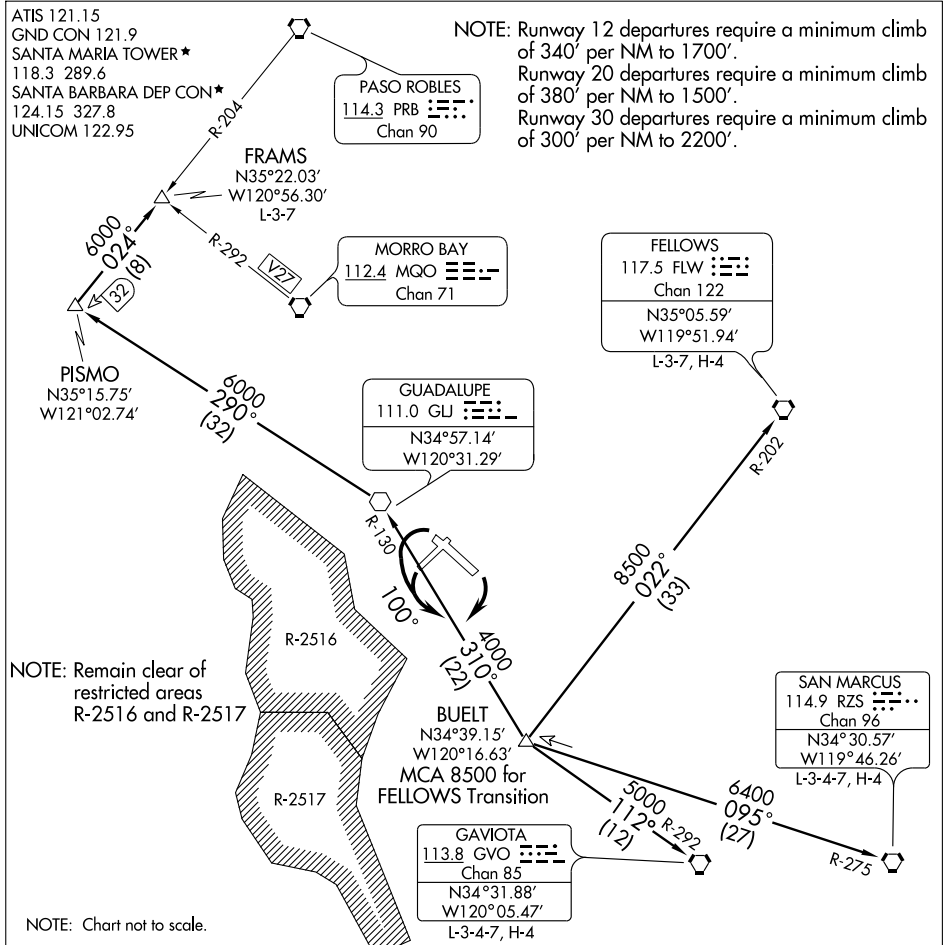


SW-3, 14 JAN 2010 to 11 FEB 2010

BUFLT ONE DEPARTURE

SL-379 (FAA)

SANTA MARIA, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept and proceed via GLJ R-130 to BUFLT INT, thence via (assigned route) or (transition).

TAKE-OFF RUNWAYS 20 and 30: Climb left turn via heading 100° to intercept and proceed via GLJ R-130 to BUFLT INT, thence via (assigned route) or (transition).

FELLOWS TRANSITION (BUFLT1.FLW): From over BUFLT INT via FLW R-202 to FLW VORTAC.

FRAMS TRANSITION (BUFLT1.FRAMS): From over BUFLT INT via GLJ R-130 to GLJ VOR, thence via GLJ R-290 to PISMO INT, thence via PRB R-204 to FRAMS INT.

GAVIOTA TRANSITION (BUFLT1.GVO): From over BUFLT INT via GVO R-292 to GVO VORTAC.

SAN MARCUS TRANSITION (BUFLT1.RZS): From over BUFLT INT via RZS R-275 to RZS VORTAC.

LOC/DME I-SMX 108.9 Chgn 26	APP CRS 120°	Rwy Idg 6304 TDZE 240 Apt Elev 261
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ILS or LOC RWY 12
SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

T * RVR 1800 authorized with the use of FD or AP or
A HUD to DA.

MALSR

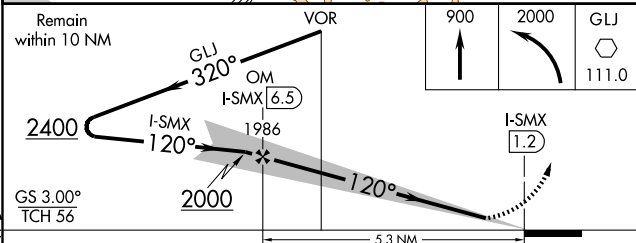
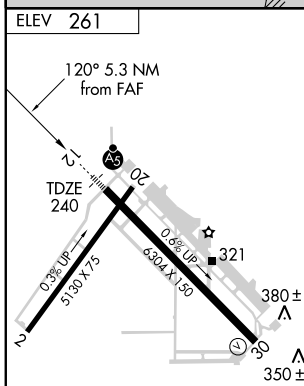
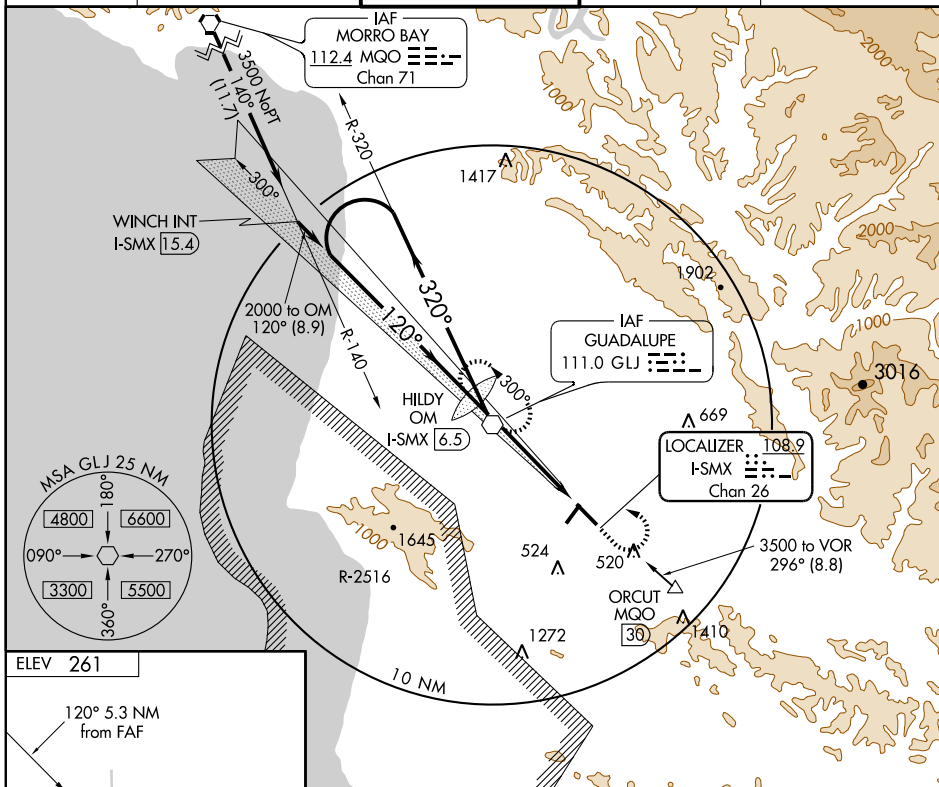
MISSED APPROACH: Climb to 900, then climbing left turn to 2000 direct GLJ VOR and hold.

ATIS
121-15

SANTA BARBARA APP CON ★
124.15 327.8

SANTA MARIA TOWER★
118.3 (CTAF) 289.6

GND CON
121.9

UNICOM
122.95

HIRL Rwy 12-30						CATEGORY	A	B	C	D
						S-ILS 12	*440/24			
FAF to MAP 5.3 NM						S-LOC 12	680/24	440 (500-½)	680/40 440 (500-¾)	680/50 440 (500-1)
Knots	60	90	120	150	180	CIRCLING	820-1	840-1	860-1½	1320-3
Min:Sec	5:18	3:32	2:39	2:07	1:46		559 (600-1)	579 (600-1)	599 (600-½)	1059 (1100-3)

LOC/DME	I-SMX	APP CRS	Rwy Idg	N/A
108.9		300°	TDZE	N/A
Chan 26			Apt Elev	261

LOC/DME BC-A

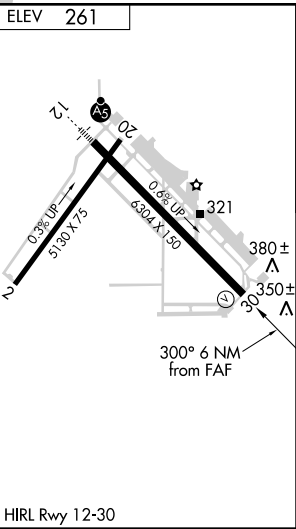
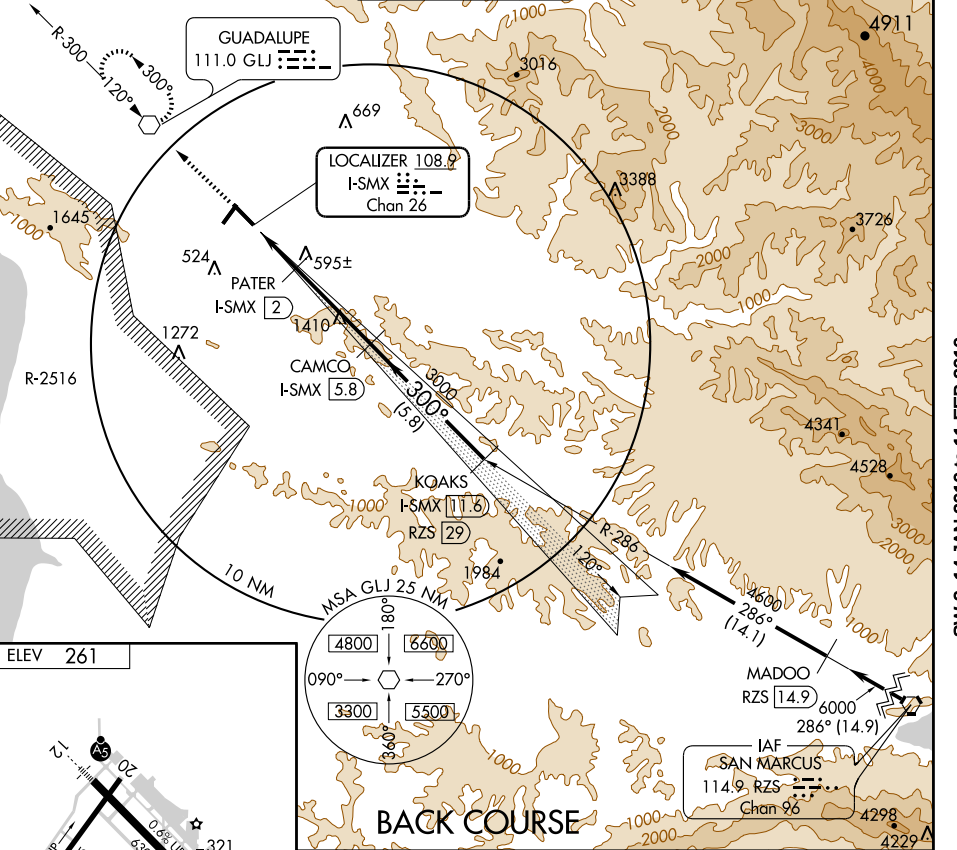
SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

▼

▲

MISSED APPROACH: Climb to 2000 direct GLJ VOR and hold.

ATIS 121.15	SANTA BARBARA APP CON★ 124.15 327.8	SANTA MARIA TOWER★ 118.3(CTAF) 289.6	GND CON 121.9	UNICOM 122.95
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2000

GLJ
111.0

Use I-SMX DME when on LOC course.

PATER
I-SMX 2

CAMCO
I-SMX 5.8

KOAKS
I-SMX 11.6 / RZS 29

1720

3000

4600

0.7

1.5

3.8 NM

5.8 NM

Disregard glide slope indications

Procedure Turn NA

CATEGORY	A	B	C	D
CIRCLING	1100-1 839 (900-1)	1100-1¼ 839 (900-1¼)	1100-2½ 839 (900-2½)	1320-3 1059 (1100-3)

SW-3, 14 JAN 2010 to 11 FEB 2010

RNAV (GPS) RWY 12

APP CRS
121°

Rwy Idg
TDZE
Apt Elev

6304
240
261

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climbing left turn to 4000 direct WINCH WP and hold.

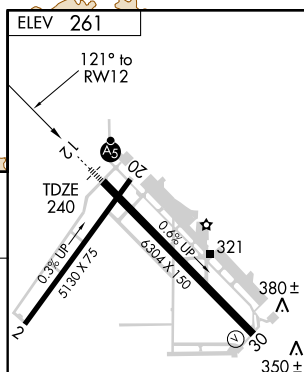
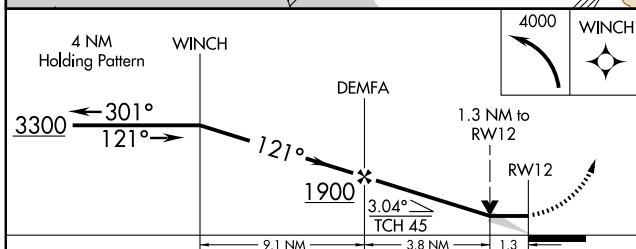
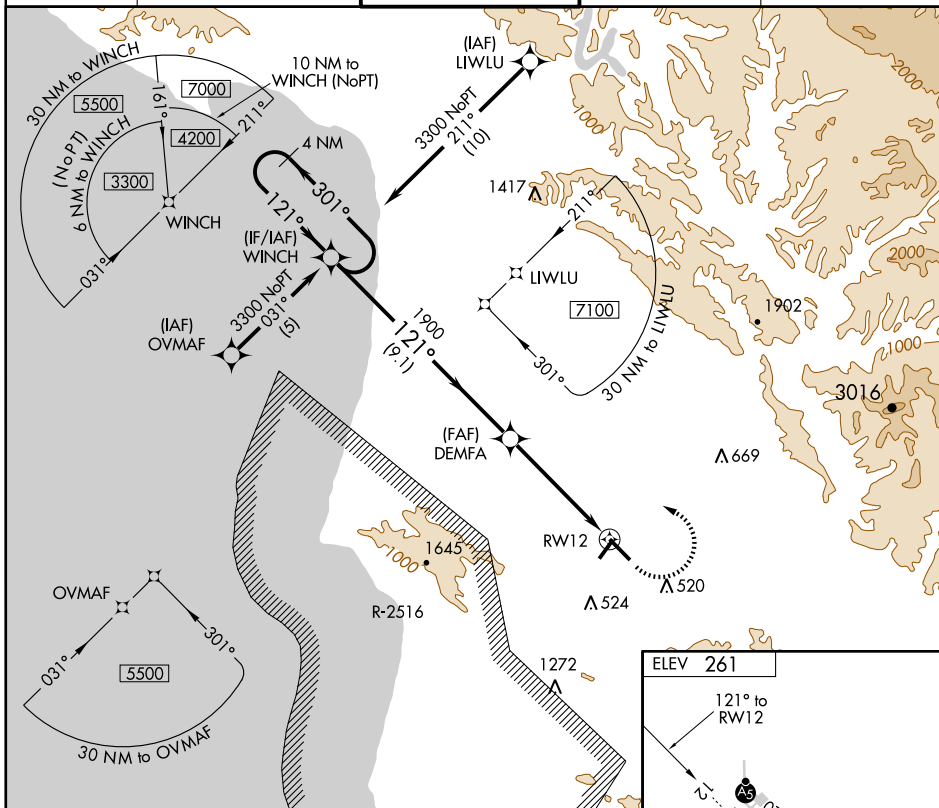
ATIS
121.15

SANTA BARBARA APP CON ★
124.15 327.8

SANTA MARIA TOWER ★
118.3 (CTAF) 289.6

GND CON
121.9

UNICOM
122.95



CATEGORY	A	B	C	D
LNAV MDA	680/24 440 (500-½)	680/40 440 (500-¾)	680/50 440 (500-1)	680/50 440 (500-1)
CIRCLING	820-1 559 (600-1)	860-1 599 (600-1¾)	1320-3 1059 (1100-3)	1320-3 1059 (1100-3)

HIRL Rwy 12-30

APP CRS	Rwy Idg	6304
316°	TDZE	261
	Apt Elev	261

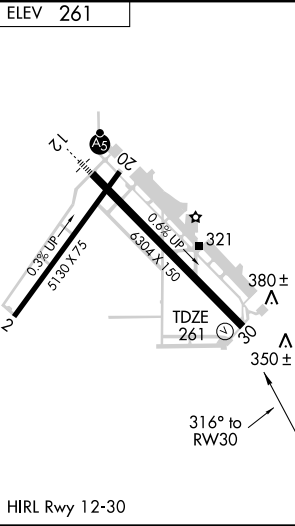
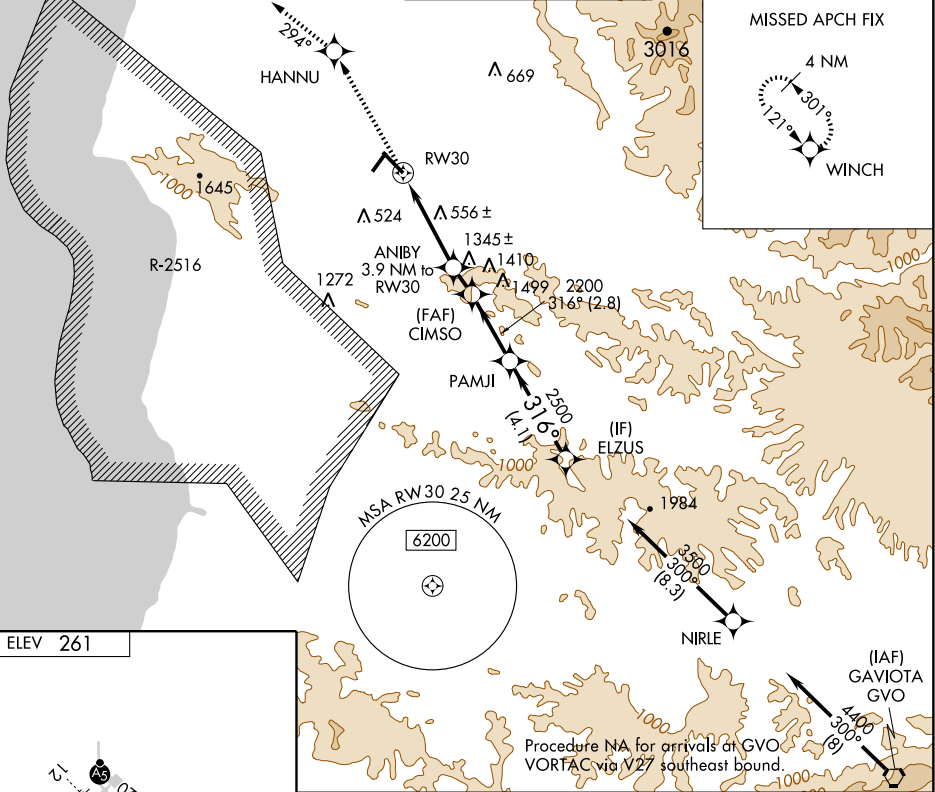
RNAV (GPS) RWY 30

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

▼ DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
▲ When local altimeter setting not received, use Vandenburg altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 4000 direct HANNU and via track 294° to WINCH and hold.

ATIS	SANTA BARBARA APP CON *	SANTA MARIA TOWER *	GND CON	UNICOM
121.15	124.15 327.8	118.3 (CTAF) 289.6	121.9	122.95



	4000	HANNU	track 294°	WINCH					
					CIMS0	PAMJI	ELZUS		
					ANIBY 3.9 NM to RW30	316°	3500		
					1780	2200	2500		
					3.9 NM	1.1 NM	2.8 NM	4.1 NM	
CATEGORY	A	B	C	D					
LNAV MDA	1600-1¼ 1339 (1400-1¼)	1600-1½ 1339 (1400-1½)	1600-3 1339 (1400-3)	NA					
CIRCLING	1600-1¼ 1339 (1400-1¼)	1600-1½ 1339 (1400-1½)	1600-3 1339 (1400-3)	NA					

▼

▲

MALSR

MISSED APPROACH: Climbing left turn to 2000
direct GLJ VOR and hold.

ATIS 121.15	SANTA BARBARA APP CON* 124.15 327.8	SANTA MARIA TOWER★ 118.3 (CTAF) 289.6	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D	HIRL Rwy 12-30					
S-12	680/24	440 (500-½)	680/40 440 (500-¾)	680/50 440 (500-1)	FAF to MAP 4.1 NM					
CIRCLING	820-1	559 (600-1)	860-1 ¾ 599 (600-1 ¾)	1320-3 1059 (1100-3)	Knots	60	90	120	150	180
					Min:Sec	4:06	2:44	2:03	1:38	1:22

SW-3. 14 JAN 2010 to 11 FEB 2010

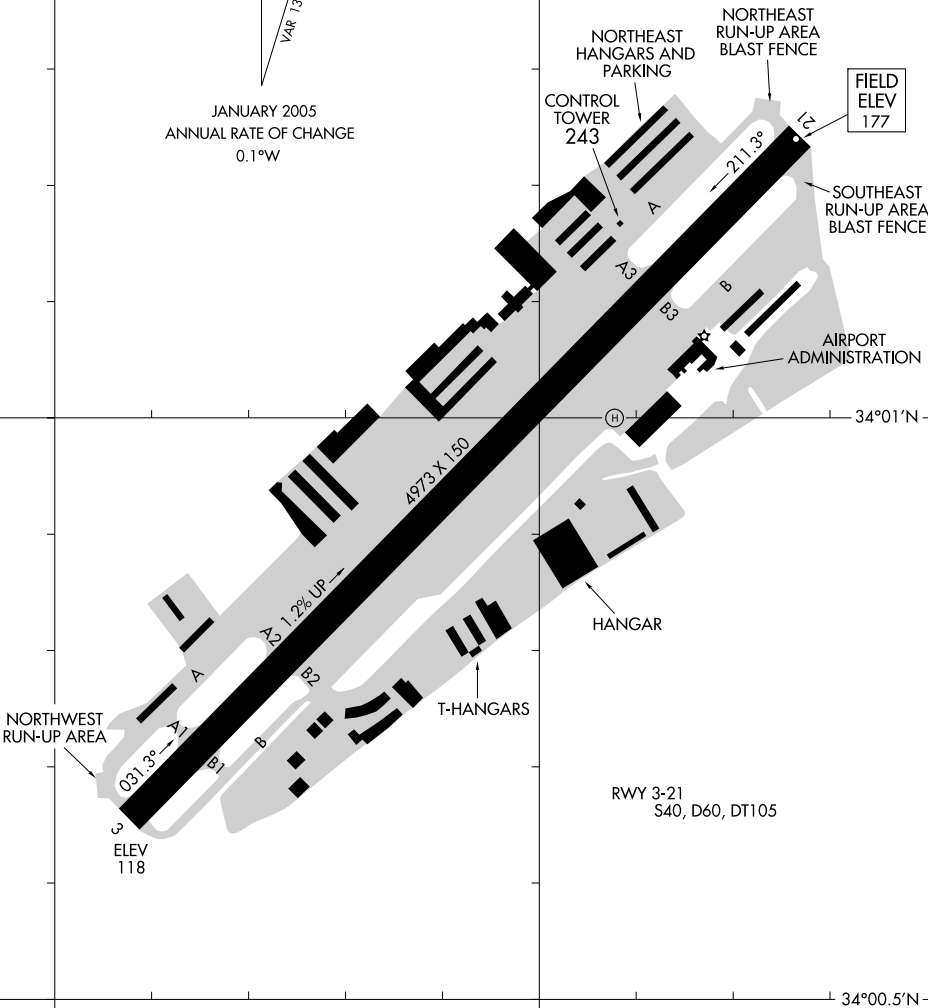
AIRPORT DIAGRAM

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA

ATIS 119.15
SANTA MONICA TOWER ★
120.1 257.8
GND CON
121.9

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W



NORTHWEST
RUN-UP AREA

ELEV
118

NORTHEAST
HANGARS AND
PARKING
CONTROL
TOWER
243

NORTHEAST
RUN-UP AREA
BLAST FENCE

FIELD
ELEV
177

SOUTHEAST
RUN-UP AREA
BLAST FENCE

AIRPORT
ADMINISTRATION

HANGAR

T-HANGARS

RWY 3-21
S40, D60, DT105

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

118°27.5'W

118°27'W

SW-3, 14 JAN 2010 to 11 FEB 2010

45 → 319 Chan



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.FERN5): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.FERN5): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

FELLOWS TRANSITION (FLW.FERN5): From over FLW VORTAC via FLW R-116 and FIM R-297 to FIM VORTAC. Thence....

OHIGH TRANSITION (OHIGH.FERN5): From over OHIGH INT via FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC:

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY VOR/DME; then via VNY R-095 to DARTS INT. Expect VOR-A approach.

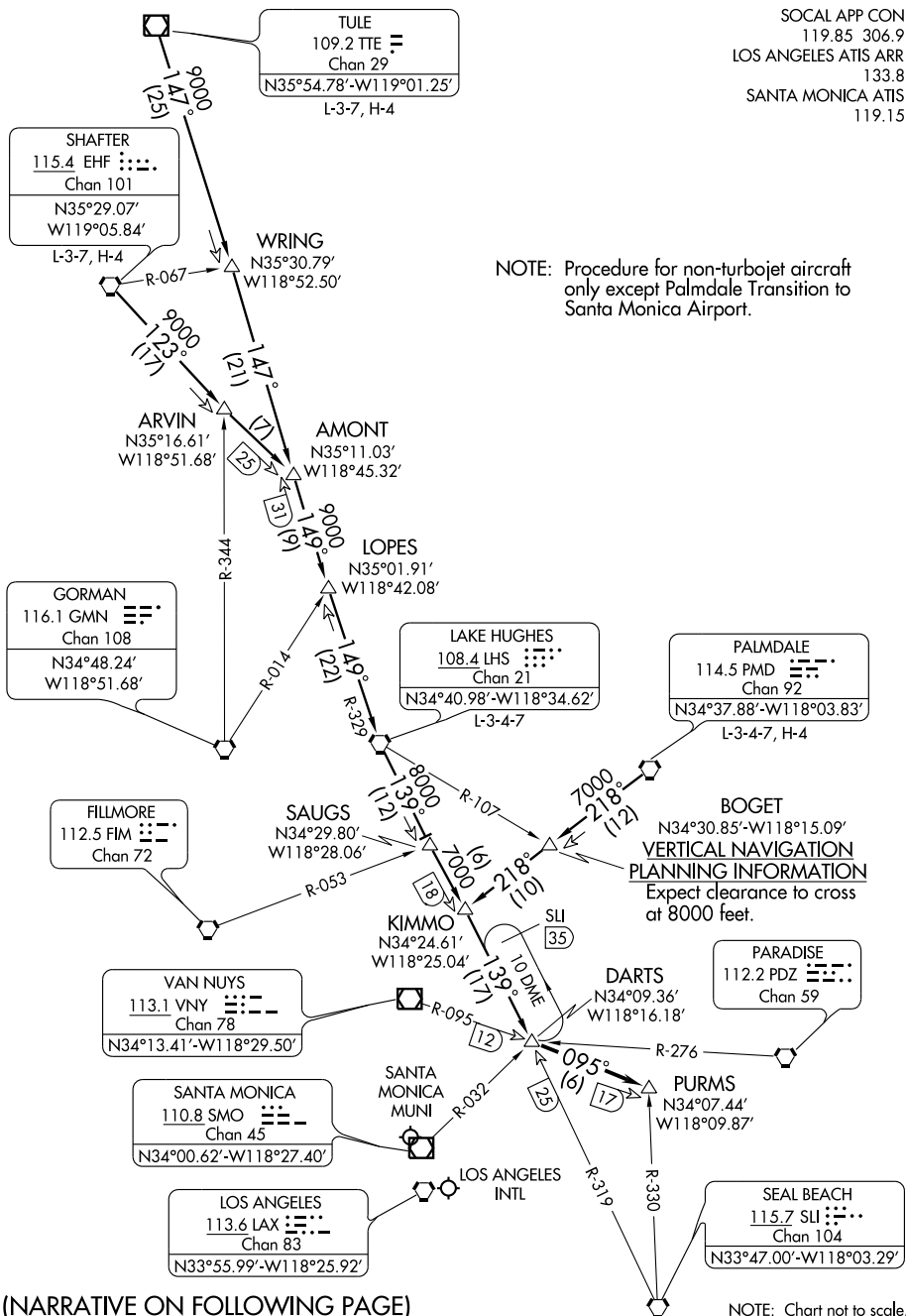
LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land RWY 34L.

KIMMO TWO ARRIVAL

ST-237 (FAA)

LOS ANGELES, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LAKE HUGHES TRANSITION (LHS.KIMMO2): From over LHS VORTAC via LHS R-139 to DARTS INT. Thence....

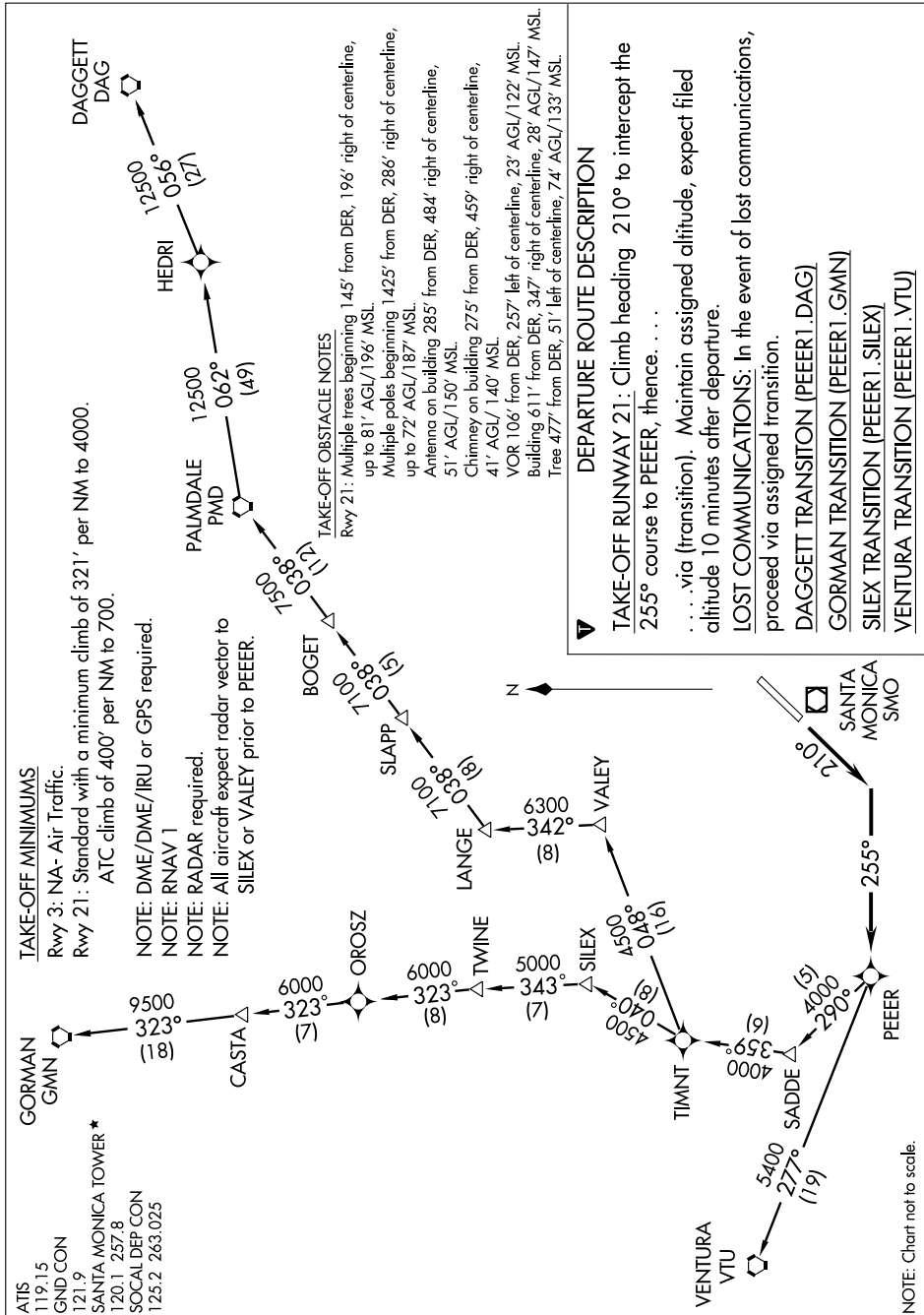
PALMDALE TRANSITION (PMD.KIMMO2): From over PMD VORTAC via PMD R-218 to KIMMO INT, then via LHS R-139 to DARTS INT. Thence....

SHAFTER TRANSITION (EHF.KIMMO2): From over EHF VORTAC via EHF R-123 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

TULE TRANSITION (TTE.KIMMO2): From over TTE VOR/DME via TTE R-147 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

....LANDING LOS ANGELES INTL: From over DARTS INT via VNY R-095 to PURMS INT. Expect radar vectors to final approach course.

....LANDING SANTA MONICA MUNI: From over DARTS INT expect radar vectors to final approach course.



ATIS
119.15
GND CON
121.9
SANTA MONICA TOWER ★
120.1 257.8
SOCAL DEP CON
125.2 263.025

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

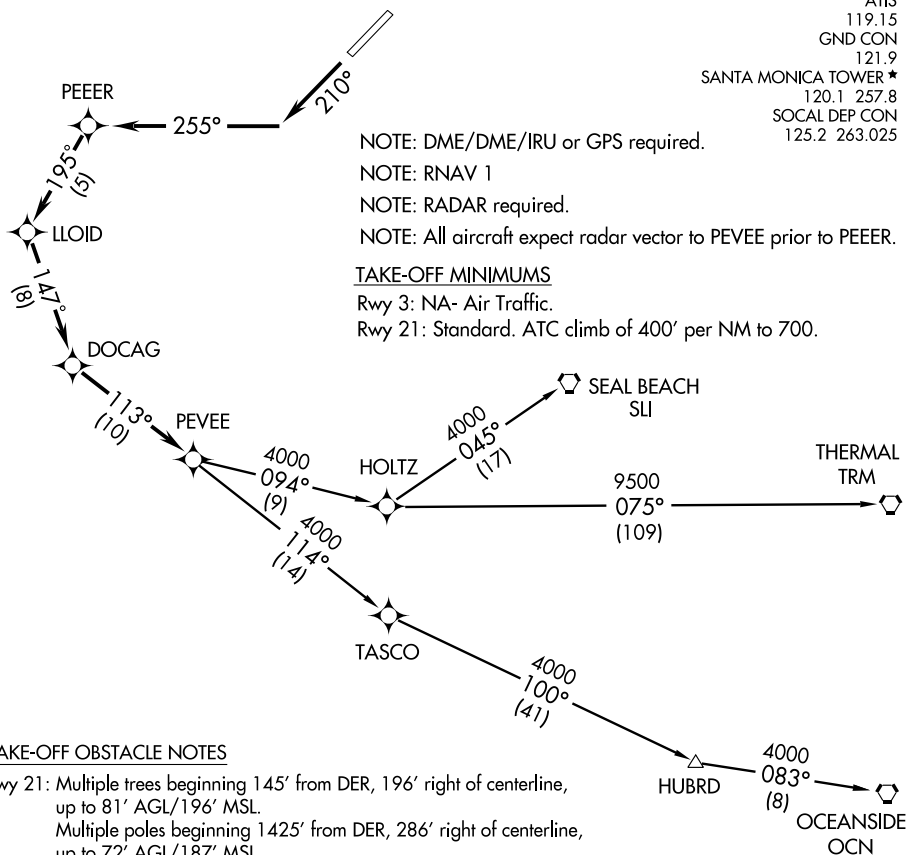
NOTE: RADAR required.

NOTE: All aircraft expect radar vector to PEVEE prior to PEEER.

TAKE-OFF MINIMUMS

Rwy 3: NA- Air Traffic.

Rwy 21: Standard. ATC climb of 400' per NM to 700.



SW-3, 14 JAN 2010 to 11 FEB 2010

TAKE-OFF OBSTACLE NOTES

Rwy 21: Multiple trees beginning 145' from DER, 196' right of centerline, up to 81' AGL/196' MSL.

Multiple poles beginning 1425' from DER, 286' right of centerline, up to 72' AGL/187' MSL.

Antenna on building 285' from DER, 484' right of centerline, 51' AGL/150' MSL.

Chimney on building 275' from DER, 459' right of centerline, 41' AGL/ 140' MSL.

VOR 106' from DER, 257' left of centerline, 23' AGL/122' MSL.

Building 611' from DER, 347' right of centerline, 28' AGL/147' MSL.

Tree 477' from DER, 51' left of centerline, 74' AGL/133' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTIONTAKE-OFF RUNWAY 21: Climb heading 210° to intercept the 255° course to PEEER, then via depicted route to PEVEE, thence. . . .

. . . via (transition). Maintain assigned altitude, expect altitude 10 minutes after departure.

LOST COMMUNICATIONS: In the event of lost communications, proceed via assigned transition.OCEANSIDE TRANSITION (PEVEE1.OCN)SEAL BEACH TRANSITION (PEVEE1.SLI)THERMAL TRANSITION (PEVEE1.TRM)

VOR/DME SMO 110.8 Chan 45	APP CRS 212°	Rwy Idg TDZE Apt Elev N/A N/A 177
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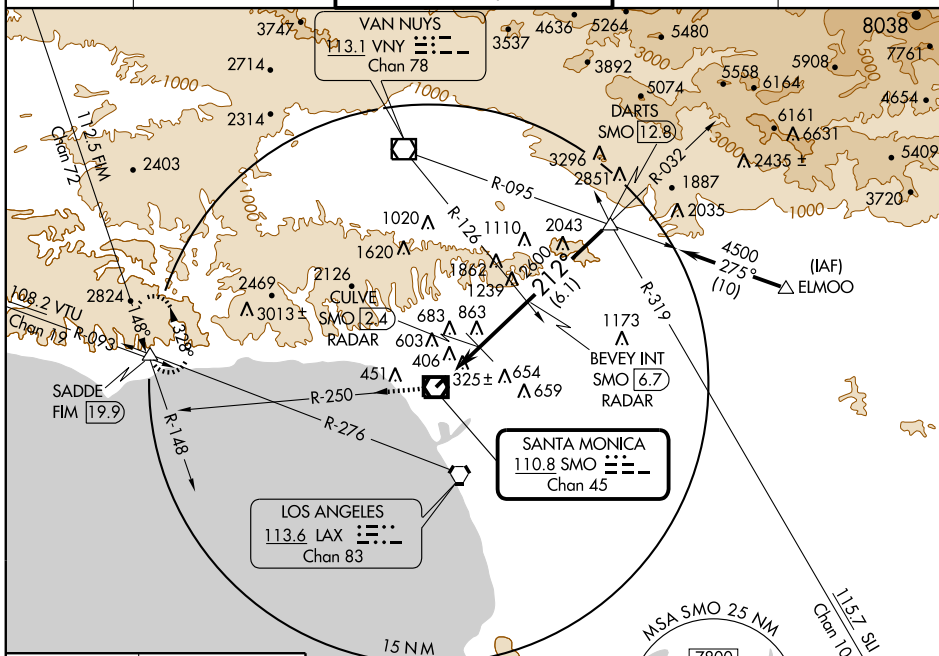
VOR or GPS-A

SANTA MONICA MUNI (SMO)

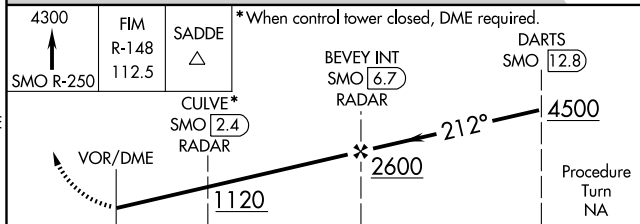
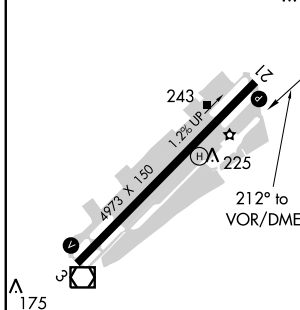
▼
▲ Circling not authorized Northwest of Rwy 3-21.

MISSED APPROACH: Climb to 4300 via SMO R-250 and FIM R-148 to SADDE Int and hold, continue climb-in-hold to 4300.

ATIS 119.15	SOCAL APP CON 128.5 235.975	SANTA MONICA TOWER* 120.1 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 177
211±A



CATEGORY	A	B	C	D
CIRCLING	1120-1¼ 943 (1000-1¼)	1120-2¾ 943 (1000-2¾)	1120-3 943 (1000-3)	1120-3 943 (1000-3)
CULVE DME/RADAR MINIMA*				
CIRCLING	680-1 503 (600-1)	680-1½ 503 (600-1½)	740-2 563 (600-2)	740-2 563 (600-2)

MIRL Rwy 3-21
REIL Rwy 3 and 21

D

JANUARY 2005
ANNUAL RATE OF CHANGE
01°W



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

FREES SIX DEPARTURE

SANTA ROSA/ CHARLES M. SCHULZ-SONOMA COUNTY (STS)
SL-696 (FAA) SANTA ROSA, CALIFORNIA

GND CON

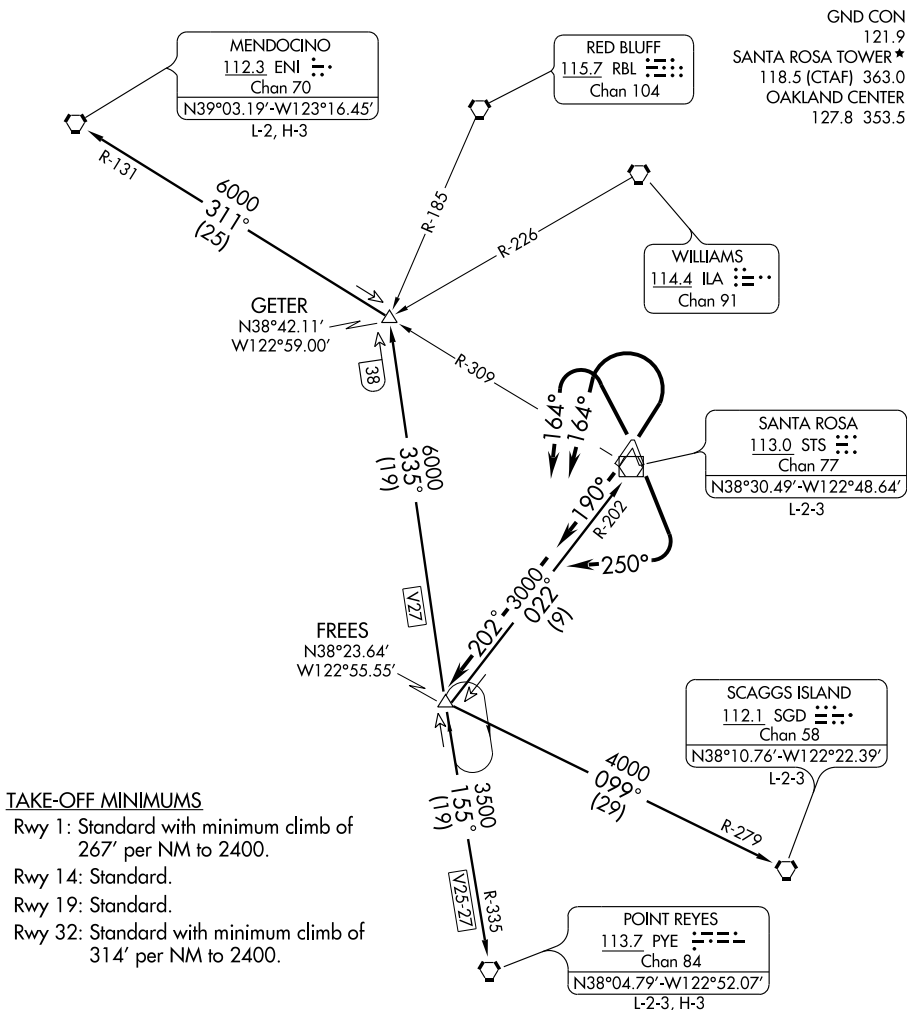
121.9

SANTA ROSA TOWER ★

118.5 (CTAF) 363.0

OAKLAND CENTER

127.8 353.5

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 267' per NM to 2400.

Rwy 14: Standard.

Rwy 19: Standard.

Rwy 32: Standard with minimum climb of 314' per NM to 2400.

TAKE-OFF OBSTACLE NOTES

Rwy 1: Tree 739' from DER, 525' left of centerline, 40' AGL/141' MSL.

Rwy 14: Multiple trees beginning 321' from DER, 421' left of centerline, up to 73' AGL/172' MSL.
Tree 2113' from DER, 721' right of centerline, 77' AGL/176' MSL.

Rwy 19: Posts 39' from DER, 259' right of centerline, 7' AGL/126' MSL.

Multiple trees beginning 1482' from DER, 461' right of centerline, up to 100' AGL/253' MSL.

Multiple trees beginning 1666' from DER, 58' left of centerline, up to 55' AGL/257' MSL.

Rwy 32: Windsock 39' from DER, 341' left of centerline, 25' AGL/133' MSL.

Multiple trees beginning 2419' from DER, 167' left of centerline, up to 50' AGL/216' MSL.

Multiple trees beginning 810' from DER, 87' right of centerline, up to 50' AGL/205' MSL.

DEPARTURE ROUTE DESCRIPTION



TAKE-OFF RUNWAYS 1 and 32: Turn left heading 164°. Thence....

TAKE-OFF RUNWAY 14: Turn right heading 250°. Thence....

TAKE-OFF RUNWAY 19: Climb on heading 190°. Thence....

....Intercept and climb via STS R-202 to FREES INT, cross FREES INT at or above MEA for route of flight, or continue climb in FREES INT holding pattern to MEA for route of flight then via (transition) or (assigned route).

MENDOCINO TRANSITION (FREES6.ENI): From over FREES INT via PYE R-335 and ENI R-131 to ENI VORTAC.

POINT REYES TRANSITION (FREES6.PYE): From over FREES INT via PYE R-335 to PYE VORTAC.

SANTA ROSA TRANSITION (FREES6.STS): From over FREES INT via STS R-202 to STS VOR/DME.

SCAGGS ISLAND TRANSITION (FREES6.SGD): From over FREES INT via SGD R-279 to SGD VORTAC.

ILS or LOC RWY 32

MISSED APPROACH: Climb to 1020 then climbing left turn to 6000 via ENI VORTAC R-131 to CABEX/ENI 18 DME and hold, continue climb-in-hold to 6000.

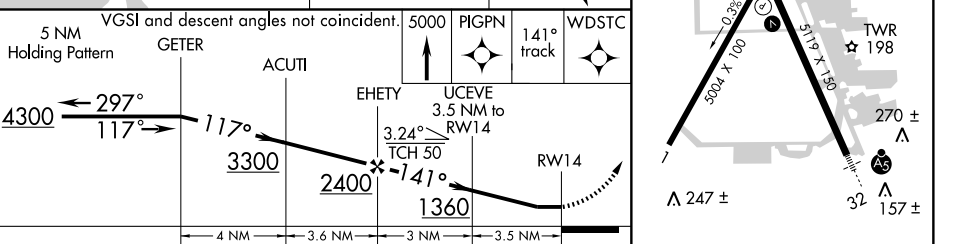
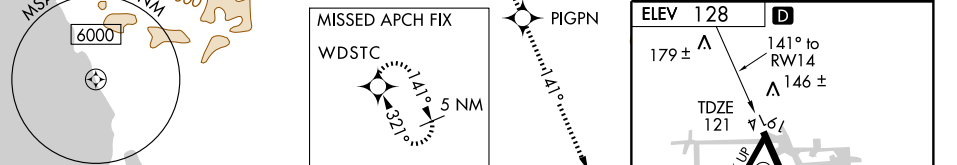
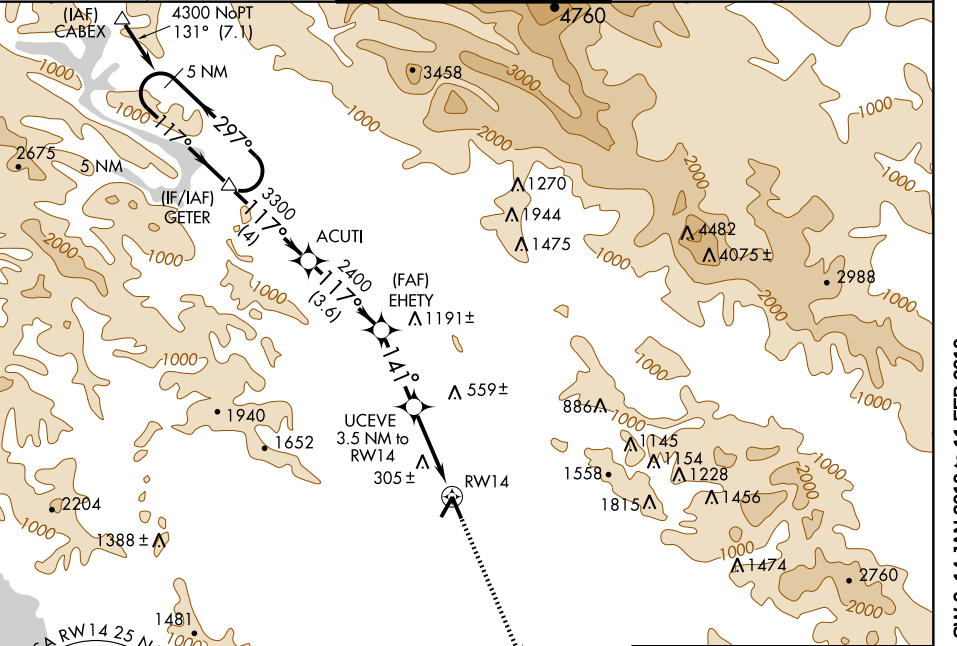
1020 ↑	6000 ENI R-131	CABEX △	LUSEE INT STS 12.2		One Minute Holding Pattern
Diagram illustrating the S-ILS 32 approach. The approach path starts at 0.8 NM, followed by 4.6 NM to MONES OM STS 5.8 (1903 ft), then 4 NM to EDOVE INT STS 9.8 (1900 ft), and finally 2.4 NM to LUSEE INT STS 12.2 (2700 ft). The final segment is a 141° turn to 321° heading, leading to a 3000 ft altitude. The approach is a GS 3.00° TCH 53.					
CATEGORY S-ILS 32	A		B	C	D
	*322/24		200 (200-½)		
S-LOC 32	540/24 418 (500-½)		540/40 418 (500-¾)		
CIRCLING	620-1 492 (500-1)	680-1 552 (600-1)	740-1¾ 612 (700-1¾)	740-2 612 (700-2)	

▼

DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5000 direct PIGPN and via 141° track to WDSTC and hold, continue climb-in-hold to 5000.

ATIS 120.55	OAKLAND CENTER 127.8 353.5	SANTA ROSA TOWER★ 118.5 (CTAF) 363.0	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	560-1 439 (500-1)	560-1½ 439 (500-1½)	560-1¼ 439 (500-1¼)	560-1½ 439 (500-1½)
CIRCLING	620-1 492 (500-1)	680-1 552 (600-1)	740-1¾ 612 (700-1¾)	740-2 612 (700-2)

REIL Rwy 14

HIRL Rwy 14-32

WAAS
CH **72611**
W32A

APP CRS
321°

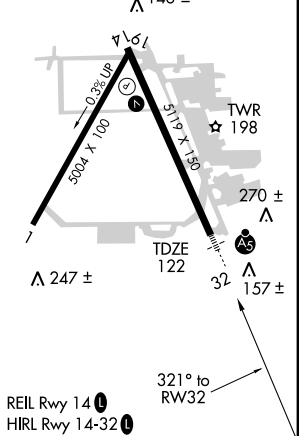
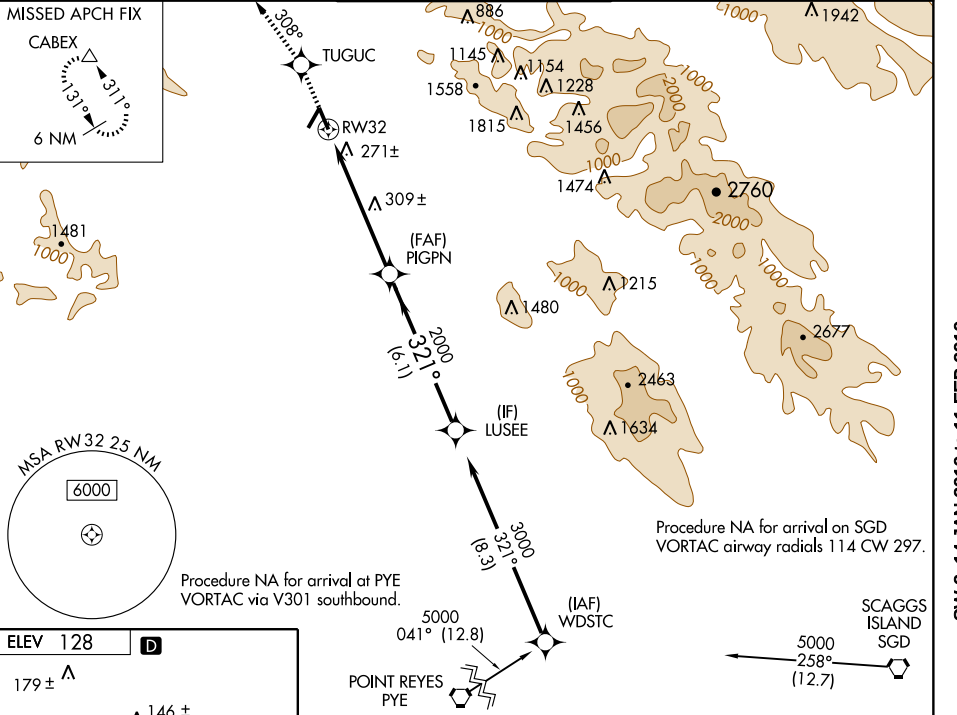
Rwy Idg
TDZE
Apt Elev
5119
122
128

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA.

MALSR

MISSED APPROACH: Climb to 6000 direct TUGUC and via 308° track to CABEX and hold, continue climb-in-hold to 6000.

ATIS 120.55	OAKLAND CENTER 127.8 353.5	SANTA ROSA TOWER★ 118.5 (CTAF) 363.0	GND CON 121.9	UNICOM 122.95
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6000	TUGUC	308° track	CABEX	LUSEE	Procedure Turn NA
*LNAV only	*1.3 NM to RW32	PIGPN	321°	3000	GS 3.00° TCH 53
1.3 4.4 NM 6.1 NM					
CATEGORY	A		B		D
LPV DA	455/40		333 (400-¾)		
LNAV/VNAV DA	556/50		434 (500-1)		
LNAV MDA	600/24	478 (500-½)	600/40 478 (500-¾)	600/50 478 (500-1)	
CIRCLING	620-1 492 (500-1)	680-1 552 (600-1)	740-1¾ 612 (700-1¾)	740-2 612 (700-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

SANTA ROSA SIX DEPARTURE

SL-696 (FAA)

SANTA ROSA, CALIFORNIA

GND CON

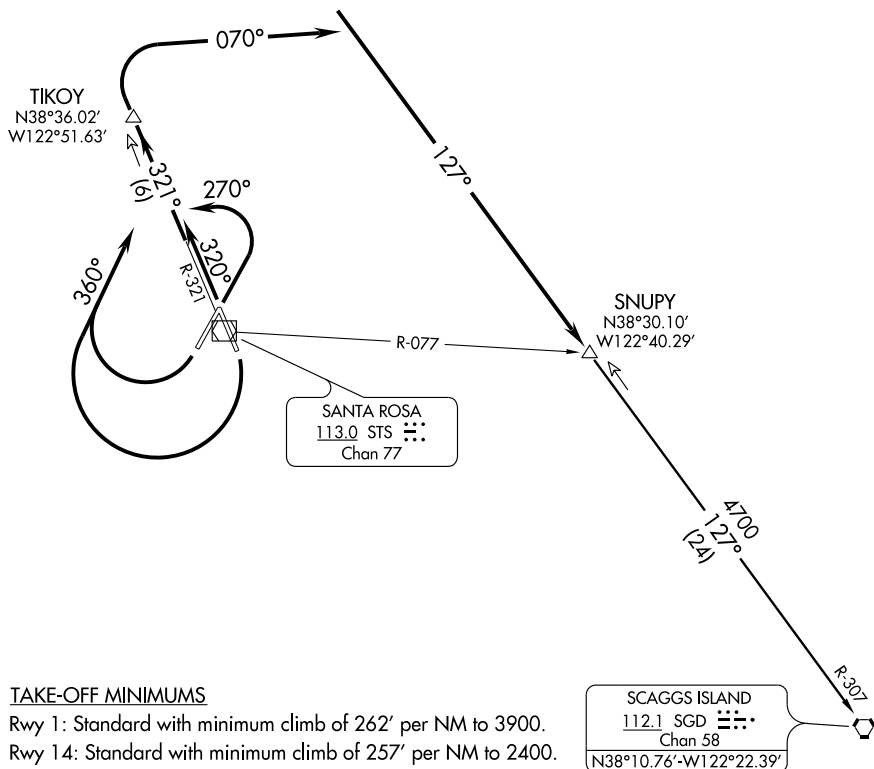
121.9

SANTA ROSA TOWER ★

118.5 (CTAF) 363.0

OAKLAND CENTER

127.8 353.5

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 262' per NM to 3900.

Rwy 14: Standard with minimum climb of 257' per NM to 2400.

Rwy 19: Standard with minimum climb of 288' per NM to 2800.

Rwy 32: Standard with minimum climb of 250' per NM to 2700.

TAKE-OFF OBSTACLE NOTES

Rwy 1: Tree 739' from DER, 525' left of centerline, 40' AGL/141' MSL.

Rwy 14: Multiple trees beginning 321' from DER, 421' left of centerline, up to 73' AGL/172' MSL.
Tree 2113' from DER, 721' right of centerline, 77' AGL/176' MSL.

Rwy 19: Posts 39' from DER, 259' right of centerline, 7' AGL/126' MSL.

Multiple trees beginning 1482' from DER, 461' right of centerline, up to 100' AGL/253' MSL.

Multiple trees beginning 1666' from DER, 58' left of centerline, up to 55' AGL/257' MSL.

Rwy 32: Windsock 39' from DER, 341' left of centerline, 25' AGL/133' MSL.

Multiple trees beginning 2419' from DER, 167' left of centerline, up to 50' AGL/216' MSL.

Multiple trees beginning 810' from DER, 87' right of centerline, up to 50' AGL/205' MSL.

NOTE: DME required.

NOTE: Chart not to scale.

(Continued on next page)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Turn left heading 270°. Thence....

TAKE-OFF RUNWAYS 14 and 19: Turn right heading 360°. Thence....

TAKE-OFF RUNWAY 32: Climb via heading 320°. Thence....

....Intercept and climb via STS R-321 to TIKOY INT/STS 6 DME, turn right via heading 070° to intercept and proceed via SGD R-307 to SNUPY INT/SGD 24 DME, then via (transition) or (assigned route).

SCAGGS ISLAND TRANSITION (STS6.SGD): From over SNUPY INT/SGD 24 DME via SGD R-307 to SGD VORTAC.

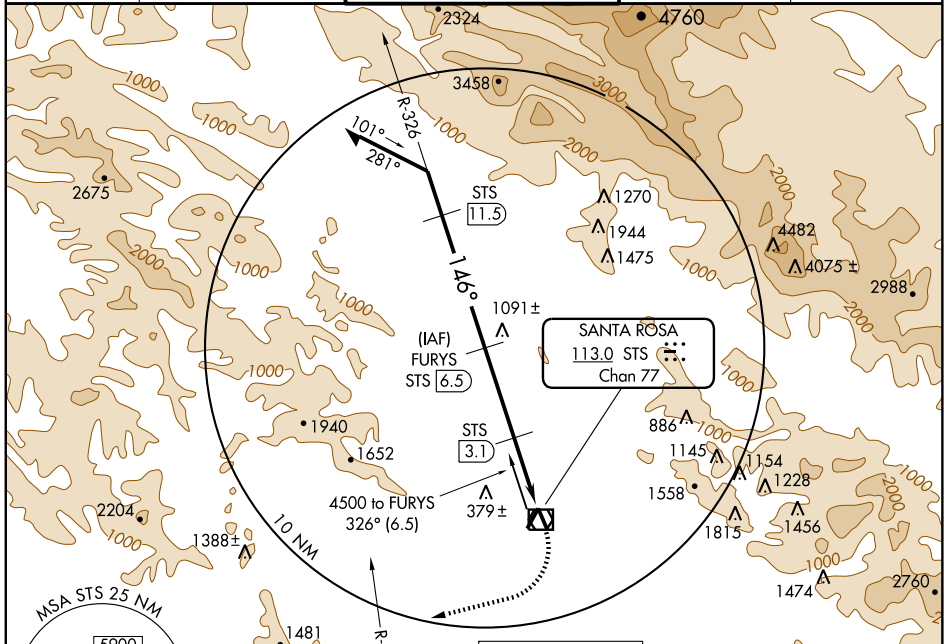
AL-696 (FAA)

VOR/DME STS <u>113.0</u> Chan 77	APP CRS 146°	Rwy Idg 5119 TDZE 121 Apt Elev 128
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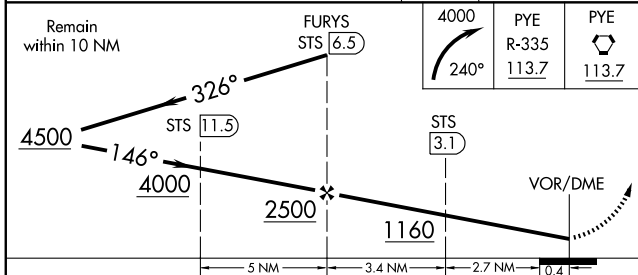
VOR/DME RWY 14
SANTA ROSA/ CHARLES M. SCHULZ-SONOMA COUNTY (STS)

T When local altimeter not received, procedure not authorized.	MISSED APPROACH: Climbing right turn to 4000 via heading 240° and PYE R-335 to PYE VORTAC.
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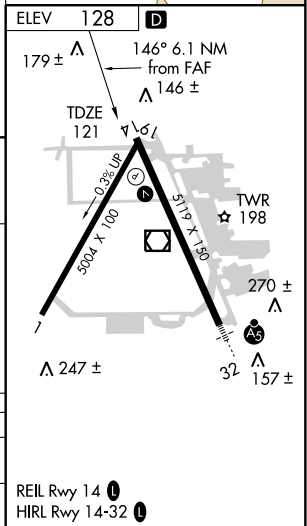
ATIS 120.55	OAKLAND CENTER 127.8 353.5	SANTA ROSA TOWER ★ 118.5 (CTAF) 0 363.0	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX	POINT REYES
113.7	113.7
Chan 84	Chan 84



CATEGORY	A	B	C	D
S-14	640-1 519 (600-1)		640-1½ 519 (600-½)	640-1¾ 519 (600-¾)
CIRCLING	640-1 512 (600-1)	680-1 552 (600-1)	740-1¾ 612 (700-¾)	740-2 612 (700-2)



SW-2. 14 JAN 2010 to 11 FEB 2010

VOR/DME STS <u>113.0</u> Chan 77	APP CRS 321°	Rwy Idg 5119 TDZE 119 Apt Elev 125
--	------------------------	---

SANTA ROSA/CHARLES M. SCHULZ-SONOMA COUNTY (STS)

VOR RWY 32

T	S-32 Cat D DME minimums visibility increased to
A NA	RVR 6000 for inoperative MALS R. When local altimeter not received, procedure NA.

MALSR

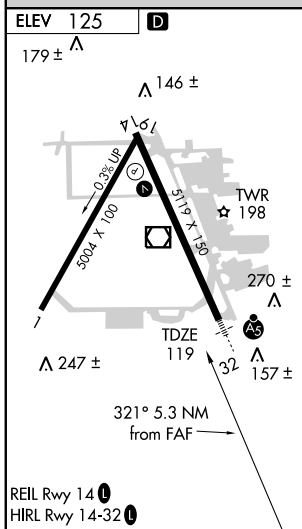
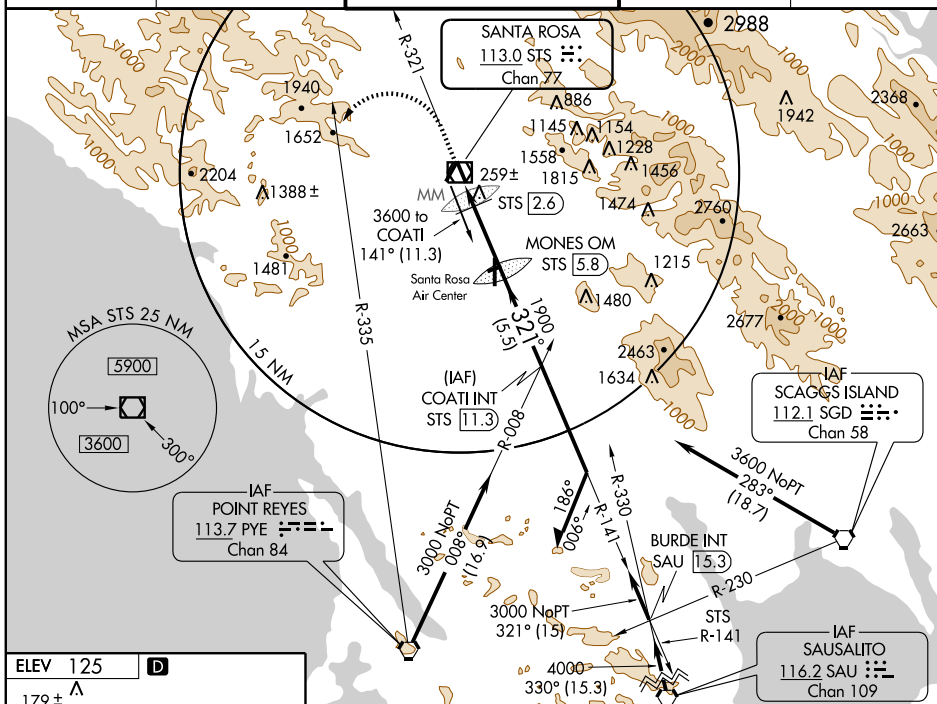
MISSED APPROACH: Climb to 1800 via STS R-321 then climbing left turn to 4000 via heading 240° and PYE R-335 to PYE VORTAC.

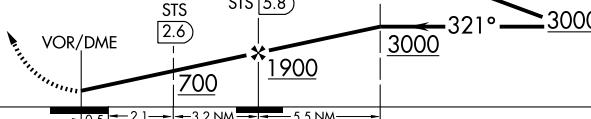
ATIS
120-55

OAKLAND CENTER
127.8 353.5

SANTA ROSA TOWER★
118.5 (CTAF) **L** 363.0

GND CO
121.9

UNICOM
122.95

1800 ↑ STS R-321	4000 ↖ 240°	PYE R-335 113.7	PYE  113.7	COAT INT STS 11.3	Remain within 10 NM
					
CATEGORY	A		B	C	D
S-32	700/24		581 (600-½)	700/50 581 (600-1)	700/60 581 (600-1¼)
CIRCLING	700-1		575 (600-1)	740-1¾ 615 (700-1¾)	740-2 615 (700-2)
DME MINIMUMS					
S-32	520/24		401 (400-½)	520/40 401 (400-¾)	520/50 401 (400-1)
CIRCLING	580-1 455 (500-1)		680-1 555 (600-1)	740-1¾ 615 (700-1¾)	740-2 615 (700-2)

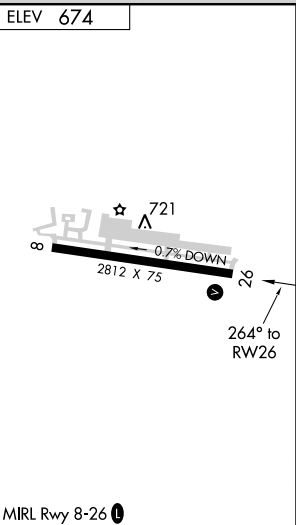
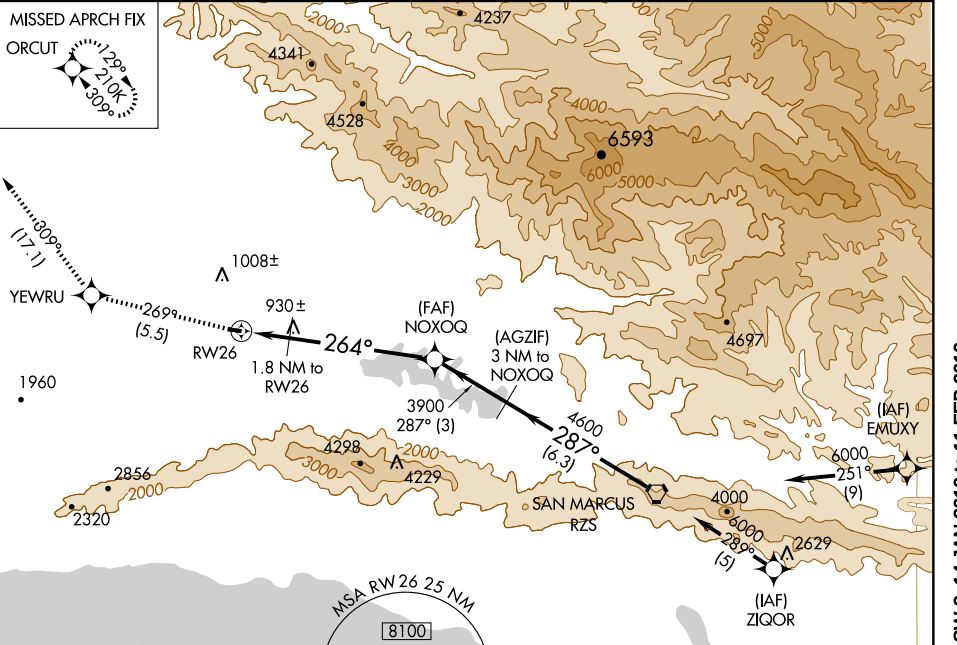
▽

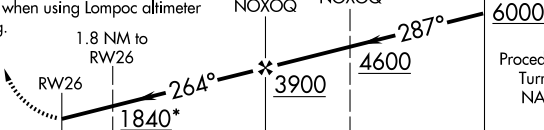
NA

Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting.

MISSED APPROACH: Climb to 5000 via 269° course to YEWRU WP, then via 309° course to ORCUT WP and hold.

AWOS-3 118.075	SANTA BARBARA APP CON* 124.15 327.8	UNICOM 122.8 (CTAF) 0
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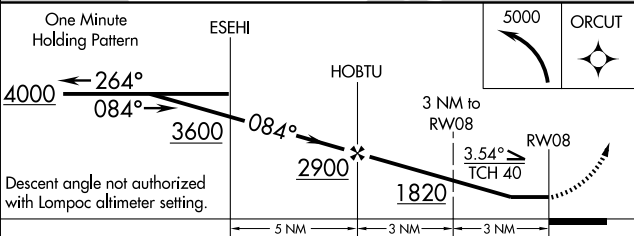
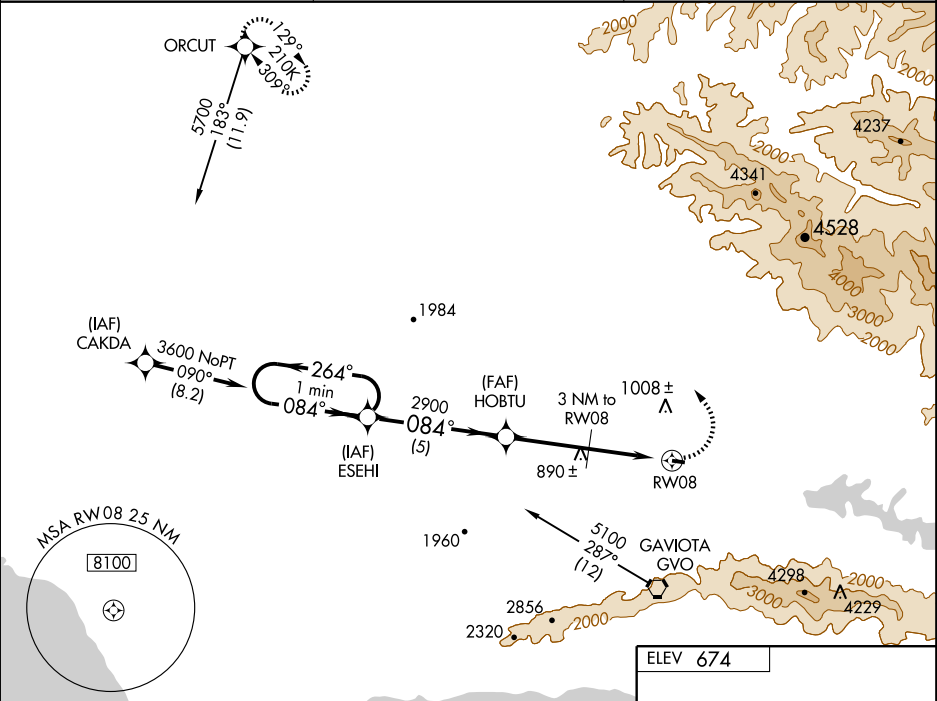
5000 ↑ 269° CRS	YEWRU 	309° CRS 	ORCUT 	VORTAC
*2360 when using Lompoc altimeter setting.				
				
CATEGORY	A	B	C	D
CIRCLING	1120-1 446 (500-1)	1160-1 486 (500-1)	NA	
LOMPOC ALTIMETER SETTING MINIMUMS				
CIRCLING	1640-1½ 966 (1000-1¼)	1680-1½ 1006 (1100-1½)	NA	

APP CRS	Rwy Idg	2804
084°	TDZE	671
	Apt Elev	674

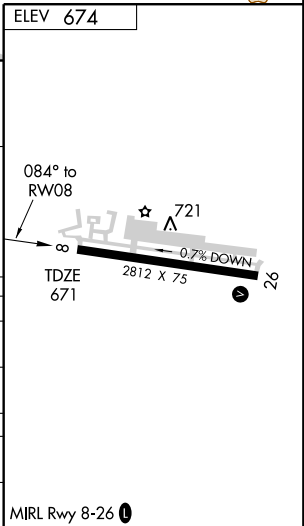
Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting.

MISSED APPROACH: Climbing left turn to 5000 direct ORCUT WP and hold.

AWOS-3 118.075	SANTA BARBARA APP CON ★ 124.15 327.8	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-8	1060-1	389 (400-1)		NA
CIRCLING	1120-1 446 (500-1)	1160-1 486 (500-1)		NA
LOMPOC ALTIMETER SETTING MINIMUMS				
S-8	1600-1¼	929 (1000-1¼)		NA
CIRCLING	1640-1¼ 966 (1000-1¼)	1680-1½ 1006 (1100-1½)		NA

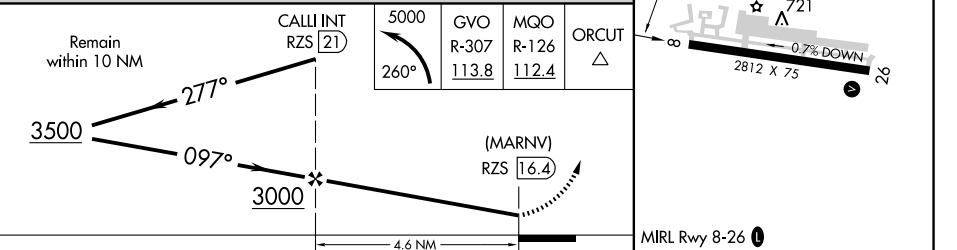
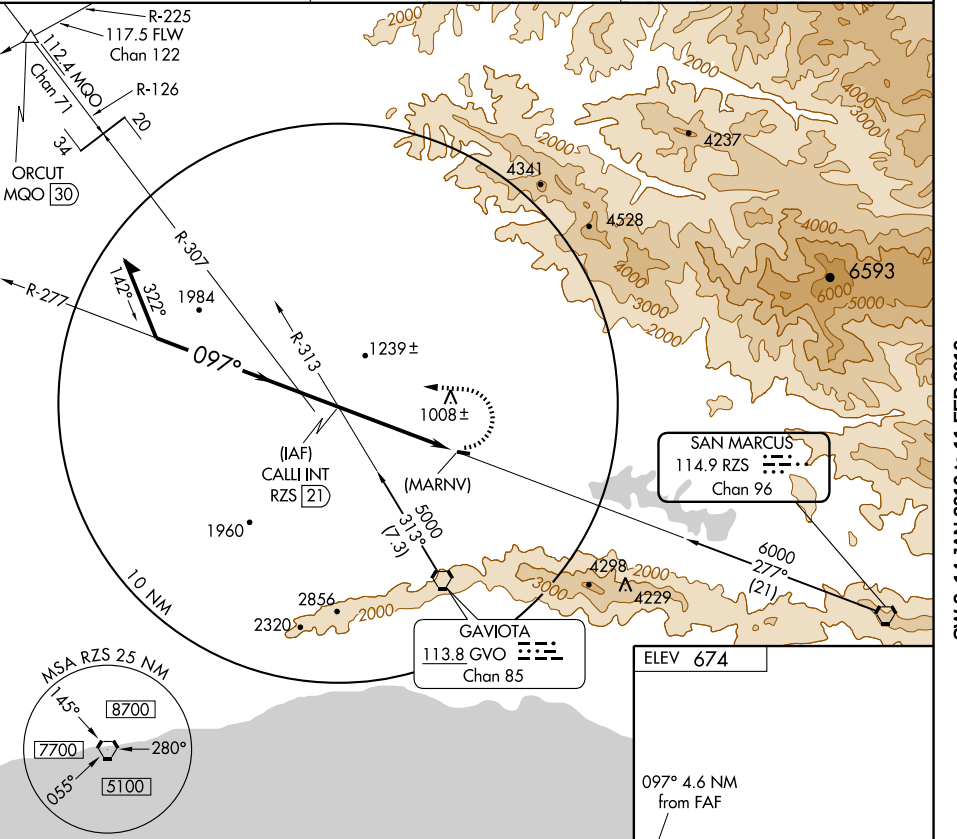


▼ Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting and increase all MDAs 540 feet.

▲

MISSED APPROACH: Climbing left turn to 5000 via heading 260° and GVO R-307 and MQO R-126 to ORCUT Int.

AWOS-3 118.075	SANTA BARBARA APP CON★ 124.15 327.8	UNICOM 122.8 (CTAF) 0
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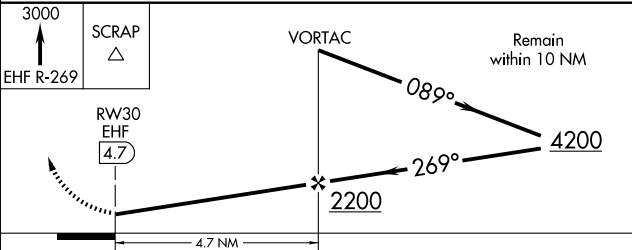
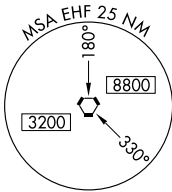
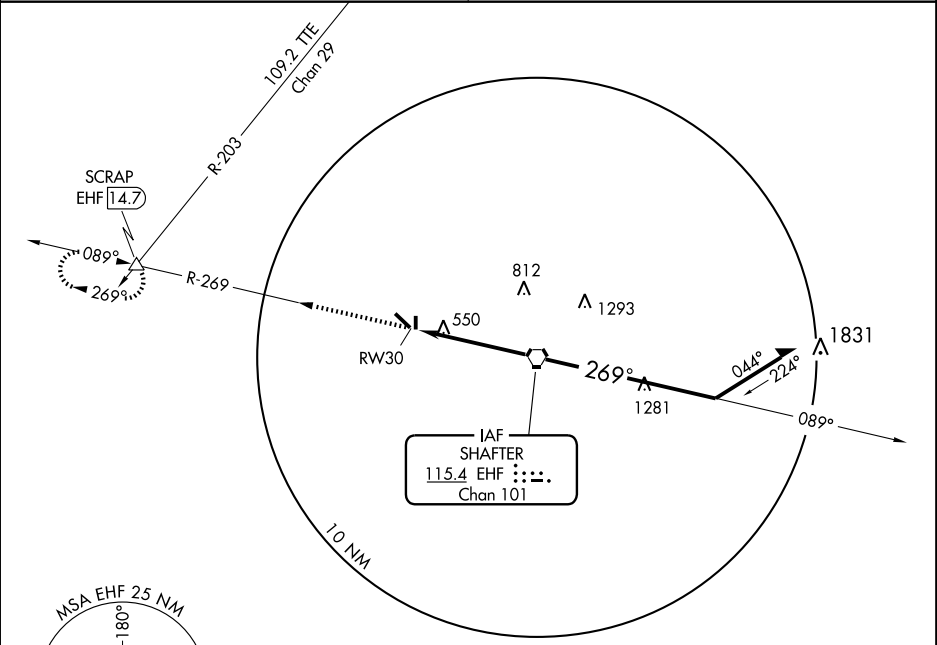
CATEGORY	A	B	C	D	FAF to MAP 4.6 NM					
CIRCLING	1880-1¼ 1206 (1300-1¼)	1880-1½ 1206 (1300-1½)	NA		Knots	60	90	120	150	180
					Min:Sec	4:36	3:04	2:18	1:50	1:32

SW-3, 14 JAN 2010 to 11 FEB 2010

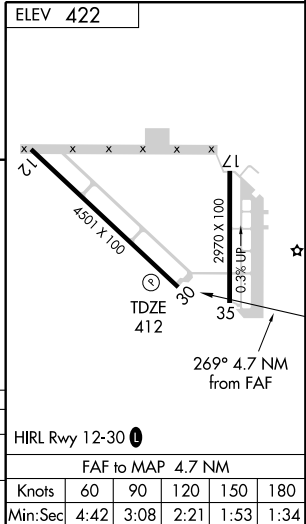
VORTAC EHF	APP CRS	Rwy Idg	4501
115.4	269°	TDZE	412
Chan 101		Apt Elev	422

VOR or GPS RWY 30
SHAFTER-MINTER FIELD (MIT')

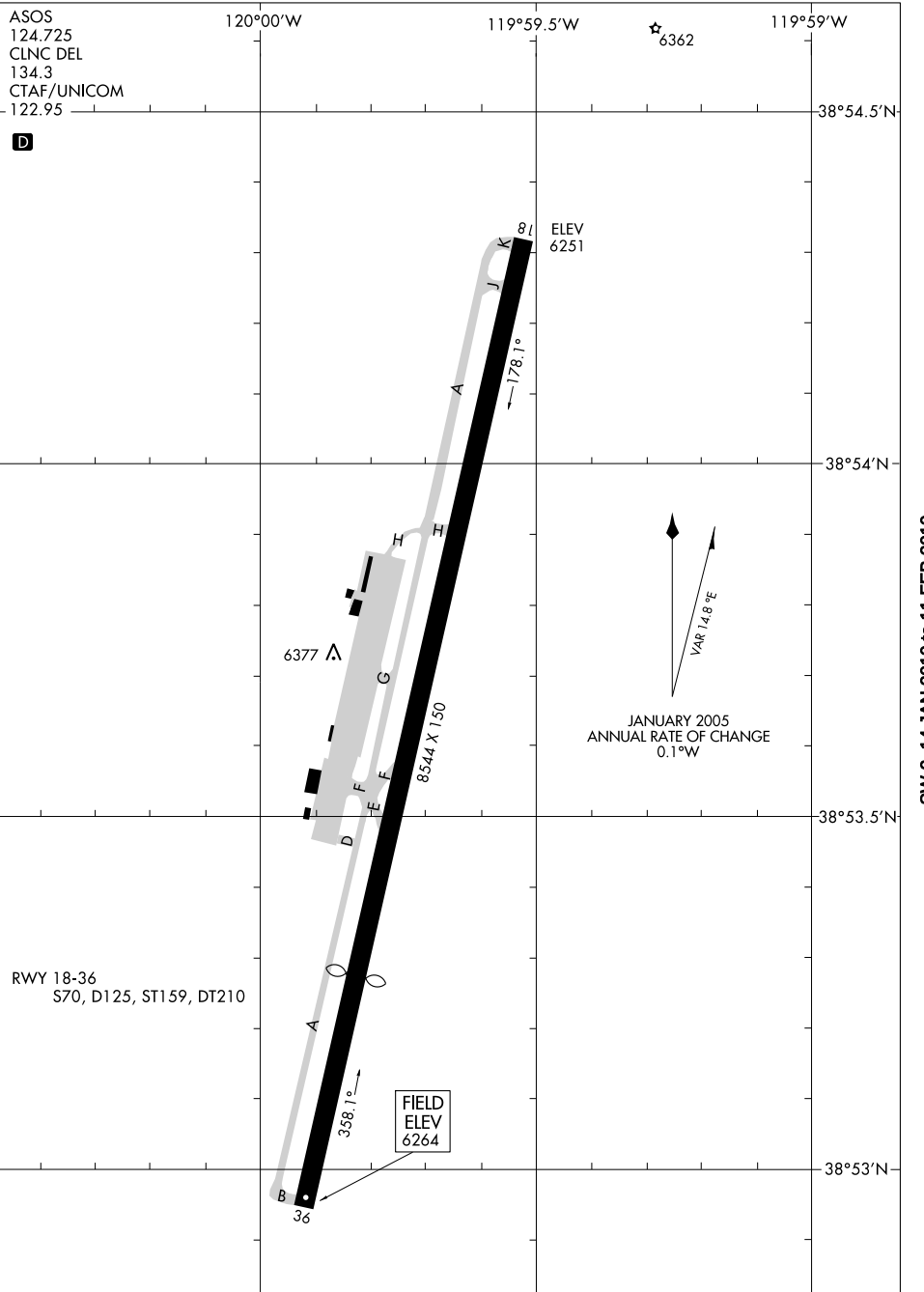
NA Use Bakersfield, CA altimeter setting. MISSED APPROACH: Climb to 3000 via EHF R-269 to SCRAP INT/EHF 14.7 DME and hold.	
BAKERSFIELD APP CON 126.45 270.3	CTAF 122.9 0



CATEGORY	A	B	C	D
S-30	860-1 448 (500-1)		860-1 ¼ 448 (500-1 ¼)	NA
CIRCLING	860-1 438 (500-1)	880-1 458 (500-1)	880-1 ½ 458 (500-1 ½)	NA



HIRL Rwy 12-30 0					
FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34



SW-2 14 JAN 2010 to 11 FEB 2010

APP CRS 172°	Rwy Idg TDZE Apt Elev	7017 6254 6264
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GPS RWY 18

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

T	
A NA	Circling not authorized at night.

MALSF

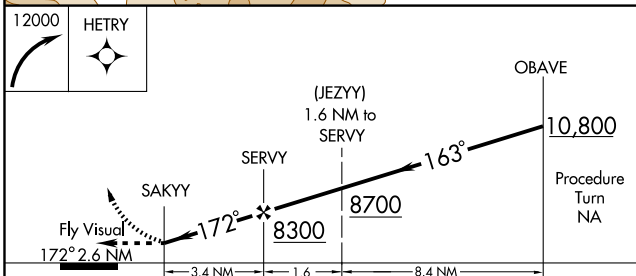
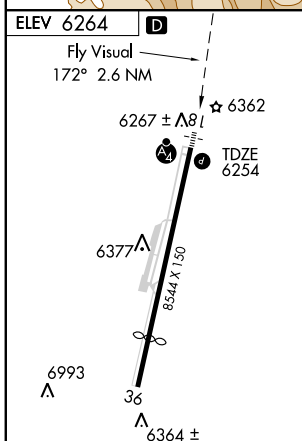
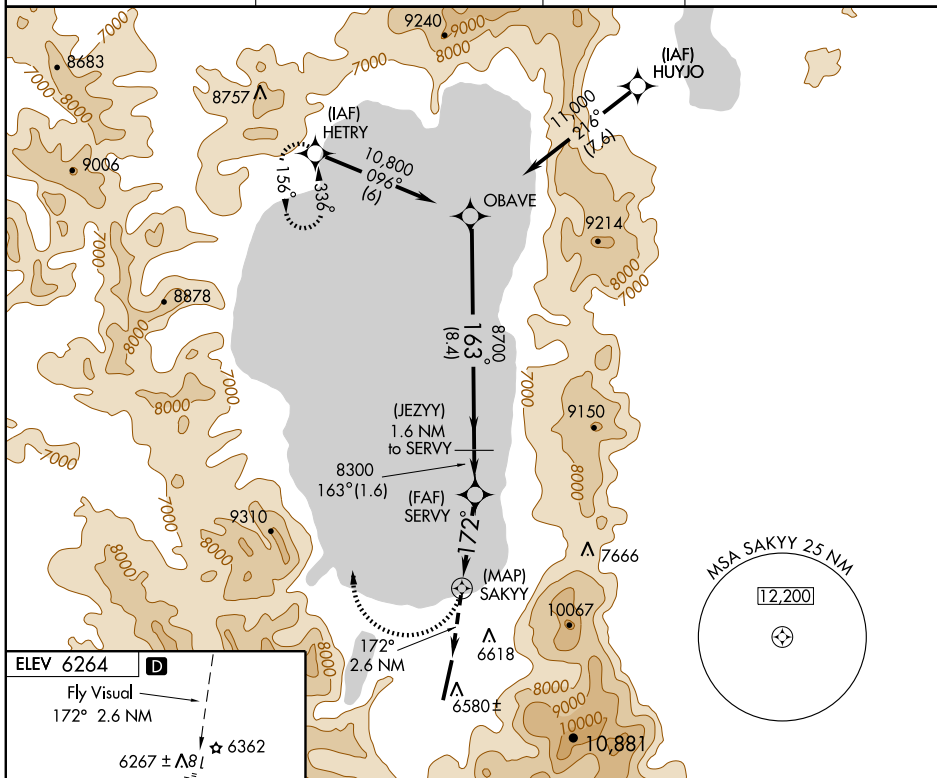


MISSED APPROACH: Climbing right turn to 12,000 direct HETRY WP and hold.

ASOS
124.725

OAKLAND CENTER
127.95 316.1

CLNC DEL
134.3

UNICOM
122.95 (CTAF) **L**

CATEGORY	A	B	C	D
S-18	7160-3 906 (900-3)			8700-3 2446 (2500-3)
CIRCLING	7420-3 1156 (1200-3)	7520-3 1256 (1300-3)	7560-3 1296 (1300-3)	8700-3 2436 (2500-3)

REIL Rwy 36
MIRL Rwy 18-36 **L**

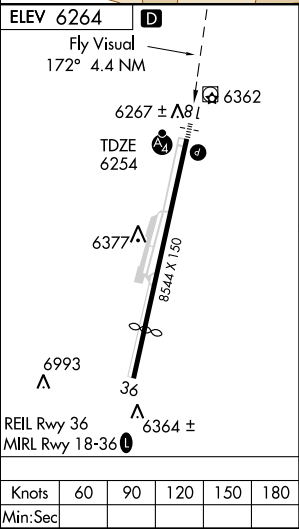
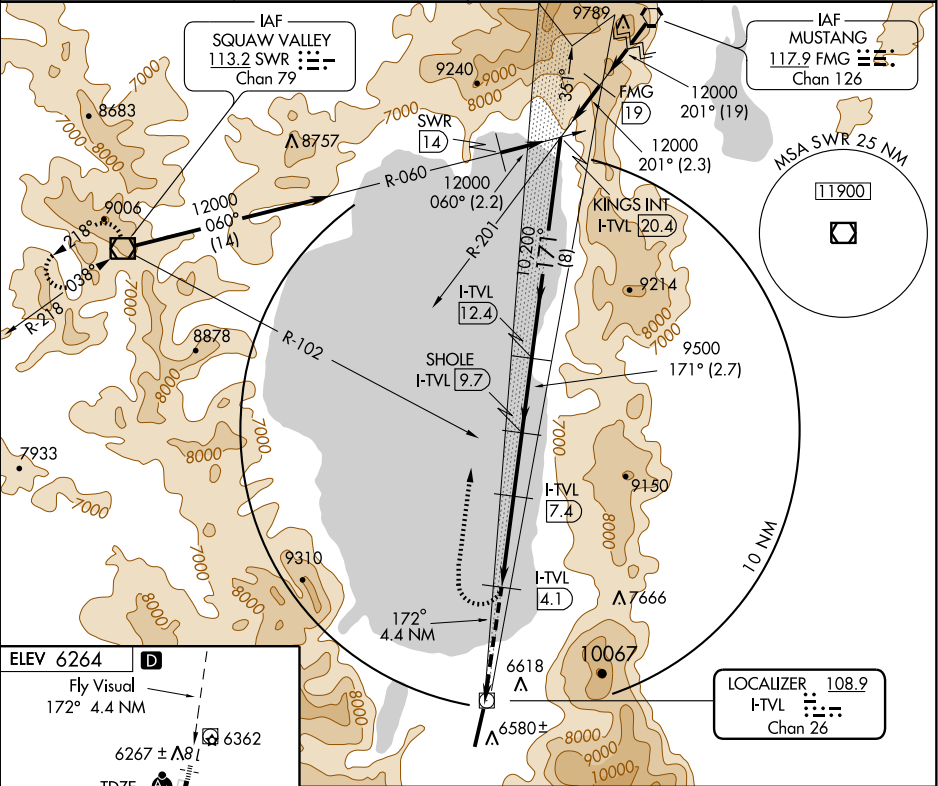
LOC/DME	I-TVL	APP CRS	Rwy Idg
108.9		171°	7017
Chan 26		TDZE	6254
		Apt Elev	6264

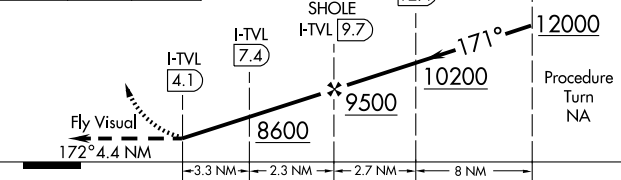
LDA/DME-1 RWY 18

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

NA Circling not authorized at night.	MALS -III- 	MISSED APPROACH: Climbing right turn to 11000 via heading 348° and SWR R-102 to SWR VOR/DME and hold.
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ASOS 124.725	OAKLAND CENTER 127.95 316.1	CLNC DEL 134.3	UNICOM 122.95 (CTAF)
------------------------	---------------------------------------	--------------------------	--------------------------------



 11000 348°	SWR R-102	 SWR <u>113.2</u>				
CATEGORY	A	B	C	D		
S-18	7280-5 1026 (1100-5)				8540-5 2286 (2300-5)	
CIRCLING	7420-5 1156 (1200-5)	7520-5 1256 (1300-5)	7540-5 1276 (1300-5)	8540-5 2276 (2300-5)		

LOC/DME I-TVL 108.9 Chan 26	APP CRS 171°	Rwy Idg 7017 TDZE 6254 Apt Elev 6264
---	------------------------	---

LDA/DME-2 RWY 18
SOUTH LAKE TAHOE/LAKE TAHOE (TVL)

	
 NA	Circling not authorized at night.

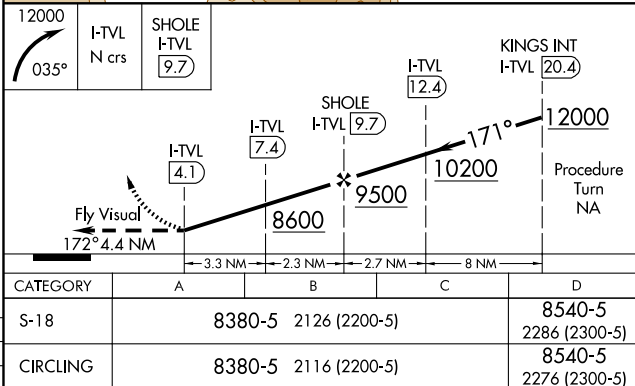
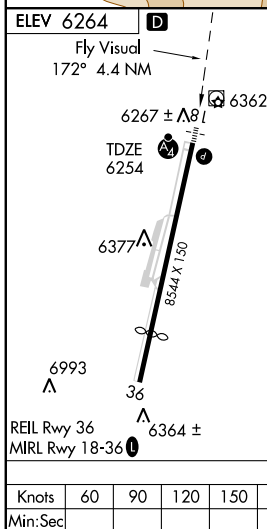
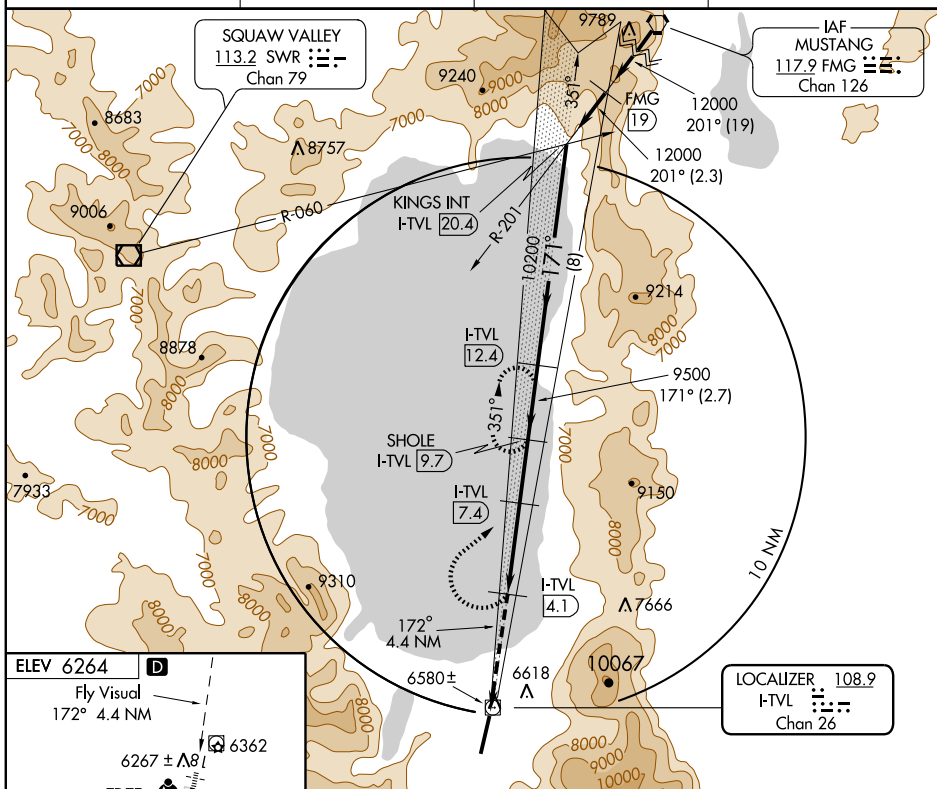
MAISE



MISSED APPROACH: Climbing right turn to 12000 via heading 035° and I-TVL north course to SHOLE/9.7 DME and hold.

ASOS
124.725

OAKLAND CENTER
127.95 316.1

CLNC DEL
134.3UNICOM
122.95 (CTAF) **L**

RICHY FIVE DEPARTURE

SL-5416 (FAA)

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

SOUTH LAKE TAHOE, CALIFORNIA

MINIMUM CROSSING ALTITUDE: at RICHY INT
Northwest-bound direct SWR VOR/DME 8300'

NOTE: This SID requires a minimum climb rate of
400 feet per NM to 10000'.

OAKLAND CENTER

127.95 316.1

CLNC DEL

134.3

CTAF 122.95

MUSTANG
117.9 FMG 
Chan 126

SQUAW VALLEY
113.2 SWR 
Chan 79
N39°10.83'-W120°16.18'

11000

RICHY
N38°59.87'
W120°01.15'
12000

SE and SW bound

297°
(16)

36

8300

13000

192°

(25)

330°

117°

(21)

MARRI
N38°45.79'
W119°42.01'
13000
L-9

14

41

15000

117°

(7)

48

15000

117°

(7)

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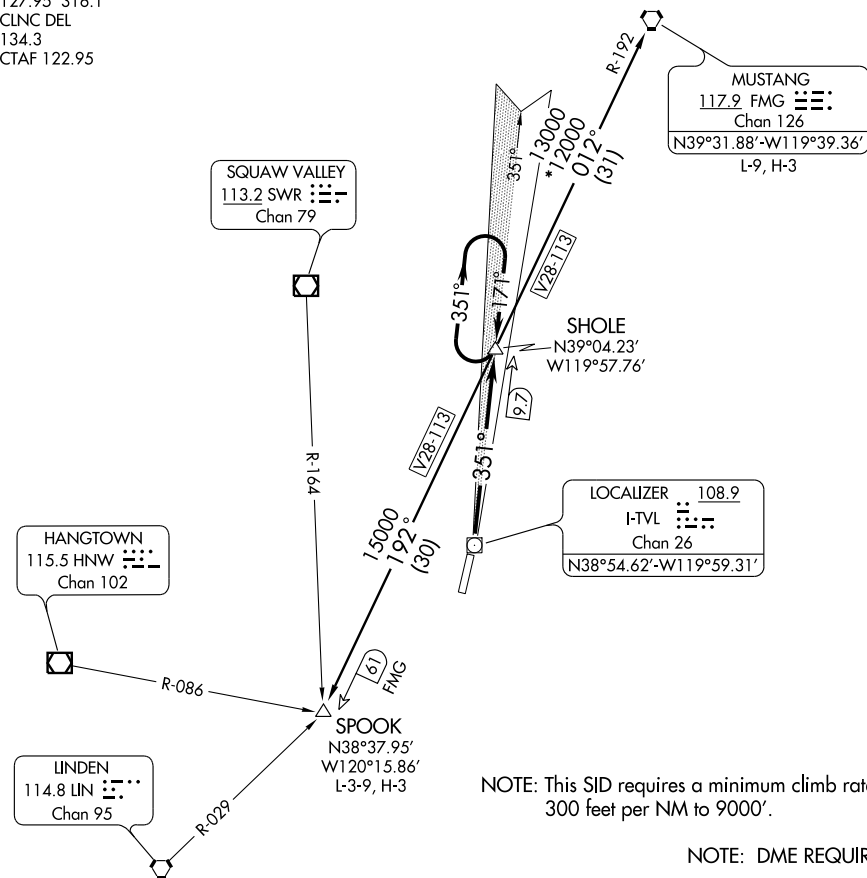
48

15000

117°

SHOLE ONE DEPARTURE

SL-5416 (FAA)

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)
SOUTH LAKE TAHOE, CALIFORNIAOAKLAND CENTER
127.95 316.1
CLNC DEL
134.3
CTAF 122.95

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 18: Not authorized.TAKE-OFF RUNWAY 36: Climb northbound via I-TVL localizer north course to SHOLE I-TVL 9.7 DME Fix. Continue climb in SHOLE 9.7 DME holding pattern, north 4 NM leg, right turns, 171° inbound I-TVL localizer until reaching 13000', thence via (transition) or (assigned route).MUSTANG TRANSITION (SHOLE1.FMG): From over SHOLE DME via FMG R-192 to FMG VORTAC.SPOOK TRANSITION (SHOLE1.SPOOK): From over SHOLE DME via FMG R-192 to SPOOK INT.

VOR/DME SWR	APP CRS	Rwy Idg	N/A
113.2	117°	TDZE	N/A
Chan 79		Apt Elev	6264

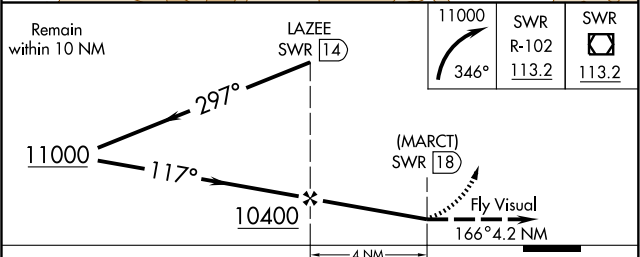
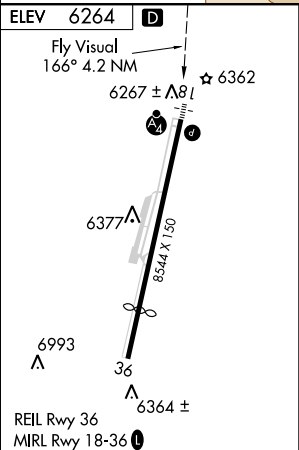
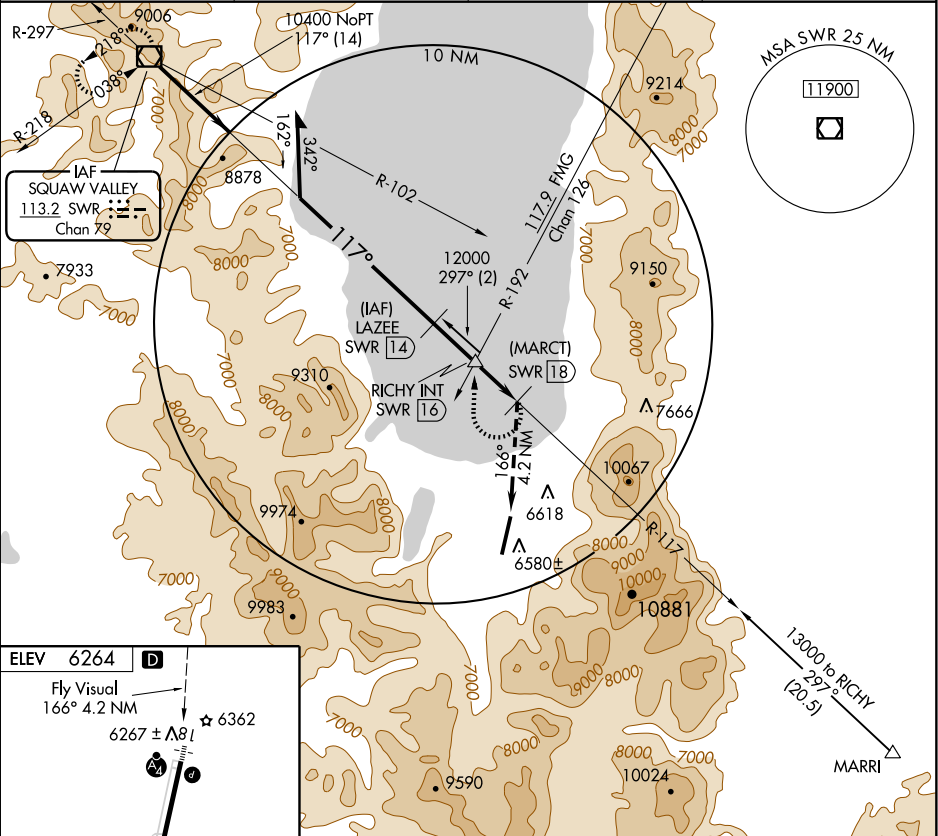
VOR/DME or GPS-A

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

- * Circling to Rwy 36 not authorized at night.
- Air carrier landing visibility reduction for local conditions not authorized.

MISSED APPROACH: Climbing right turn to 11000 via heading 346° and SWR R-102 to SWR VOR/DME and hold.

ASOS 124.725	OAKLAND CENTER 127.95 316.1	CLNC DEL 134.3	UNICOM 122.95 (CTAF)
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						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING*	8800-5 2536 (2600-5)			
Min:Sec										



LOC I-SCK	APP CRS	Rwy Idg	8701
109.1	291°	TDZE	30
		Apt Elev	30

ILS or LOC RWY 29R

STOCKTON METROPOLITAN (SCK)

▼

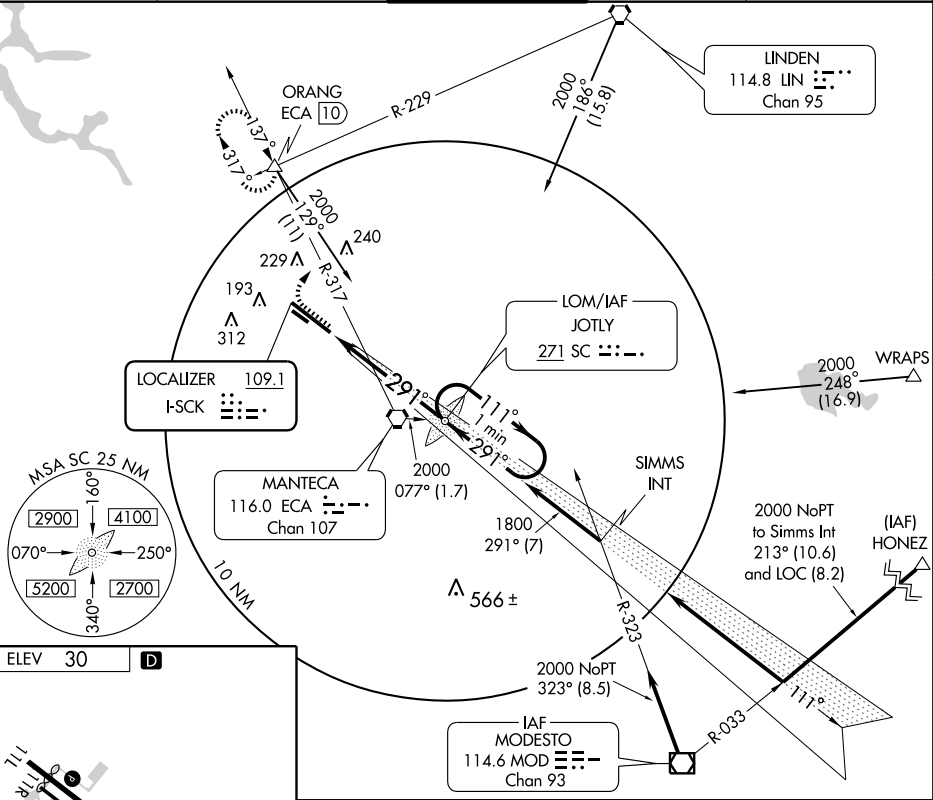
▲

For inoperative MALS, increase S-LOC 29R Cat D visibility to 1 mile.

MALS

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 via heading 010° and ECA R-317 to ORANG Int and hold.

ATIS	NORCAL APP CON	STOCKTON TOWER*	GND CON	UNICOM
118.25	(SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	120.3 (CTAF) 239.0	121.9	122.95



ELEV 30

D

HIRL Rwy 11L-29R

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

	500	2000	ECA R-317 116.0	ORANG	LOM	One Minute Holding Pattern	
		010°			1758		
						111°	1800
						291°	1800
							GS 2.90° TCH 62
						5.3 NM	
CATEGORY	A	B	C	D			
S-ILS 29R	230/24			200 (200-½)			
S-LOC 29R	360/24			330 (400-½)	360/40 330 (400-¾)		
CIRCLING	500-1 470 (500-1)	540-1 510 (600-1)	540-1½ 510 (600-1½)	540-1½ 670 (700-2)			

SW-2, 14 JAN 2010 to 11 FEB 2010

NDB RWY 29R
STOCKTON METROPOLITAN (SCK)



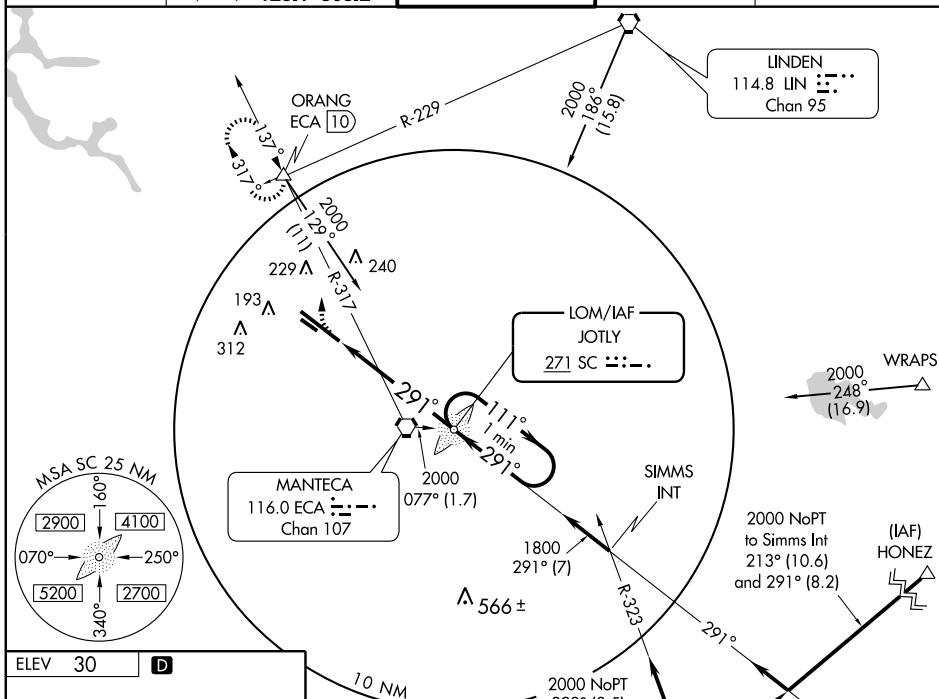
MALSR



MISSED APPROACH: Climbing right turn to 2000 via heading 010° and ECA R-317 to ORANG Int and hold.

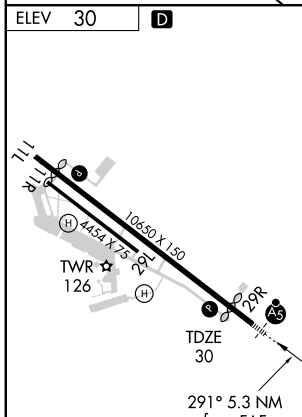
NORCAL APP CON
(SE-NW) **123.85 278.3**
(N-SE) **125.1 363.2**

STOCKTON TOWER ★
120.3 (CTAF)  239.0

UNICOM
122.95

SW-2: 14 JAN 2010 to 11 FEB 2010

ELEV 30

HIRL Rwy 11L-29R **L**

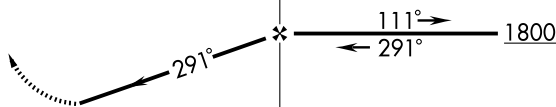
FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

2000  010°	ECA R-317 116.0	ORANG 
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LOM

One Minute Holding Pattern



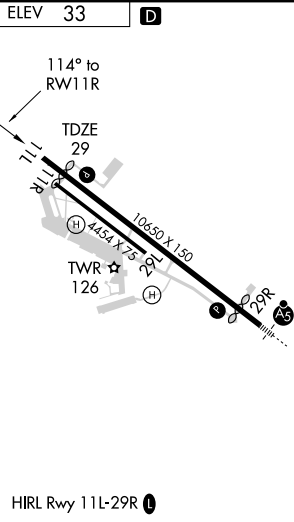
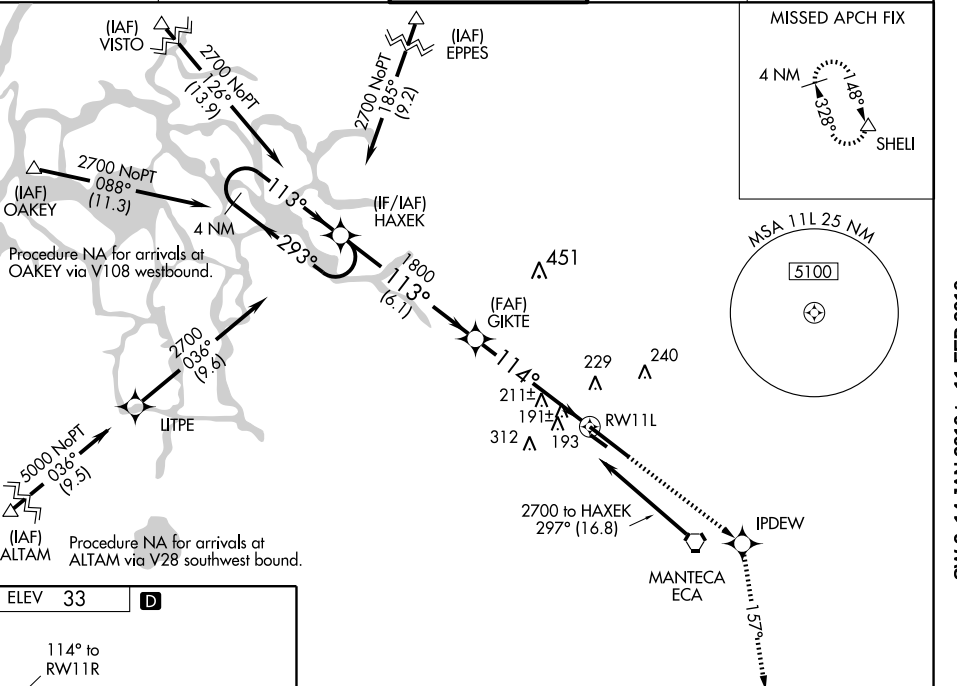
CATEGORY	A	B	C	D
S-29R	520/40 490 (500-¾)			520/60 490 (500-1¼)
CIRCLING	520-1 490 (500-1)	540-1 510 (600-1)	540-1½ 510 (600-1½)	700-2 670 (700-2)

WAAS CH 72910 W11A	APP CRS 114°	Rwy Idg TDZE 29 Apt Elev 33
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T Baro-VNAV NA when using Modesto altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME-RNP-0.3 NA. When local altimeter setting not received, use Modesto altimeter setting: increase all DA 58 feet and LPV and LNAV/VNAV all Cats visibility ¼ mile; increase all MDA 60 feet and LNAV Cat C and circling Cat D visibility ¼ mile. VDP NA with Modesto altimeter setting.

MISSED APPROACH: Climb to 3000 direct IPDEW and right turn via 157° track to SHEL and hold.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER★ 120.3 (CTAF) 239.0	GND CON 121.9	UNICOM 122.95
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4 NM Holding Pattern				
HAXEK				
2700 ← 293°				
VGSI and RNAV glidepath not coincident.				
GS 3.00°				
TCH 50				
GIKTE				
1800				
113°				
114°				
RW11L				
1.2 NM to RW11L*				
IPDEW				
3000				
157°				
SHEL				
*LNAV only				
CATEGORY	A	B	C	D
LPV DA		279-3/4	250 (300-3/4)	
LNAV/VNAV DA		512-1 3/4	483 (500-1 3/4)	
LNAV MDA	480-1	451 (500-1)	480-1 1/4 451 (500-1 1/4)	480-1 1/2 451 (500-1 1/2)
CIRCLING	500-1 467 (500-1)	540-1 507 (600-1)	540-1 1/2 507 (600-1 1/2)	680-2 647 (700-2)

SW-2 14 JAN 2010 to 11 FEB 2010

WAAS CH 87010 W29A	APP CRS 294°	Rwy Idg TDZE Apt Elev	8701 32 33
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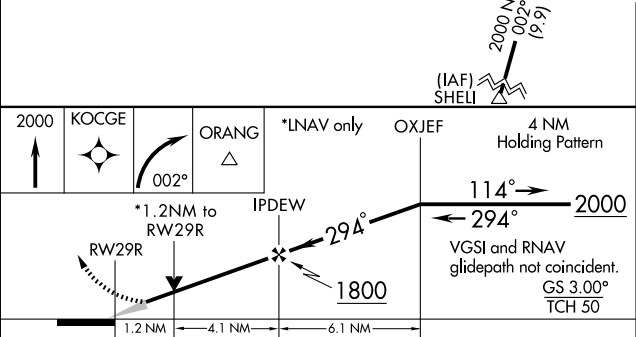
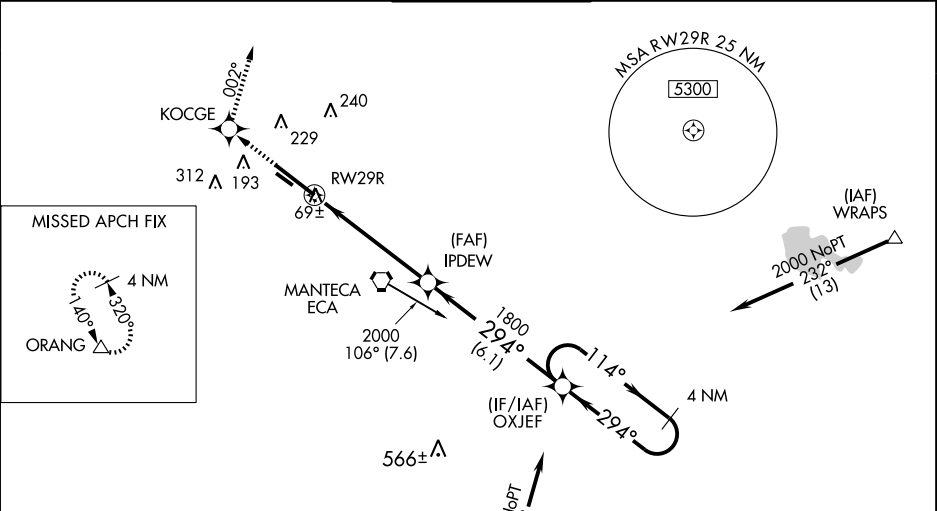
RNAV (GPS) RWY 29R
STOCKTON METROPOLITAN (SCK)

T For inoperative MALSR, increase LNAV/VNAV Cat D visibility to RVR 5000.
A Baro-VNAV NA when using Modesto altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Modesto altimeter setting: increase all DA 58 feet and LNAV/VNAV Cats A/B/C visibility ¼ mile; increase all MDA 60 feet and circling Cat D visibility ¼ mile. For inoperative MALSR, when using Modesto altimeter setting, increase LPV all Cats visibility to 1 mile.
VDP NA with Modesto altimeter setting.

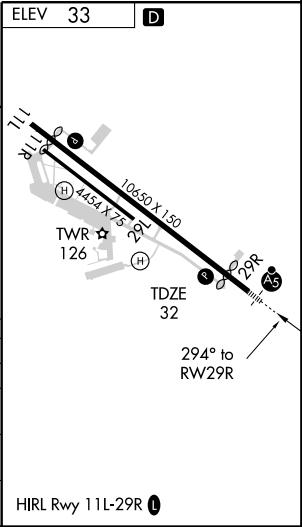
MALSR

MISSED APPROACH: Climb to 2000 direct KOCGE and right turn via 002° track to ORANG and hold, continue climb-in-hold to 2000.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER ★ 120.3 (CTAF) 0 239.0	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	282/24		250 (300-½)	
LNAV/VNAV DA	327/24		295 (300-½)	
LNAV MDA	460/24		460/40	
CIRCLING	500-1		540-1	



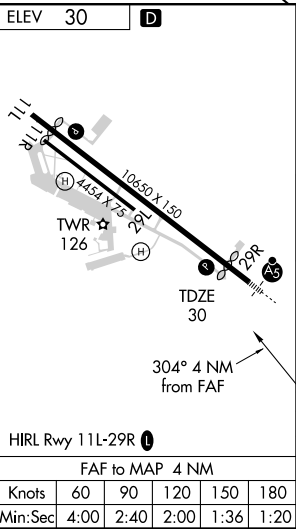
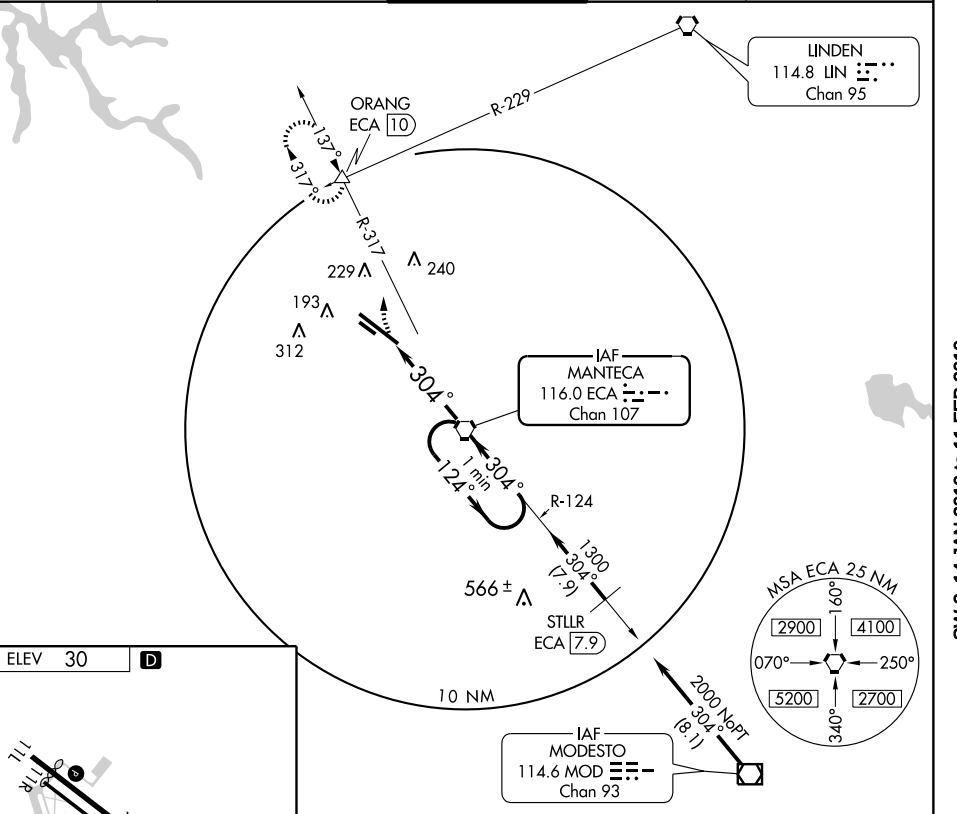
VORTAC ECA	APP CRS	Rwy Idg	8701
116.0	304°	TDZE	30
Chan 107		Apt Elev	30

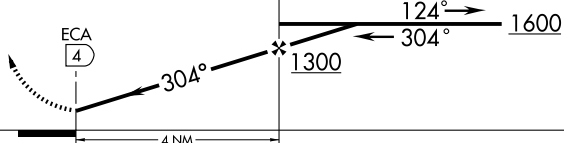
Inoperative table does not apply.

MALSR

MISSED APPROACH: Climbing right turn to 2000 via heading 010° and ECA R-317 to ORANG Int and hold.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER ★ 120.3 (CTAF) 239.0	GND CON 121.9	UNICOM 122.95
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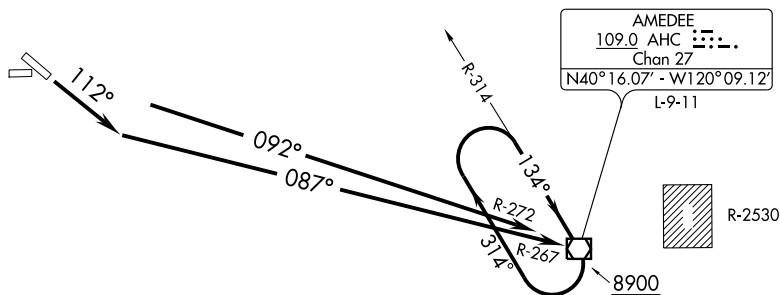


2000  010°	ECA R-317 116.0	ORANG △	VORTAC One Minute Holding Pattern	
ECA 4		124° 1600	304° 1300	
CATEGORY	A	B	C	D
S-29R	460/50	430 (500-1)	460/60 430 (500-1½)	460-1½ 430 (500-1½)
CIRCLING	500-1 470 (500-1)	540-1 510 (600-1)	540-1½ 510 (600-1¼)	700-2 670 (700-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

AMEDEE ONE DEPARTURE (OBSTACLE)

OAKLAND CENTER
128.8 285.5
CTAF 122.8

TAKE-OFF MINIMUMS

Rwy 7, 25, 29: NA- obstacles.

Rwy 11: Standard with minimum climb of 410' per NM to 6000
or 1900-2½ for climb in visual conditions.

SW-2, 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Climb via 112° heading and AHC R-267 to AHC VOR/DME, Thence....

Or climb in visual conditions to cross Susanville Muni Airport eastbound at or above 6000, then via AHC R-272 to AHC VOR/DME, Thence....

....cross AHC VOR/DME at or above 8900'. Climb in AHC holding pattern (hold NW, right turns, 134° inbound) to depart AHC VOR/DME at or above 14000 before proceeding on course.

APP CRS	Rwy Idg	N/A
142°	TDZE	N/A
	Apt Elev	4149

RNAV (GPS)-A

SUSANVILLE MUNI (SVE)

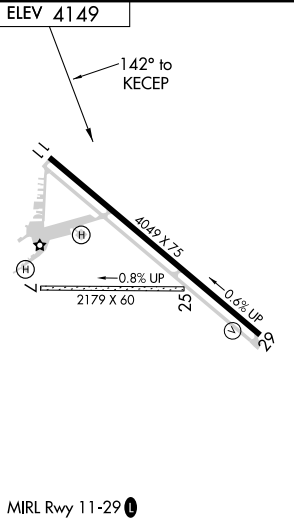
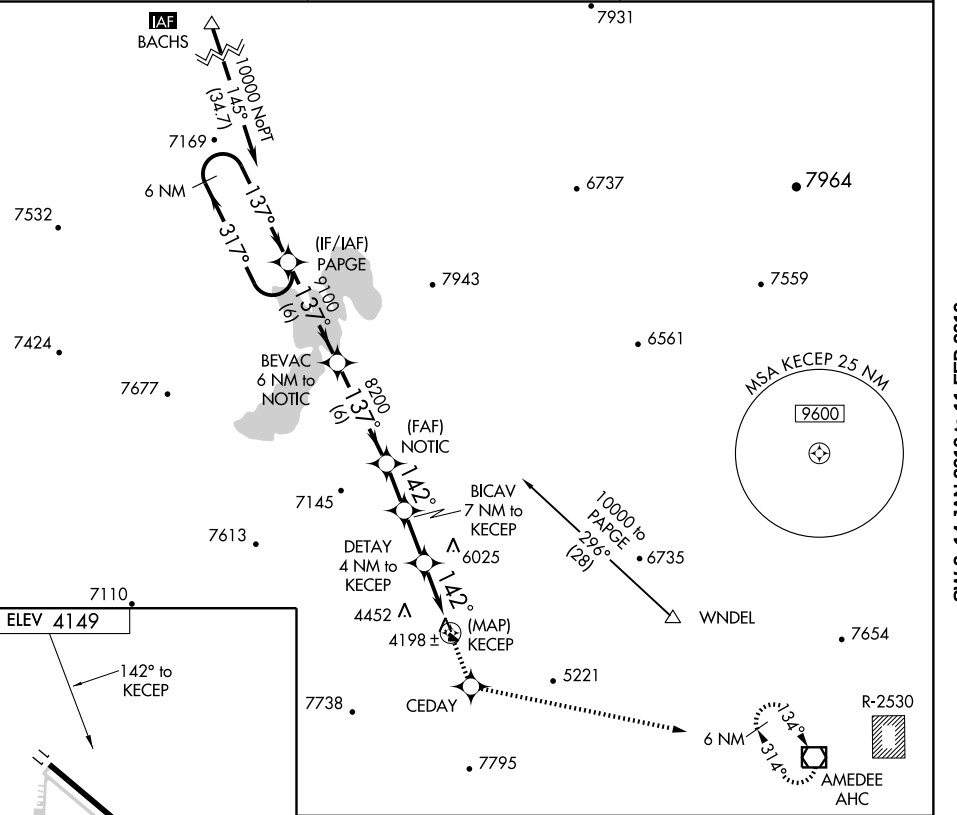
▼

▲ NA

If local altimeter setting not received, use Reno/Stead altimeter setting and increase all MDAs 720 feet.
Circling to Rwy 7/25 NA.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climb to 14000 direct CEDAY WP and via 085° track to AHC VOR/DME and hold.

AWOS-3 133.8	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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6 NM Holding Pattern PAPER				14000	CEDAY	085° track	AHC
10000 ← 317° 137° → 9100				8200	7400	6600	KECEP
* 7800 when using Reno/Stead altimeter setting							
6 NM 6 NM 2.7 NM 4 NM							
CATEGORY	A	B	C	D			
CIRCLING	5040-1¼ 891 (900-1¼)		5040-2¾ 891 (900-2¾)		5040-3 891 (900-3)		

SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	4049
297°	TDZE	4145
	Apt Elev	4149

RNAV (GPS) RWY 29

SUSANVILLE MUNI (SVE)

▼ If local altimeter setting not received, use Reno/Stead altimeter setting and increase all MDAs 720 feet.

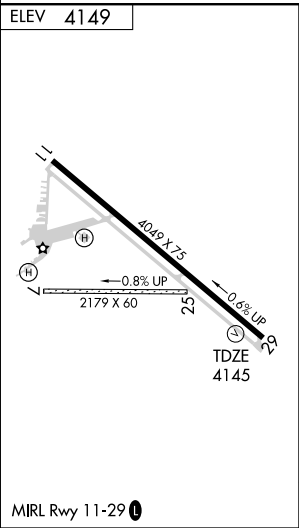
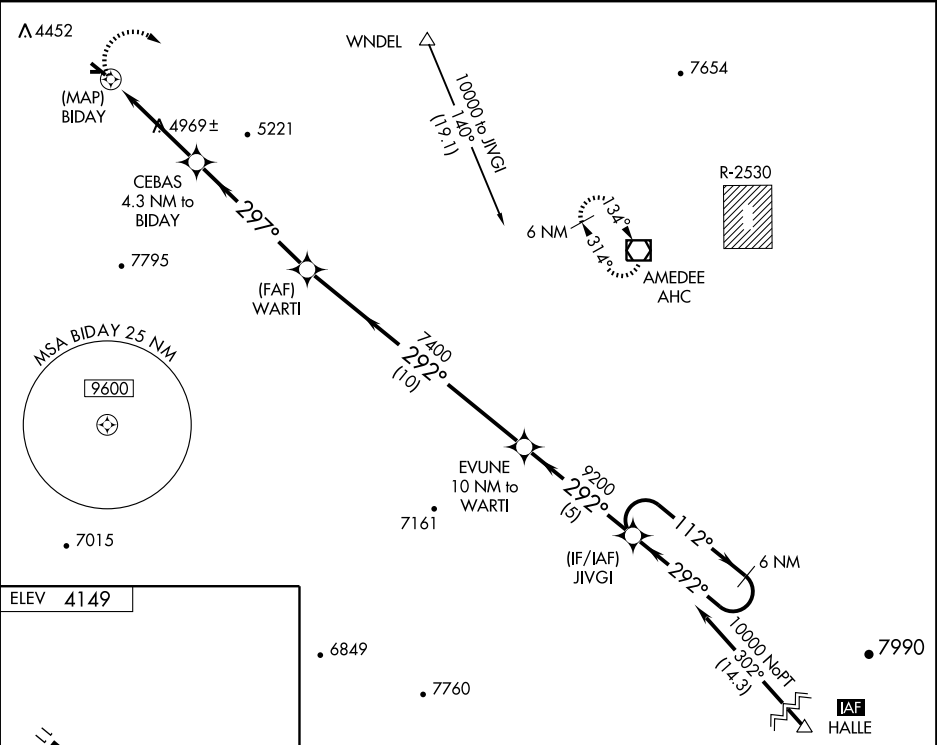
▲ NA Straight-in minimums NA when using Reno/Stead altimeter setting. Circling to Rwy 7/25 NA.

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing right turn to 14000 direct AHC VOR/DME and hold.

AWOS-3 133.8	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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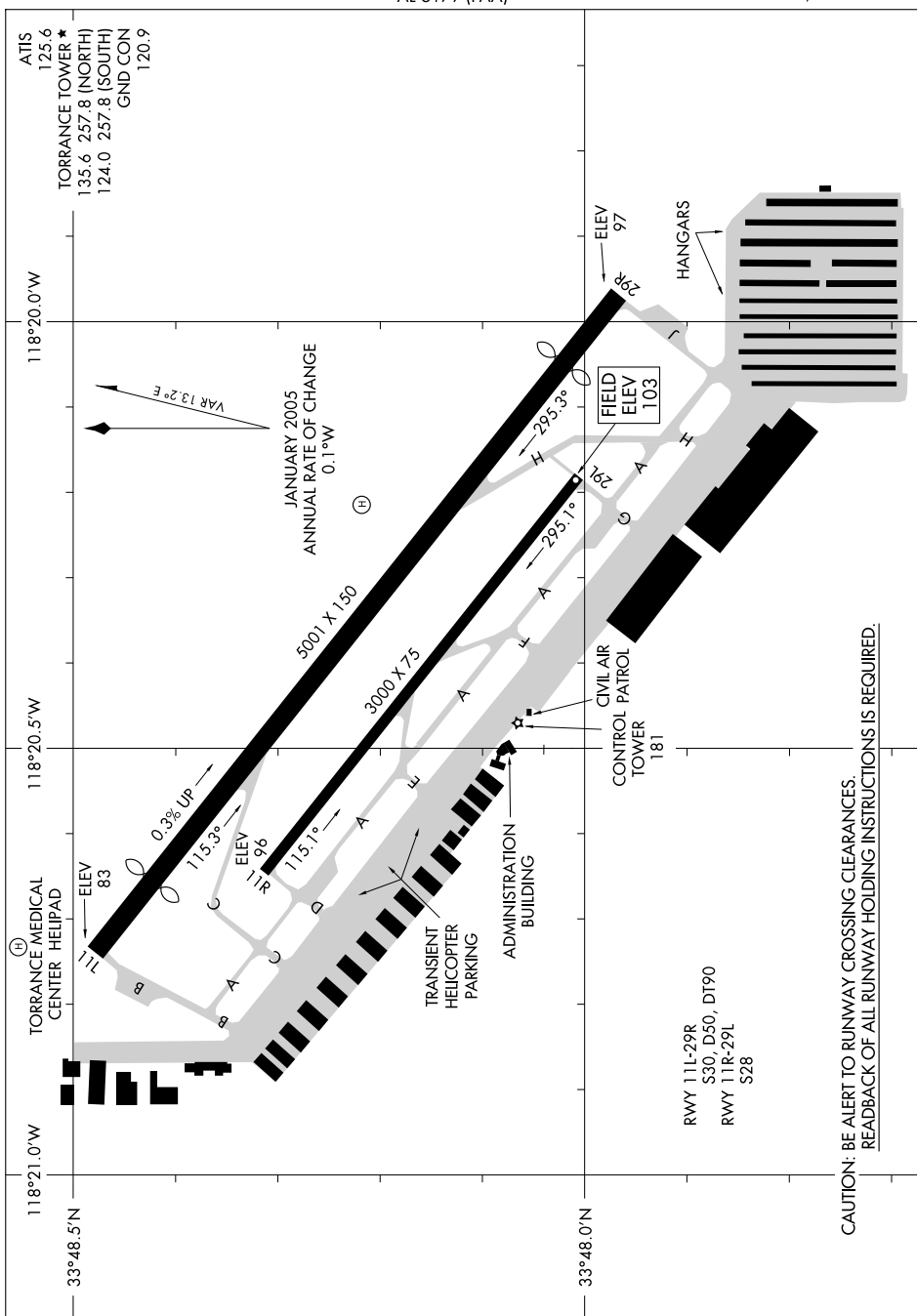


14000	AHC	*6140 when using Reno/Stead altimeter setting.			6 NM Holding Pattern		
		CEBAS 4.3 NM to BIDAY	WARTI	EVUNE 10 NM to WARTI	JIVGI		
		BIDAY	297°		292°	112°	
		5620*	7400	9200	10000		
		≤3.05°	TCH 45		VGSI and descent angles not coincident.		
		0.2	4.3 NM	5.5 NM	10 NM	5 NM	
CATEGORY	A		B		C	D	
LNAV MDA	5220-1¼ 1075 (1100-1¼)		5220-1½ 1075 (1100-1½)		5220-3	1075 (1100-3)	
CIRCLING	5220-1¼ 1071 (1100-1¼)		5220-1½ 1071 (1100-1½)		5220-3	1071 (1100-3)	

AIRPORT DIAGRAM

AL-5179 (FAA)

TORRANCE/ZAMPERINI FIELD (TOA)
TORRANCE, CALIFORNIA



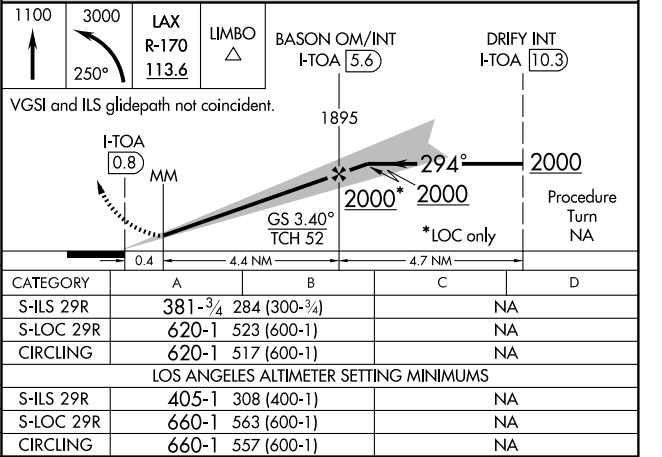
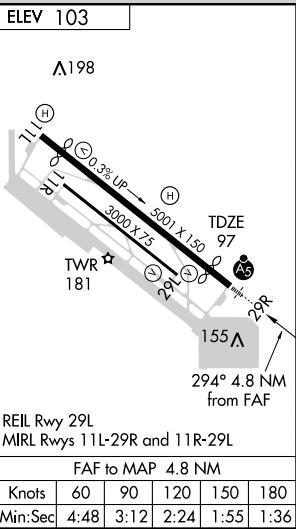
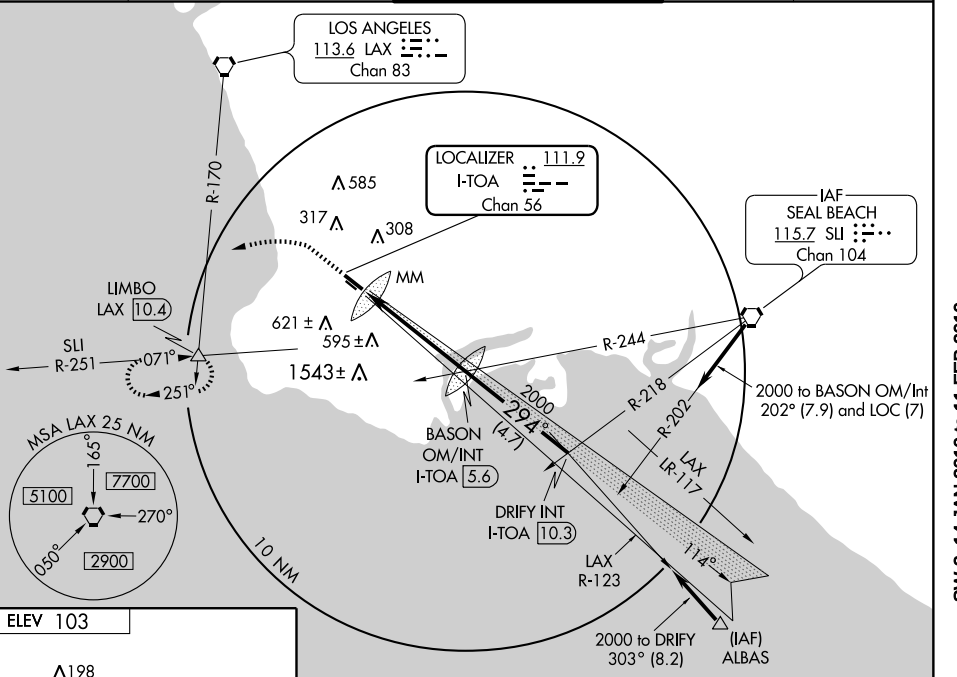
LOC/DME I-TOA	APP CRS	Rwy Idg	4461
111.9	294°	TDZE	97
Chan 56		Apt Elev	103

When control tower closed, except for operators with approved weather reporting service, use Los Angeles altimeter setting.
Inoperative table does not apply.
Circling NA southwest of Rwy 11R-29L.

MALSR

MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 via heading 250° and LAX R-170 to LIMBO Int/LAX 10.4 DME and hold.

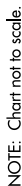
ATIS	SOCAL APP CON	TORRANCE TOWER*	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R)	135.6 257.8 (NORTH)	120.9	122.95
	127.2 269.6 (Rwys 29L, 29R)	124.0 (CTAF) 257.8 (SOUTH)		



SW-3, 14 JAN 2010 to 11 FEB 2010

ST-236 (FAA)

LONG BEACH, CALIFORNIA



VORTAC LAX 113.6 Chan 83	APP CRS 135°	Rwy Idg 4459 TDZE 96 Apt Elev 103
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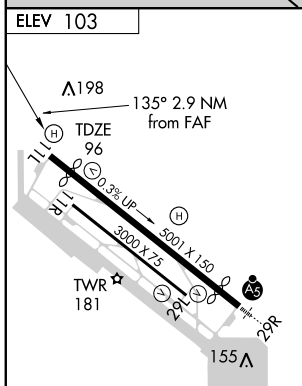
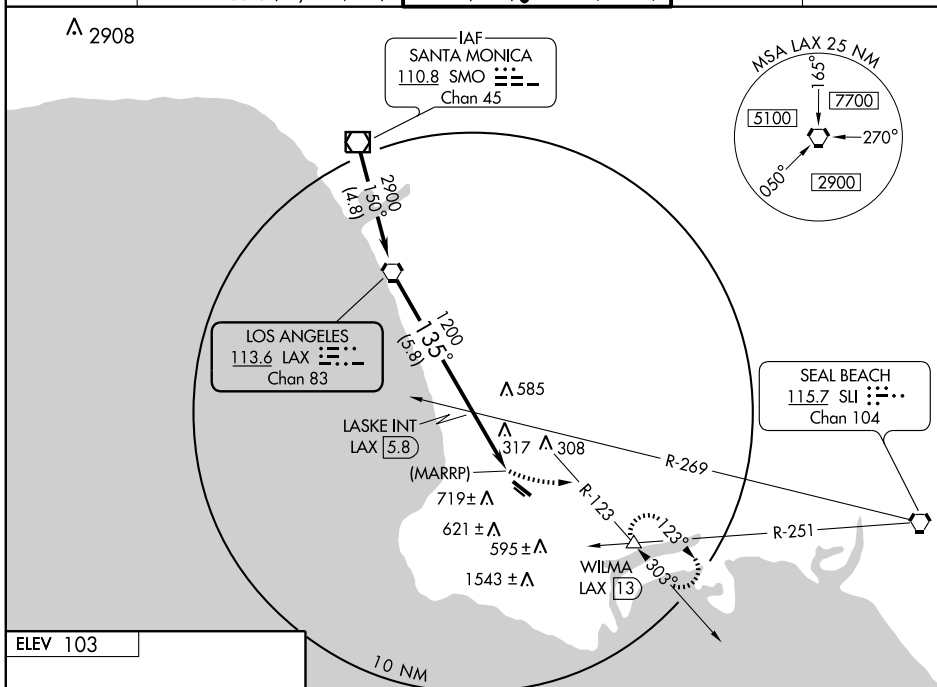
VOR or GPS RWY 11L

TORRANCE/ ZAMPERINI FIELD (TOA)

▼ When control tower closed, except for operators with approved weather reporting service, use Los Angeles altimeter setting. Circling NA southwest of Rwy 11R-29L.

MISSED APPROACH: Climbing left turn to 3000 via heading 075° and LAX R-123 to WILMA Int and hold.

ATIS 125.6	SOCAL APP CON 124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	TORRANCE TOWER* 135.6 257.8 (NORTH) 124.0 (CTAF) 0 257.8 (SOUTH)	GND CON 120.9	UNICOM 122.95
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REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L

FAF to MAP 2.4 NM					
Knots	60	90	120	150	180
Min:Sec	2:24	1:36	1:12	0:58	0:48

VORTAC 2900 Procedure Turn NA VGSI and descent angles not coincident. 135° 1200 5.8 NM			LASKE INT LAX <u>5.8</u> 3.46° TCH 40 2.4 NM	3000 075° LAX R-123 113.6 WILMA  (MARRP) LAX <u>8.2</u> 0.5
CATEGORY	A	B	C	D
S-11L	980-1¼	884 (900-1¼)	NA	
CIRCLING	980-1¼	877 (900-1¼)	NA	
LOS ANGELES ALTIMETER SETTING MINIMUMS				
S-11L	1020-1¼	924 (1000-1¼)	NA	
CIRCLING	1020-1¼	917 (1000-1¼)	NA	

NDB TCY	APP CRS	Rwy Idg	4001
203	114°	TDZE	193
		Apt Elev	193

NDB RWY 12

TRACY MUNI (TCY)

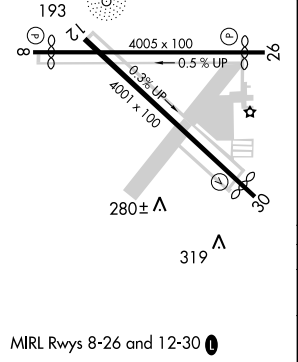
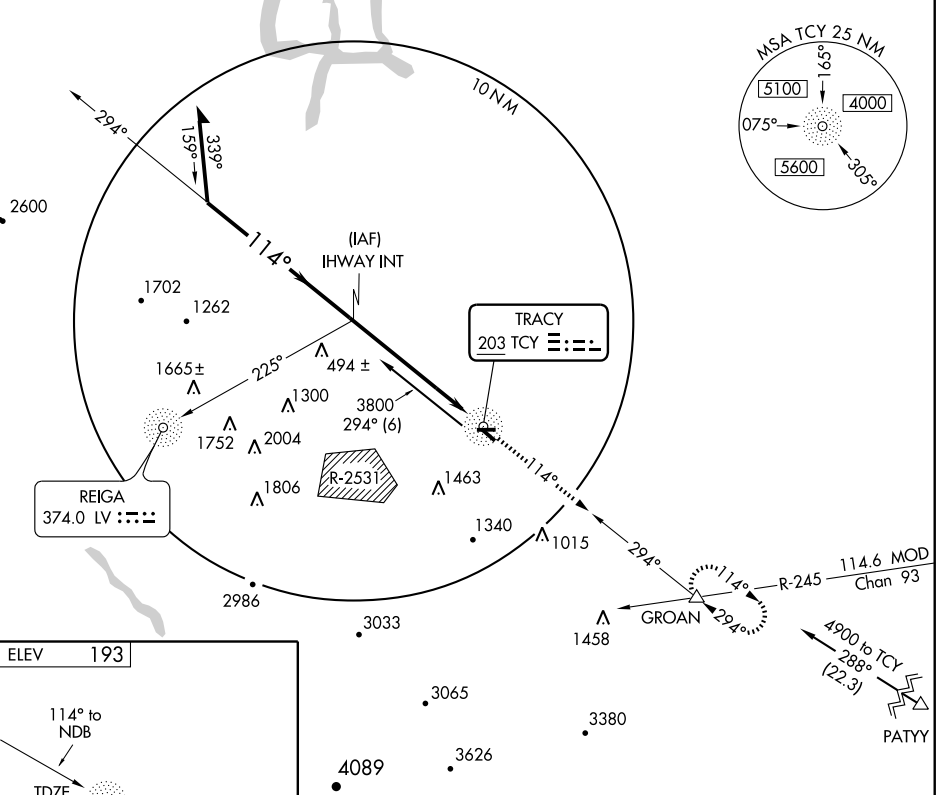
▼

NA

Circling NA southwest of Rwy 12-30.
When local altimeter setting not received use Stockton Metro
altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 3000 via 114° bearing
from TCY NDB to GROAN INT and hold.

AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF) ①
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Remain within 10 NM

IHWAY INT

3400

294°

114°

2300

3.27% TCH 40

NDB

6 NM

3000

GROAN

TCY 114°

CATEGORY	A	B	C	D
S-12	840-1 647 (700-1)		840-1¾ 647 (700-1¾)	NA
CIRCLING	840-1 647 (700-1)		840-1¾ 647 (700-1¾)	NA

WAAS CH 49200 W12A	APP CRS 116°	Rwy Idg TDZE Apt Elev	4001 193 193
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RNAV (GPS) RWY 12

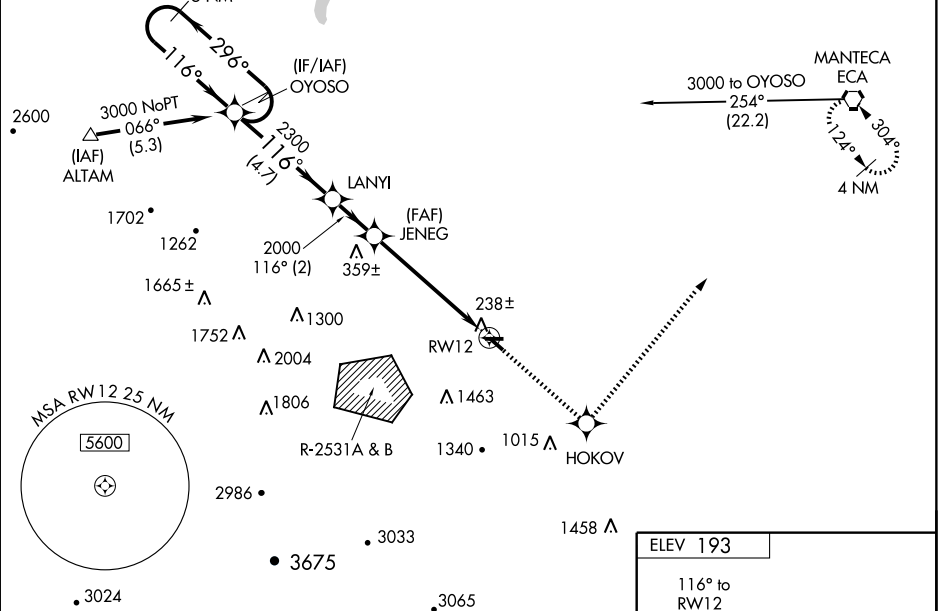
TRACY MUNI (TCY)

⚠ If local altimeter setting not received, use Stockton Metropolitan altimeter setting and increase all DAs/MDAs 60 feet.
⚠ NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 97°C (207°F).
W Baro-VNAV NA when using Stockton Metropolitan altimeter setting.
DME/DME RNP -0.3 NA. Circling NA southwest of Rwy 12-30.
Visibility reduction by helicopters NA.

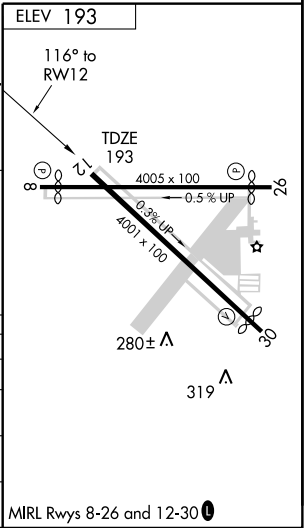
MISSED APPROACH: Climb to 3000 direct HOKOV and left turn via 024° track to ECA VORTAC and hold.

AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrivals at ALTAM via V28 southwest bound and arrivals at ECA VORTAC via V195 northeast bound.



CATEGORY	A	B	C	D
LPV DA	448-1	255 (300-1)		NA
LNAV/VNAV DA	656-1¾	463 (500-1¾)		NA
LNAV MDA	800-1	607 (700-1)	800-1¾ 607 (700-1¾)	NA
CIRCLING	800-1¾	607 (700-1¾)		NA



MIRL Rwy 8-26 and 12-30 **0**

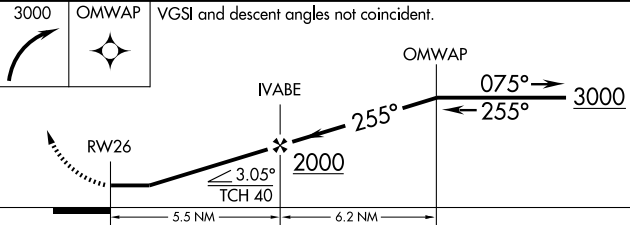
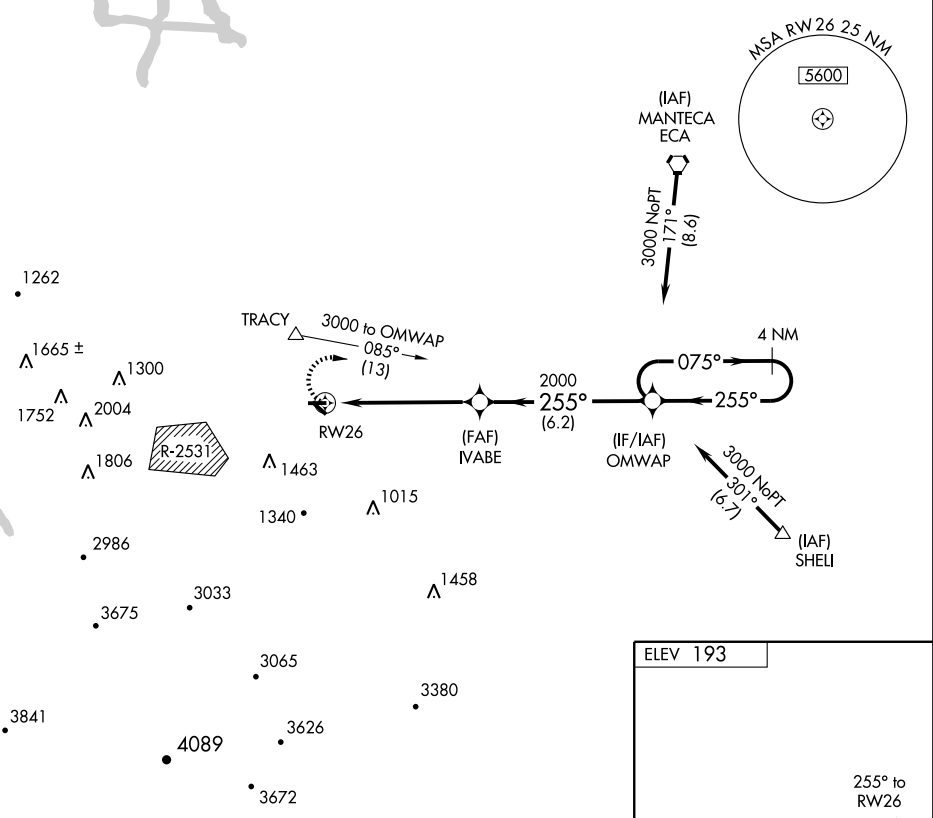
▼

▲ NA

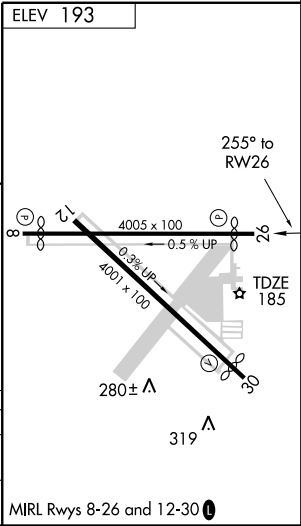
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received use Stockton Metropolitan altimeter setting and increase all MDA 60 feet. Circling NA Southwest of Rwy 12-30.

MISSED APPROACH: Climbing right turn to 3000 direct to OMWAP and hold.

AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	600-1 407 (500-1)	415 (500-1)	600-1¼ 415 (500-1¼)	NA
CIRCLING	600-1 407 (500-1)	660-1 467 (500-1)	660-1½ 467 (500-1½)	NA



MIRL Rwy 8-26 and 12-30 0

▼

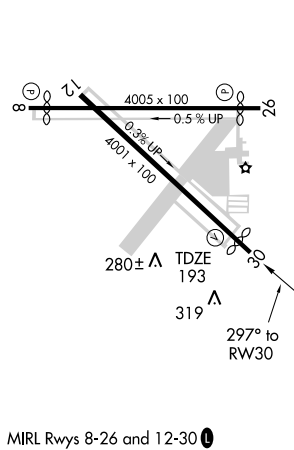
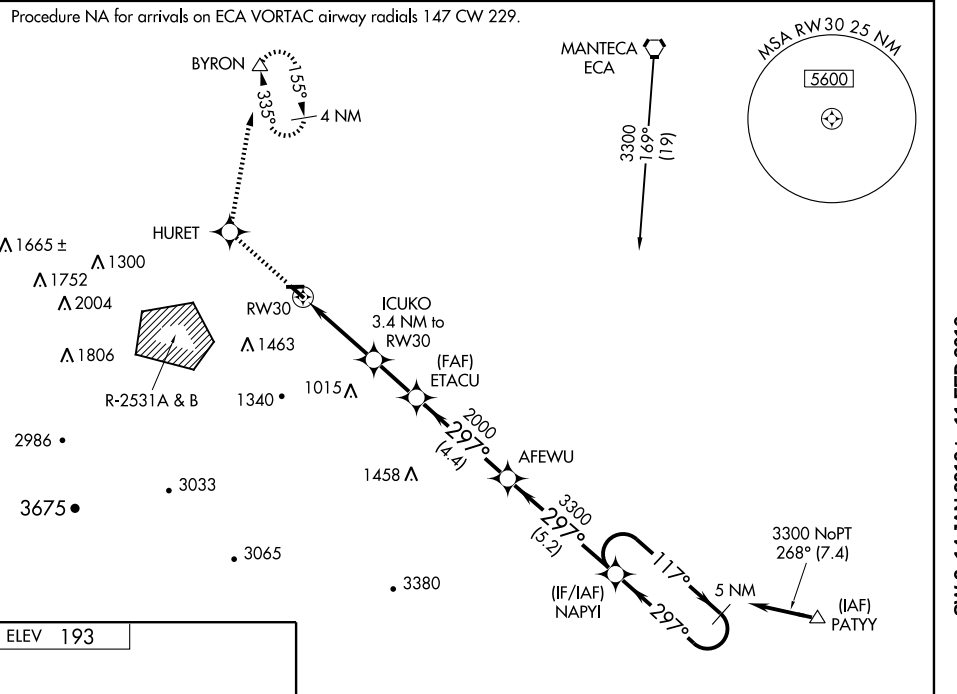
▲ NA

■

If local altimeter setting not received, use Stockton Metropolitan altimeter setting and increase all DAs/MDAs 60 feet.
Circling NA southwest of Rwy 12-30.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2300 direct HURET and via 355° track to BYRON and hold.

AWOS-3 118.375	NORCAL APP COM 123.85 278.3	UNICOM 122.8 (CTAF) 0
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2300	HURET	355° track	BYRON	VGSI and RNAV glidepath not coincident.	5 NM Holding Pattern
				AFEWU	NAPYI
*LNAV only	ICUKO 3.4 NM to RW30	ETACU			
	RW30	297°	3300	117°	3300
	3.4 NM	2.1 NM	4.4 NM	5.2 NM	
CATEGORY	A	B	C	D	
LPV DA	477-1	284 (300-1)		NA	
LNAV/VNAV DA		NA			
LNAV MDA	680-1	487 (500-1)	680-1¼ 487 (500-1¼)	NA	
CIRCLING	680-1	487 (500-1)	680-1½ 487 (500-1½)	NA	

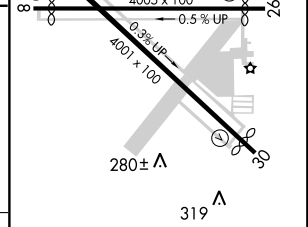
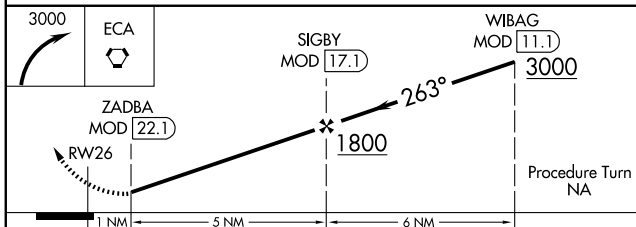
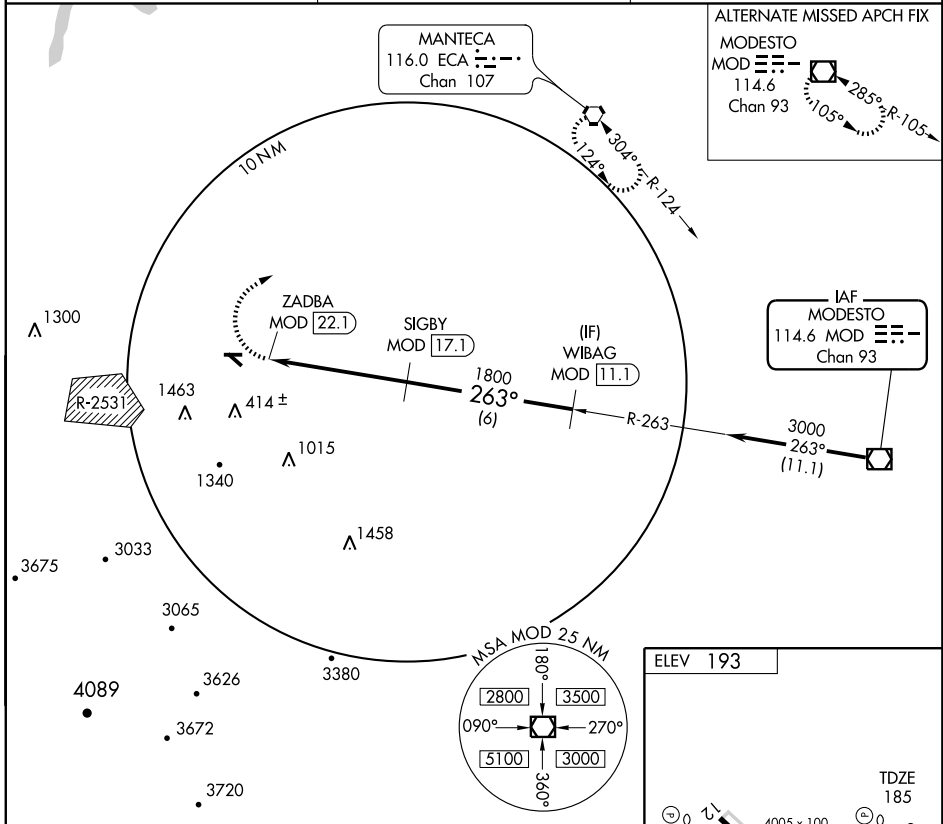
VOR/DME MOD 114.6 Chan 93	APP CRS 263°	Rwy Idg TDZE Apt Elev	3710 185 193
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VOR/DME RWY 26

TRACY MUNI (TCY)

Visibility reduction by helicopters NA. When local altimeter setting not received use Stockton Metro altimeter setting and increase all MDA 60 feet, increase S-26 Cat C visibility ¼ mile and Circling Cat C visibility ¼ mile. Circling NA Southwest of Rwy 12-30.	MISSED APPROACH: Climbing right turn to 3000 direct to ECA VORTAC and hold.
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AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-26	760-1¼	575 (600-1¼)	760-1½ 575 (600-1½)	NA
CIRCLING	760-1¼	567 (600-1¼)	760-1½ 567 (600-1½)	NA

MIRL Rwy 8-26 and 12-30

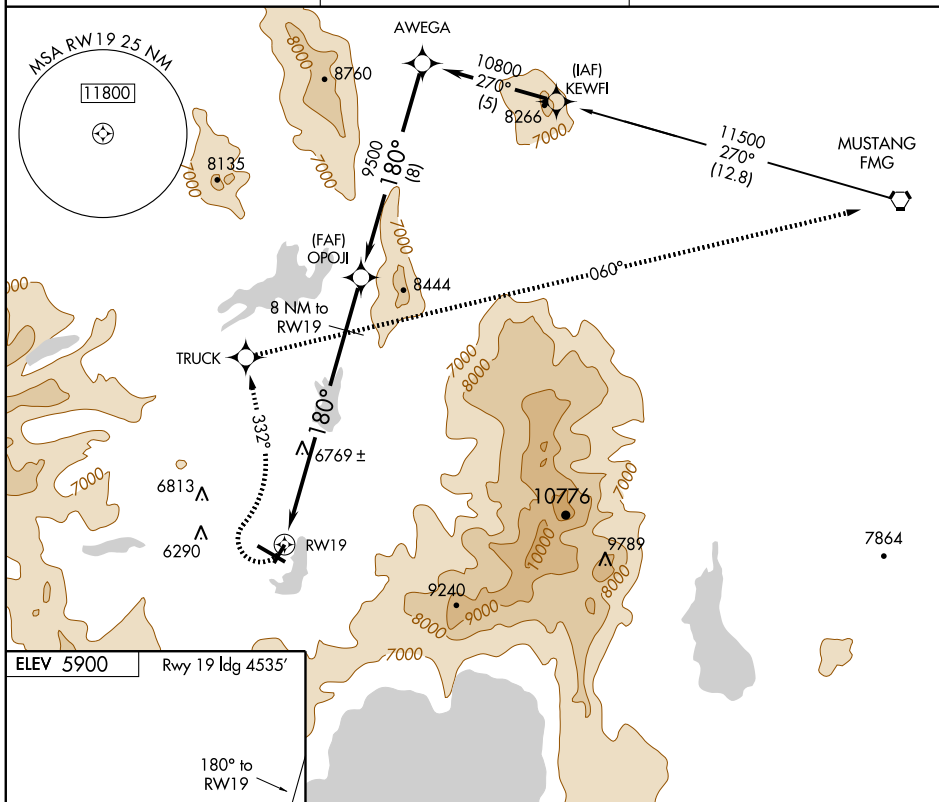
APP CRS	Rwy Idg	4535
180°	TDZE	5894
	Apt Elev	5900

MISSED APPROACH: Climbing right turn to 11 500 via 332° course to TRUCK WP then via 060° course to FMG VORTAC.

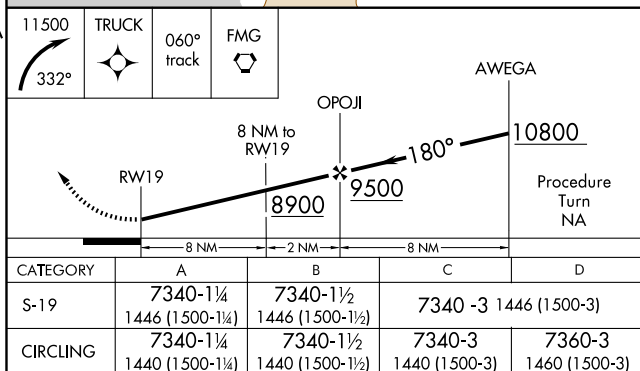
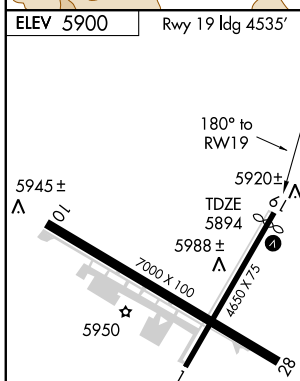
AWOS-3
118.0

OAKLAND CENTER
127.95 316.1

UNICOM
122.8 (CTAF) **L**



SW-2: 14 JAN 2010 to 11 FEB 2010



REIL Rwy 10
MIRL Rwys 10-28 and 1-19 **L**

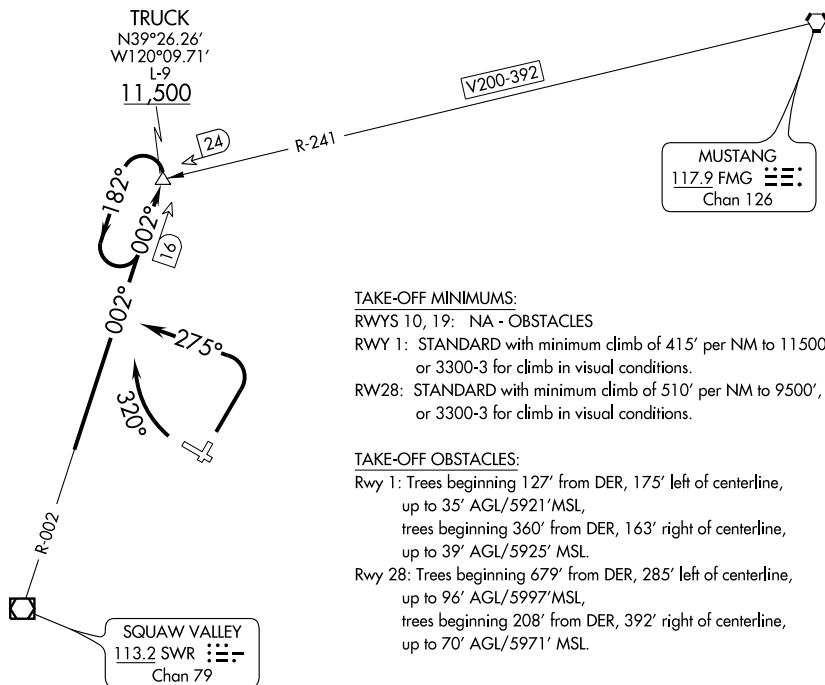
TRUCK THREE DEPARTURE (OBSTACLE)

OAKLAND CENTER

127.95 316.1

UNICOM 122.8 (CTAF)

AWOS-3 118.0



TAKE-OFF MINIMUMS:

RWYS 10, 19: NA - OBSTACLES

RWY 1: STANDARD with minimum climb of 415' per NM to 11,500',
or 3300-3 for climb in visual conditions.RWY 28: STANDARD with minimum climb of 510' per NM to 9,500',
or 3300-3 for climb in visual conditions.

TAKE-OFF OBSTACLES:

Rwy 1: Trees beginning 127' from DER, 175' left of centerline,
up to 35' AGL/5921' MSL,
trees beginning 360' from DER, 163' right of centerline,
up to 39' AGL/5925' MSL.Rwy 28: Trees beginning 679' from DER, 285' left of centerline,
up to 96' AGL/5997' MSL,
trees beginning 208' from DER, 392' right of centerline,
up to 70' AGL/5971' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climbing left turn to 11,500' via heading 275° and SWR R-002 to TRUCK INT, thence..., or, climb in visual conditions to cross Truckee-Tahoe Airport heading 290° at or above 9100', then proceed on SWR R-002 to TRUCK INT, thence...

TAKE-OFF RUNWAY 28: Climbing right turn to 11,500' via heading 320° and SWR R-002 to TRUCK INT, thence..., or, climb in visual conditions to cross Truckee-Tahoe Airport heading 290° at or above 9100', then proceed on SWR R-002 to TRUCK INT, thence...

...Cross TRUCK INT at or above 11,500'. If required, continue climb-in-TRUCK INT holding pattern to cross TRUCK INT at or above 11,500'.

VOR/DME SWR 113.2 Chan 79	APP CRS 104°	Rwy Idg TDZE Apt Elev 5900	N/A N/A 5900
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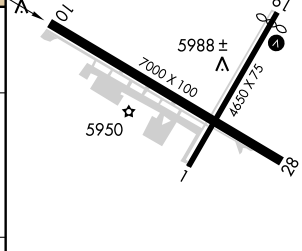
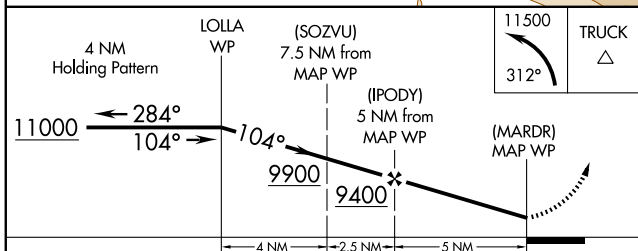
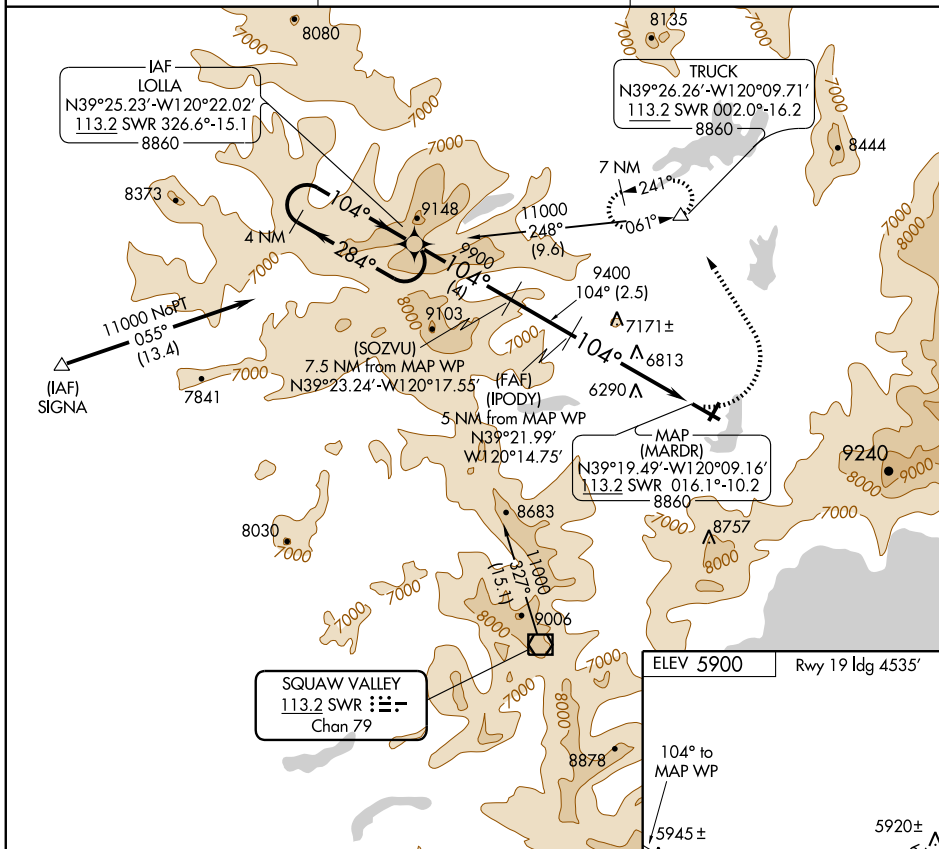
VOR/DME RNAV or GPS-A

TRUCKEE-TAHOE (TRK)

▼ If local altimeter setting not received, procedure not authorized.
▲ NA

MISSED APPROACH: Climbing left turn to 11500 via track 312° to TRUCK WP and hold.

AWOS-3 118.0	OAKLAND CENTER 127.95 316.1	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	8200-1¼ 2300 (2300-1¼)	8200-1½ 2300 (2300-1½)	8200-3	2300 (2300-3)

REIL Rwy 10
MIRL Rwy 10-28 and 1-19 0

VOR/DME VIS	APP CRS	Rwy Idg	3914
109.4	133°	TDZE	271
Chan 31		Apt Elev	271

▼

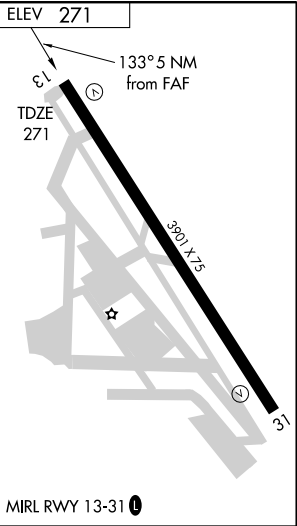
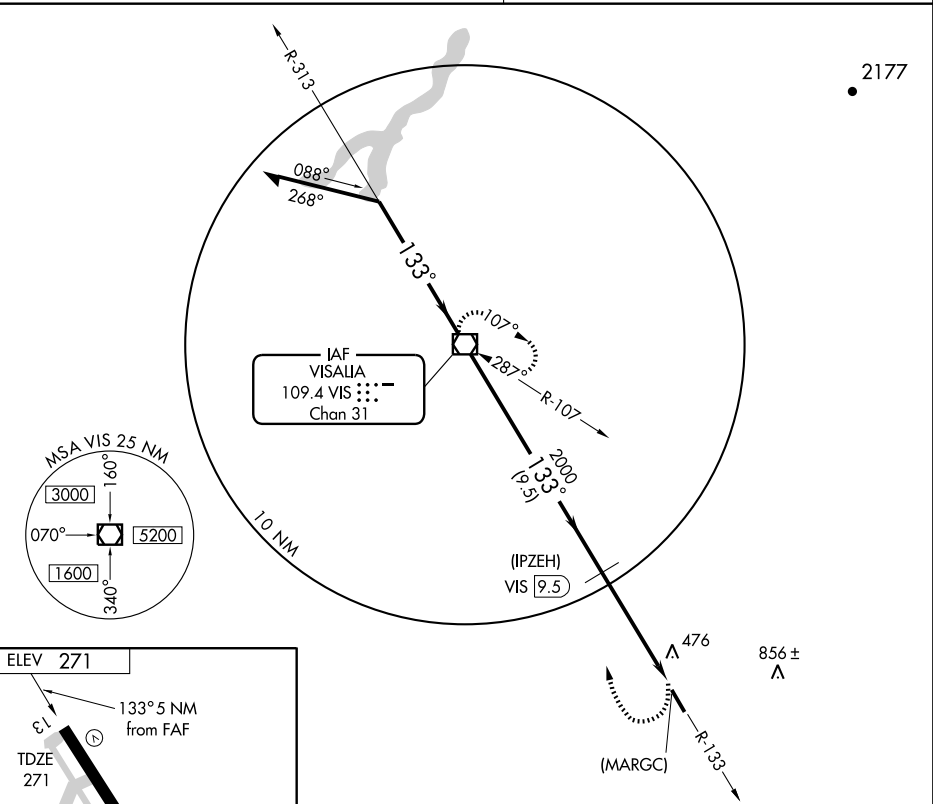
Use Visalia altimeter, if not received, use Fresno Air Terminal altimeter setting and increase all MDAs 200 feet.

▲

NA

MISSED APPROACH: Climbing right turn to 2000 direct VIS VOR/DME and hold.

FRESNO APP CON	UNICOM
118.5 268.7	122.7 (CTAF) 



Remain within 10 NM			
2000 313° 133° 2000 2000 133° 2000 133°			
9.5 NM 5 NM			
CATEGORY	A	B	C
S-13	920-1 649 (700-1)	920-1½ 649 (700-1½)	NA
CIRCLING	920-1 649 (700-1)	920-1½ 649 (700-1½)	NA

34°19'N

VAR 12.50F

FUEL

34°18'N

M31 GEAR 2

8015

HDG 140°
ARM/DE-ARM
/ EAST

LZ WHITE RHINO
(UAS/COPTER)

UAS HANGER

RWY 10-28
S80, T180, ST175
TT 320, TDT 850, TRT 520

HDG 140° LZ RED
ARM/DE-ARM
LZ GUNFIGHTER

ELEV
2018

116°09'W

34°17'N

TWENTYNINE PALMS, CALIFORNIA

CACTI-FIVE DEPARTURE (CACTI5 • TNP)

TWENTYNINE PALMS, CALIFORNIA

SHL-3160 [USN]

ATIS 386.35
GND CON
363.35 41.7
TWENTYNINE PALMS TOWER
135.525 340.2
LOS ANGELES CENTER
128.15 285.6

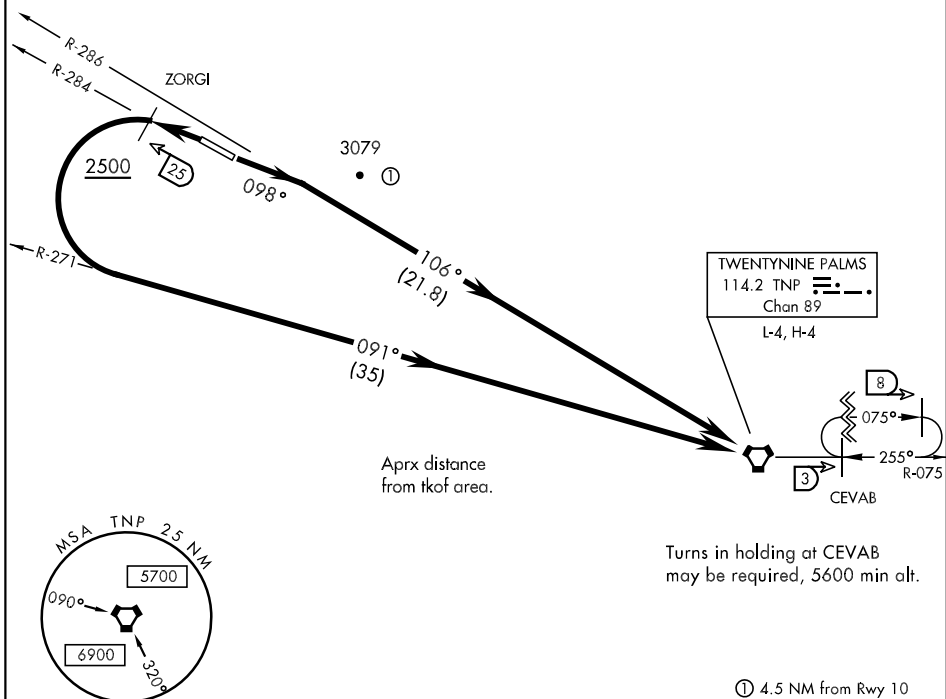
Rwy	Knots	60	120	180	240	300	360
* 10 (A)	V/V(fpm)	285	570	855	1140	1425	1710
** 10 (B)	V/V(fpm)	315	630	945	1260	1575	1890
† 28 (C)	V/V(fpm)	235	470	705	940	1175	1410

* Minimum ** Civil minimum † ATC Climb Rate

(A) to 3300

(B) to 3400

(C) to 2500



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 10: Climb via heading 098° to intercept and proceed via TNP VORTAC R-286 to TNP.

TAKE-OFF RWY 28: Climb via TNP VORTAC R-284 to cross ZORGI at or above 2500. Then turn left to join and proceed via TNP R-271 to TNP.

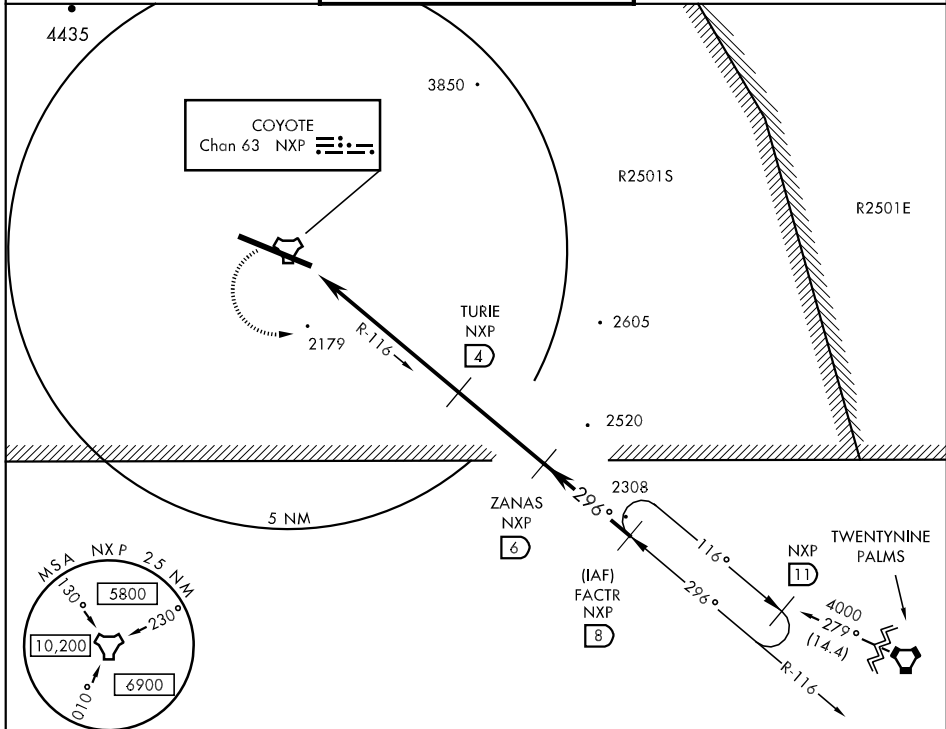
TACAN NXP Chan 63	APCH CRS 296°	Rwy Idg TDZE Arpt Elev 8015 2022 2051
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AL-3160 USNJ

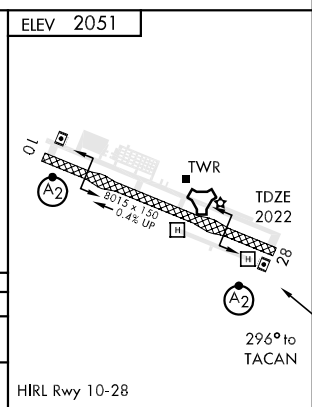
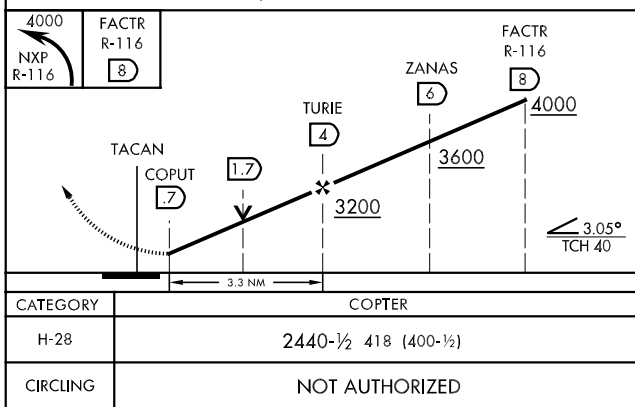
TWENTYNINE PALMS SELF (KNXP)

V	SALSF A2	MISSED APPROACH: Climbing left turn to 4000 via NXP TACAN R-116 to FACTR and hold.
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ATIS 386.35	TWENTYNINE PALMS TOWER 135.525 340.2	GND CON 363.35 41.7
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EMERG SAFE ALT 100 NM 13,600



TACAN NXP Chan 63	APCH CRS 286°	Rwy Idg 8015 TDZE 2022 Arpt Elev 2051
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JAL-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

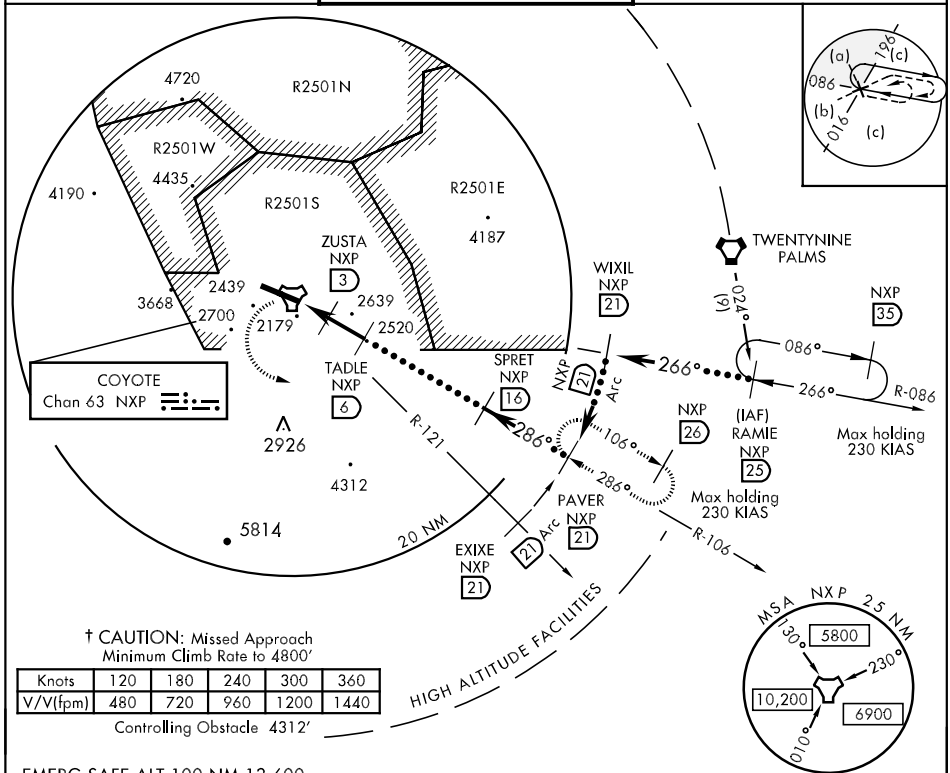
T * When ALS inop, increase vis CAT CD to 1 ¼ miles, CAT E vis to 1½ miles.
** Circling not authorized N of Rwy 10-28.

SALSF

† MISSED APPROACH: Climbing left turn to 6000 via NXP TACAN R-121 to EXIXE. Then Arc SE of NXP TACAN via NXP 21 DME Arc to PAVER and hold.

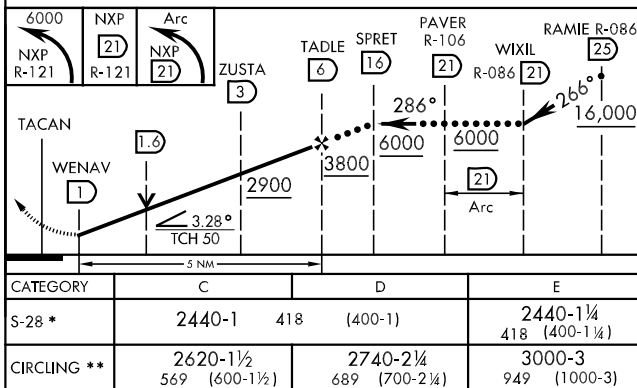
ATIS 386.35	PALMS TOWER 135.525 340.2	GND CON 363.35 41.7
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Knots	120	180	240	300	360
V/V(fpm)	480	720	960	1200	1440

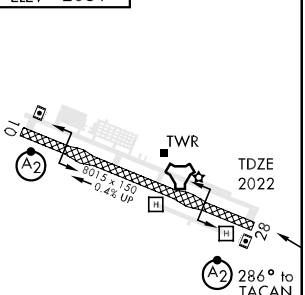
Controlling Obstacle 4312

EMERG SAFE ALT 100 NM 13.600



CATEGORY	C	D	E
S-28 *	2440-1 418	(400-1)	2440-1½ 418 (400-1½)
CIRCLING **	2620-1½ 569 (600-1½)	2740-2½ 689 (700-2½)	3000-3 949 (1000-3)

FLFV 2051



TWENTYNINE PALMS, CALIFORNIA

34°17'N-116°10'W

TWENTYNINE PALMS SELF (KNXP)

08353

SW-3, 14 JAN 2010 to 11 FEB 2010

VOR/DME TNP 114.2 Chan 89	APCH CRS 285°	Rwy Idg 8015 TDZE 2022 Arpt Elev 2051
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JAL-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

T * When ALS inop, increase vis CAT CDE to 3 miles.

SALSF

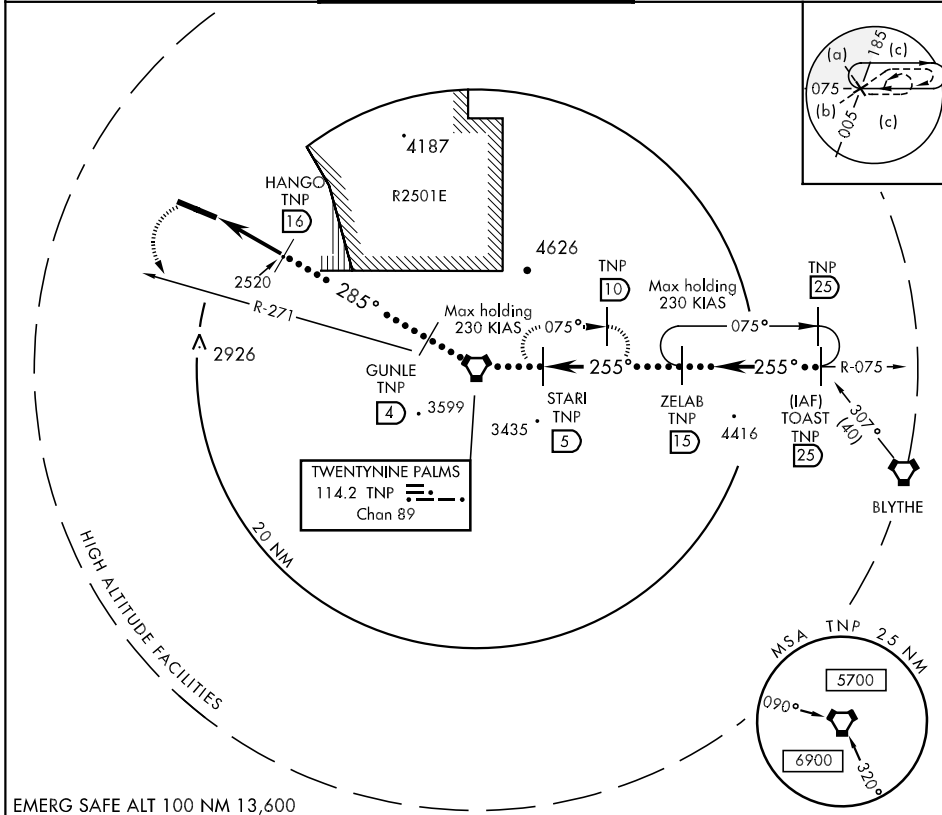
MISSED APPROACH: Climbing left turn to 6000 via TNP VORTAC R-271 direct TNP. Then via TNP R-075 to STARI and hold.

** Circling not authorized N of Rwy 10-28.

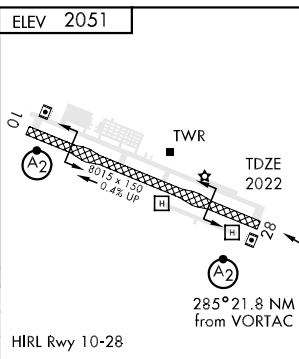
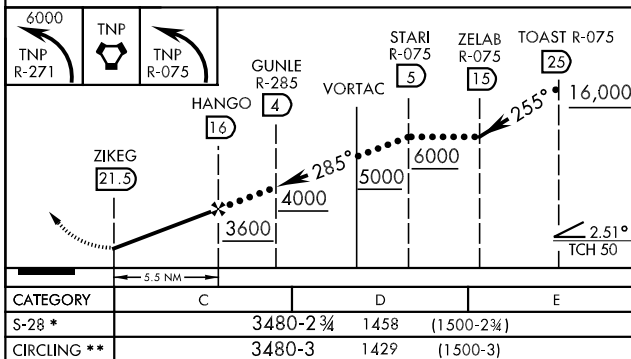
ATIS
386.35

PALMS TOWER
135.525 340.2

GND CON
363.35 41.7



EMERG SAFE ALT 100 NM 13,600



TWENTYNINE PALMS, CALIFORNIA

34° 17' N-116° 10' W

TWENTYNINE PALMS SELF (KNXP)

08353

TACAN NXP Chan 63	APCH CRS 286°	Rwy Idg TDZE Arpt Elev 8015 2022 2051
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AL-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

- * When ALS inop, increase vis CAT AB to 1 mile, CAT CD to 1¼ miles.
 ** Circling not authorized N of Rwy 10-28.



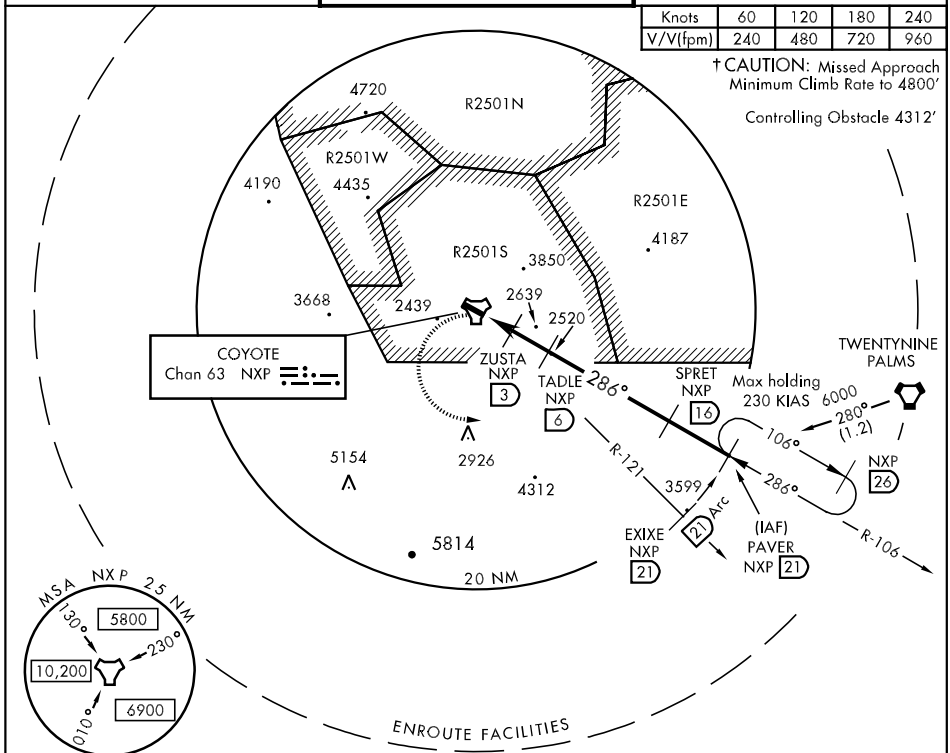
† MISSED APPROACH: Climbing left turn to 6000 via NXP TACAN R-121 to EXIXE. Then Arc SE of NXP via NXP 21 DME Arc to PAVER and hold.

ATIS 386.35	TWENTYNINE PALMS TOWER 135.525 340.2	GND CON 363.35 41.7
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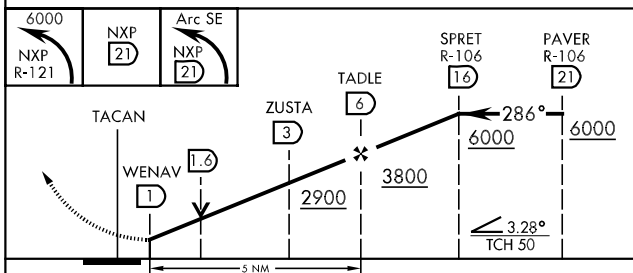
Knots	60	120	180	240
V/V(fpm)	240	480	720	960

† CAUTION: Missed Approach
 Minimum Climb Rate to 4800'

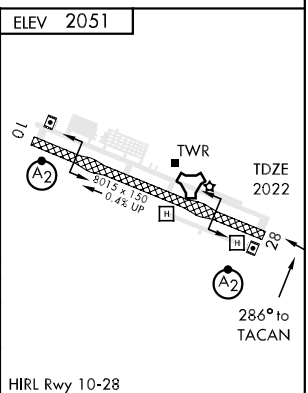
Controlling Obstacle 4312'



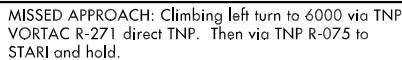
EMERG SAFE ALT 100 NM 13,600



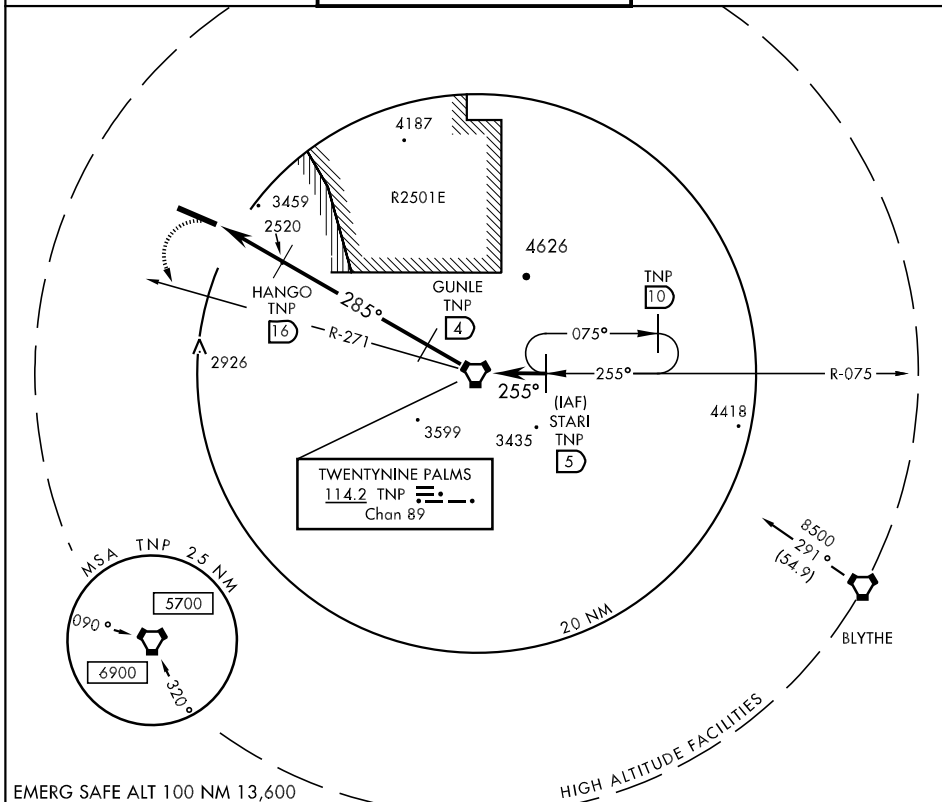
CATEGORY	A	B	C	D
S-28 *	2440-¾ 418 (400-¾)	2440-1 418 (400-1)		
CIRCLING **	2580-1 529 (600-1)	2620-1½ 569 (600-1½)	2740-2¼ 689 (700-2¼)	



TWENTYNINE PALMS SELF (KNXP)

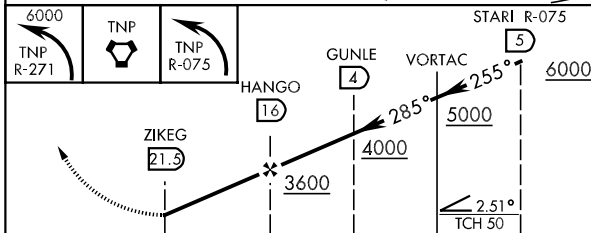


GND CON
363.35 41.7

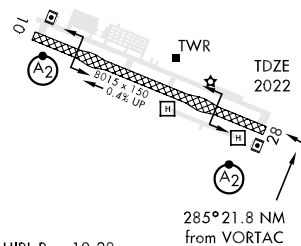


EMERG SAFE ALT 100 NM 13,600

HIGH ALTITUDE FACILITIES



ELEV 2051



285°21.8 NM
from VORTAC

HIRL Rwy 10-28

CATEGORY	A	B	C	D
S-28 *	3480-1 1458 (1500-1)	3480-1½ 1458 (1500-1½)	3480-2¾	1458 (1500-2¾)
CIRCLING **	3480-1½ 1429 (1500-1½)	3480-1½ 1429 (1500-1½)	3480-3	1429 (1500-3)

TWENTYNINE PALMS SELF (KNXP)

08353

APP CRS
262°

Rwy Idg
5531

TDZE
1835

Apt Elev
1888

RNAV (GPS) RWY 26

TWENTYNINE PALMS (TNP)

▼

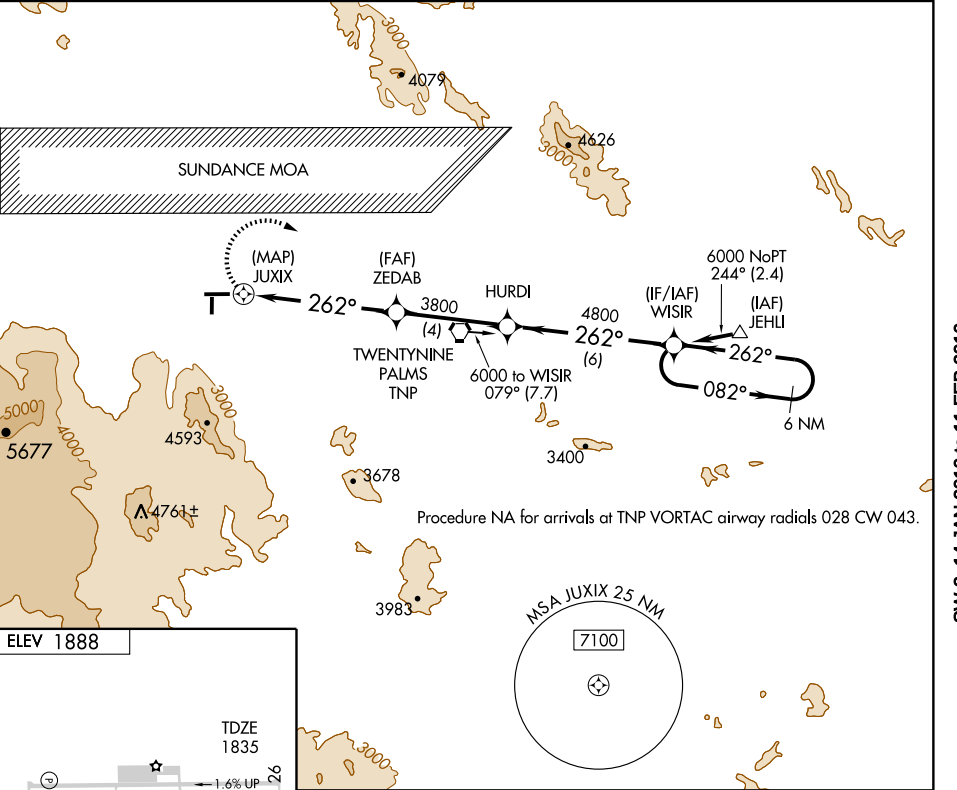
▲ NA

When Palm Springs Intl altimeter setting not received, procedure NA.
Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.
Use Palm Springs Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 6000 direct WISIR and hold.

LOS ANGELES CENTER
128.15 285.6

UNICOM
122.8 (CTAF) 0



ELEV 1888

TDZE 1835

5531 X 75

1.6% UP

1919±

3797 X 50

0.9% UP

35

REIL Rwy 8 and 26 0

MIRL Rwy 8-26 and 17-35 0

6000

WISIR

6 NM Holding Pattern

082°

262°

6000

4800

3800

3.10° TCH 40

0.5

5.5 NM

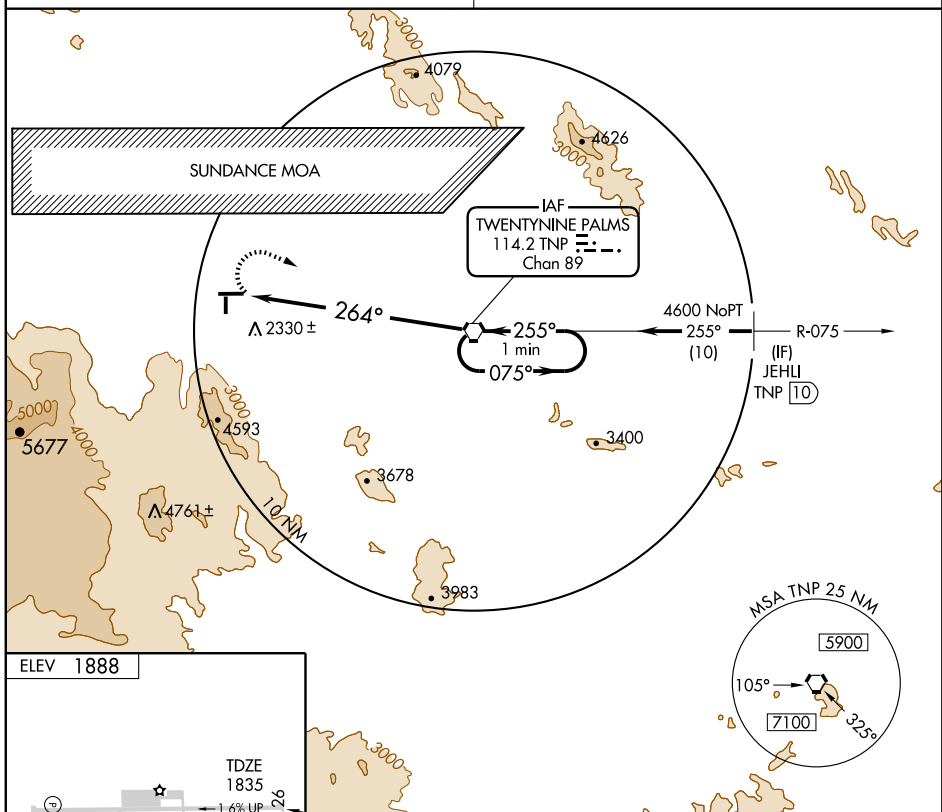
4 NM

6 NM

CATEGORY	A	B	C	D
LNNAV MDA	3040-1¼ 1205 (1200-1¼)	3040-1½ 1205 (1200-1½)	NA	
CIRCLING	3240-1¼ 1352 (1400-1¼)	3240-1½ 1352 (1400-1½)	NA	

VOR RWY 26
TWENTYNINE PALMS (TNP)

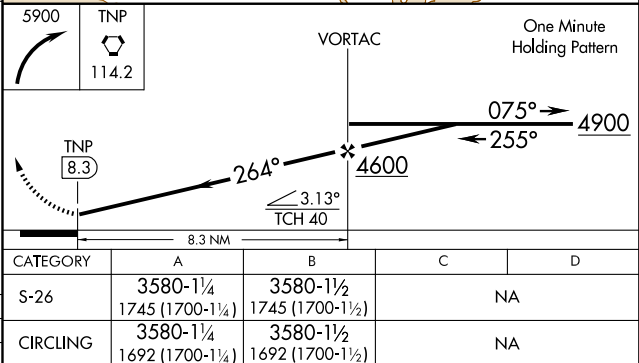
MISSED APPROACH: Climbing right turn to 5900 direct TNP VORTAC and hold, continue climb-in-hold to 5900.

UN|COM
122.8 (CTAF) **L**[illegible]

MIRL Rwy 8-26 and 17-35 L

FAF to MAP 8.3 NM

Knots	60	90	120	150	180
Min:Sec	8:18	5:32	4:09	3:19	2:46



LOC/DME I-UKI 109.1 Chan 28	APP CRS 151°	Rwy Idg 4415 TDZE 614 Apt Elev 614
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LOC RWY 15
UKIAH MUNI (UKI)



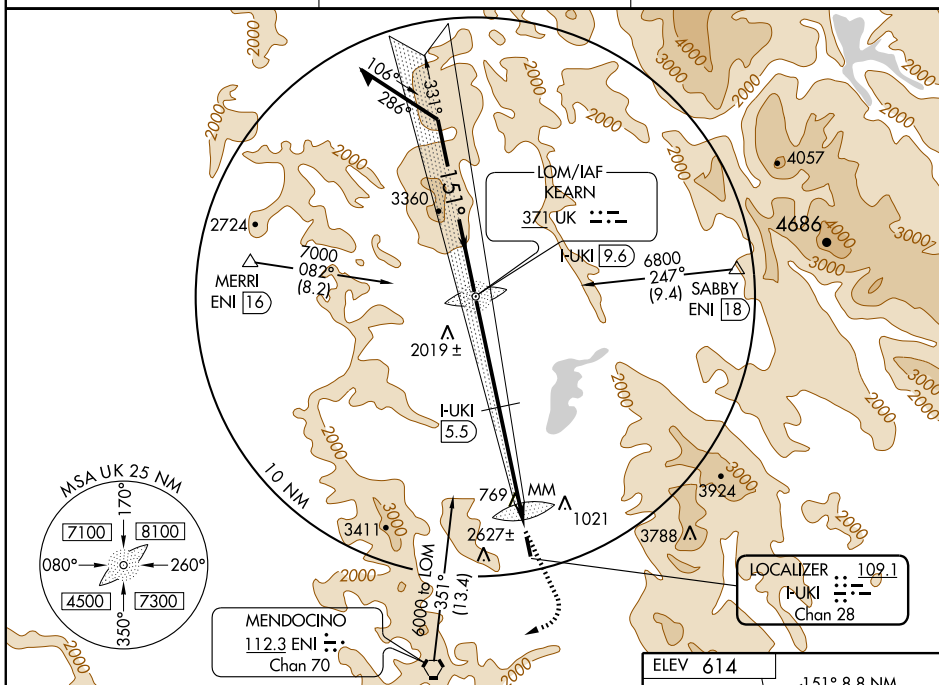
Circling NA west of Rwy 15-33.

MISSED APPROACH: Climbing left turn to 4000 via heading 140°, then climbing right turn to 6000 direct ENI VORTAC.

ASOS
119.275

OAKLAND CENTER
127.8 353.5

UNICOM
123.0 (CTAF) **L**

[illegible]

CATEGORY	A	B	C	D
S-15	2400-1¼ 1786 (1800-1¼)	2400-1½ 1786 (1800-1½)	2400-3	1786 (1800-3)
CIRCLING	2400-1¼ 1786 (1800-1¼)	2400-1½ 1786 (1800-1½)	2400-3	1786 (1800-3)
DME MINIMUMS				
S-15	1720-1¼ 1106 (1200-1¼)	1720-1½ 1106 (1200-1½)	1720-3	1106 (1200-3)
CIRCLING	1720-1¼ 1106 (1200-1¼)	1720-1½ 1106 (1200-1½)	1720-3	1106 (1200-3)

ELEV 614

151° 8.8 NM from FAF

693 ±

TDZE 614

44.5 x 1.50

0.3% UP

33

654 ±

MIRL Rwy 15-33

REIL Rwy 15 and 33

FAF to MAP 7.7 NM					
Knots	60	90	120	150	180
Min:Sec	7:42	5:08	3:51	3:05	2:34

APP CRS	Rwy Idg	N/A
331°	TDZE	N/A
	Apt Elev	614

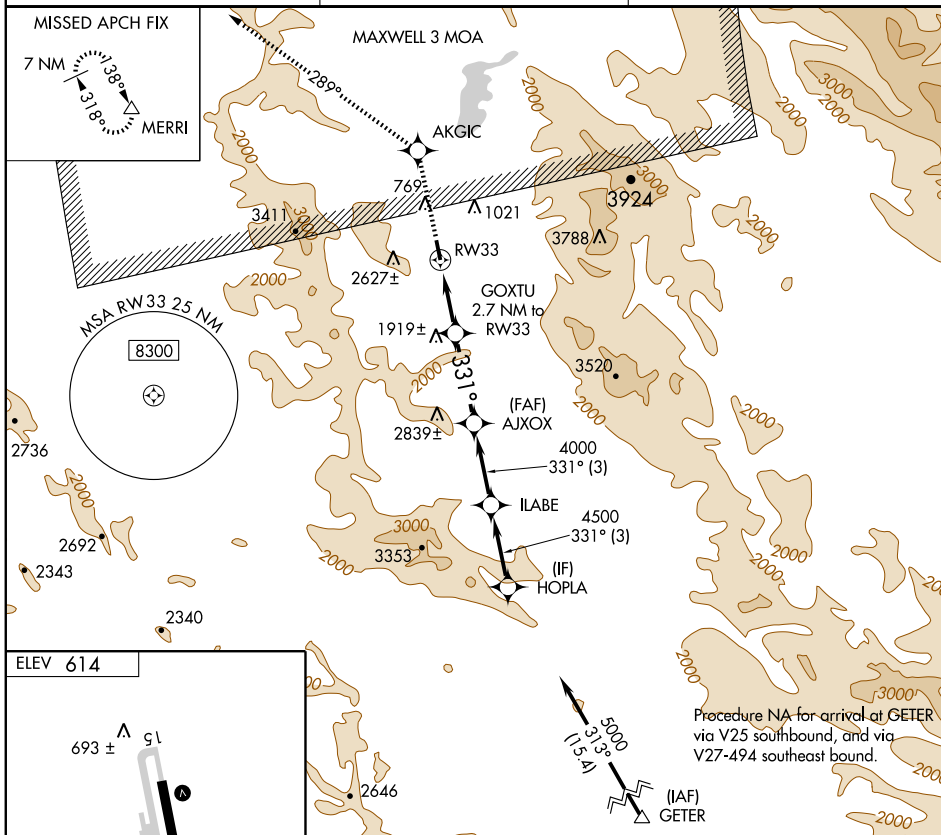
RNAV (GPS) -B

UKIAH MUNI (UKI)

▼ Circling NA west of Rwy 15-33. DME/DME RNP- 0.3 NA.
▲ When local alimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6700 direct
 AKGIC and via track 289° to MERRI and
 hold, continue climb-in-hold to 6700.

ASOS 119.275	OAKLAND CENTER 127.8 353.5	UNICOM 123.0 (CTAF) 0
------------------------	--------------------------------------	---------------------------------



6700	AKGIC	trk 289°	MERRI	HOPLA
↑	✦		△	
GOXTU 2.7 NM to RW33				
RW33 $\triangleleft$ 7.49° TCH 40				
AJAX				
ILABE				
HOPLA				
331° 5000				
4000				
4500				
2800				
2.7 NM 3.3 NM 3 NM				
CATEGORY	A	B	C	D
CIRCLING	2540-1¼ 1926 (2000-1¼)	2540-1½ 1926 (2000-1½)	2540-3	1926 (2000-3)

VORTAC ENI 112.3 Chan 70	APP CRS 022°	Rwy Idg TDZE Apt Elev N/A N/A 614
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VOR-A

UKIAH MUNI (UKI)

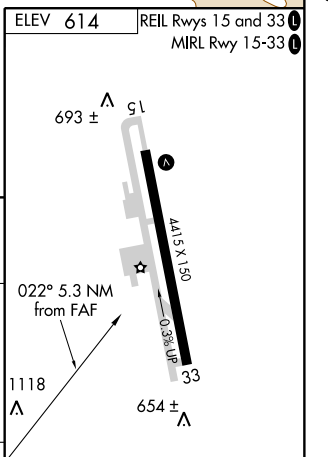
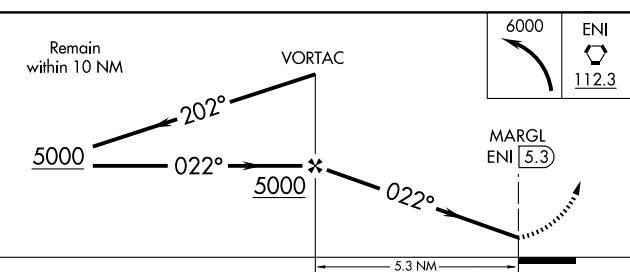
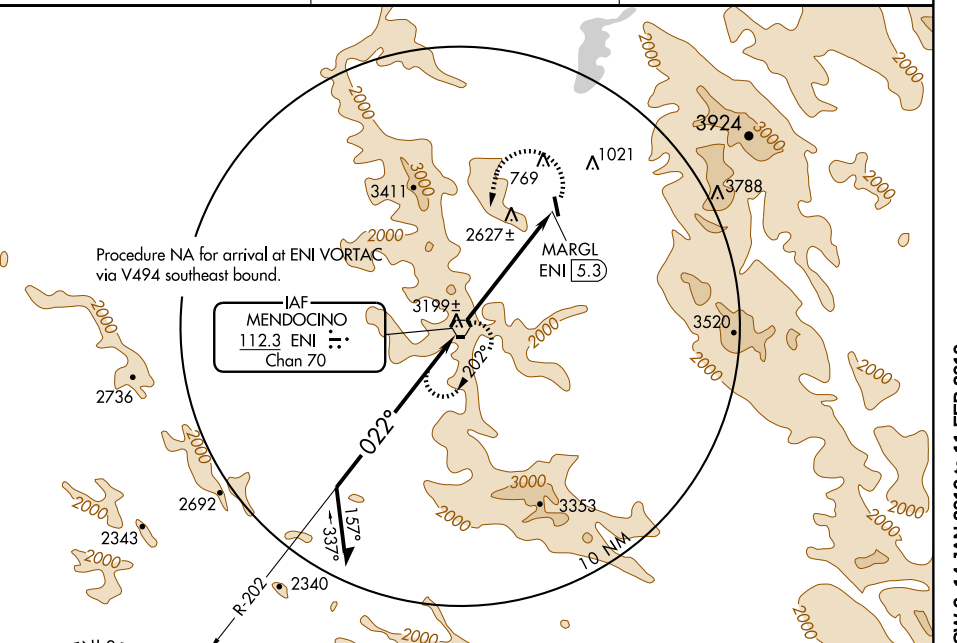
▼

▲

Circling NA west of Rwy 15-33.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 6000 direct ENI VORTAC and hold, continue climb-in-hold to 6000.

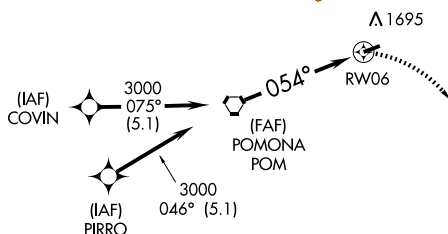
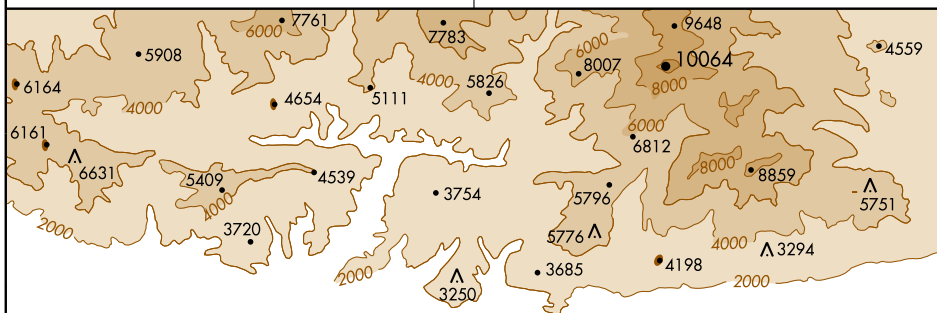
ASOS 119.275	OAKLAND CENTER 127.8 353.5	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 5.3 NM					
CIRCLING	3400-1¼ 2786 (2800-1¼)	3400-1½ 2786 (2800-1½)	3400-3	2786 (2800-3)	Knots	60	90	120	150	180
					Min:Sec	5:18	3:32	2:39	2:07	1:46

MISSED APPROACH: Climbing right turn to 4000 direct PDZ VORTAC and hold.

UNICOM
123.0 (CTAF) **L**



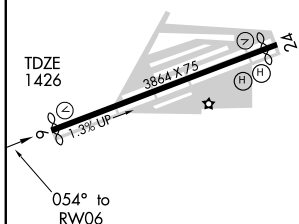
MSA RW06 25 NM

11100

4 NM

PARADISE
PD7

ELEV 1439



VORTAC

VGS1 and descent angles not coincident.

4000

PDZ

300
Procedure
Turn
NA

054

RW06

2.93°
TCH 40

— 5 NM

CATEGORY	A	B	C	D
S-6	1980-1	554 (600-1)	1980-1½ 554 (600-1½)	NA
CIRCLING	1980-1	541 (600-1)	1980-1½ 541 (600-1½)	NA

SW-3, 14 JAN 2010 to 11 FEB 2010

MIRL Rwy 6-24 **L**

NA

Circling NA north of Rwy 6-24.
Use Ontario altimeter setting.

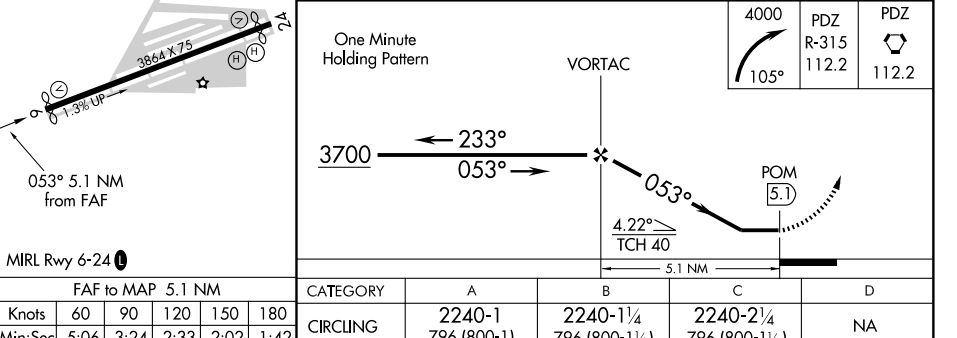
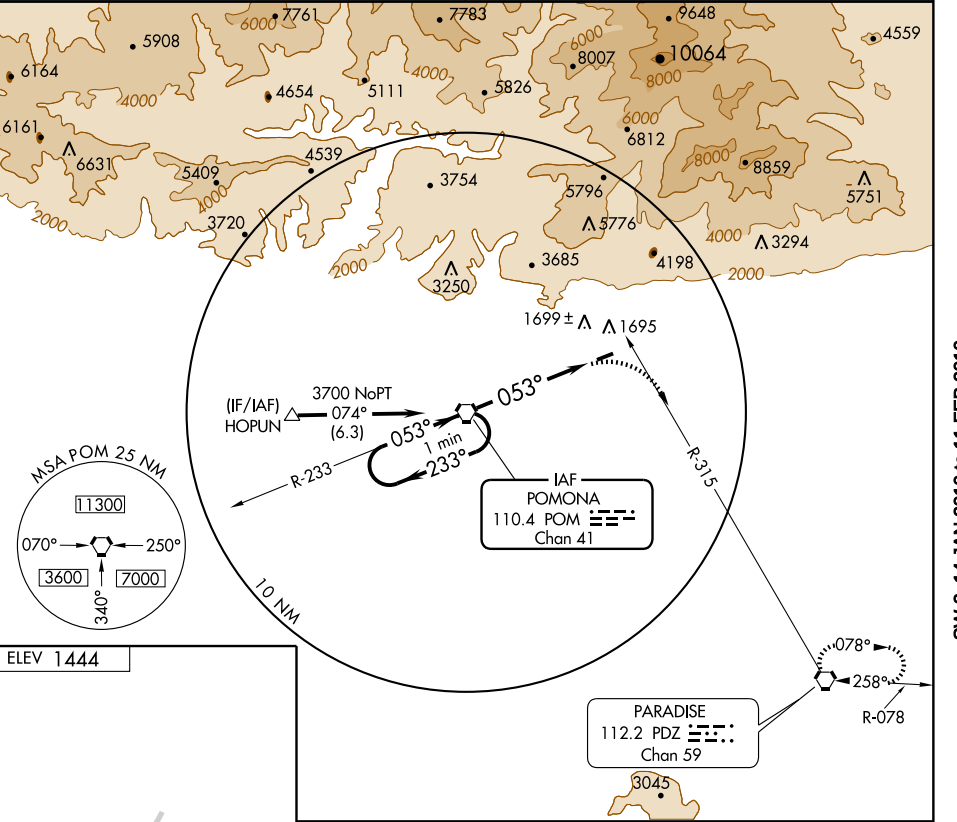
MISSED APPROACH: Climbing right turn to 4000 via heading 105° and PDZ R-315 to PDZ VORTAC and hold.

SOCAL APP CON

125.5 349.0

UNICOM

123.0 (CTAF)



▼

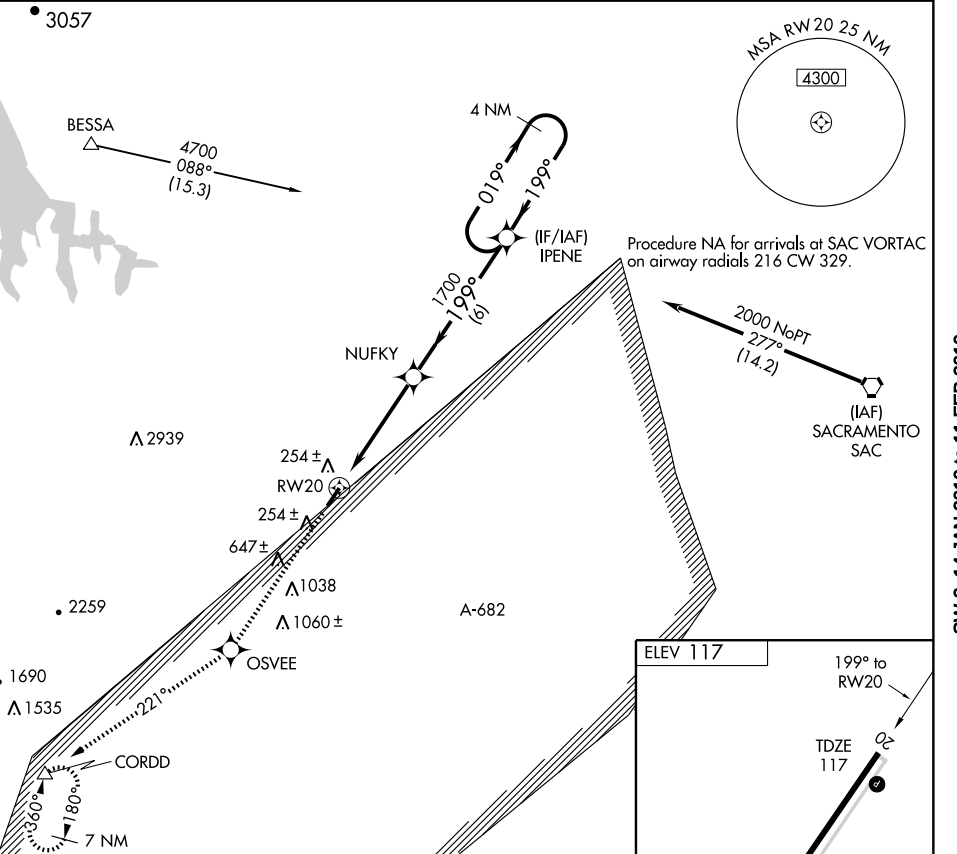
▲

W

DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Davis University
altimeter setting and increase DA to 650 feet.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6200 direct OSVEE and
via 221° track to CORDD and hold, continue climb-in-
hold to 6200.

ASOS 134.75	TRAVIS APP CON 128.4 291.0	UNICOM 122.7 (CTAF) 0
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6200	OSVEE	221° track	CORDD	VGSI and RNAV glidepath not coincident.			
↑	✧		△	IPENE	4 NM Holding Pattern		
				NUFKY	1700	019° → 2000	
				RW20	1700	← 199°	GS 3.00° TCH 40
				4.8 NM	6 NM		
CATEGORY	A	B	C	D			
LPV DA	614-1¾ 497 (500-1¾)						

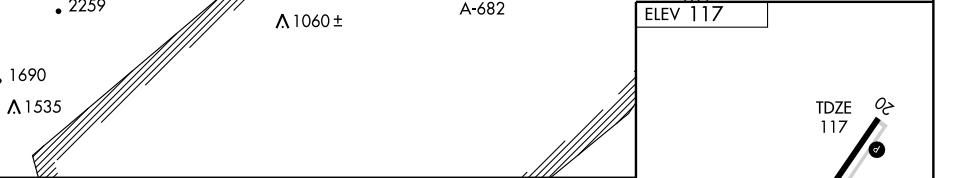
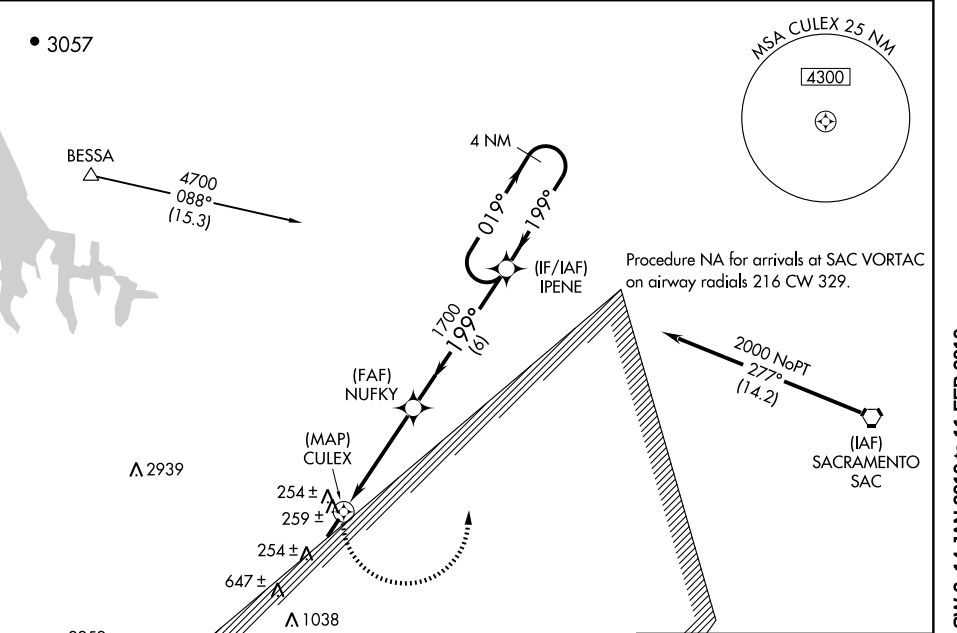
SW-2, 14 JAN 2010 to 11 FEB 2010

⚠

Circling NA west of Rwy 2-20. DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Davis University
altimeter setting and increase all MDAs 40 feet.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 2000 direct
IPENE and hold.

ASOS 134.75	TRAVIS APP CON 128.4 291.0	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	520-1	403 (500-1)	520-1¼ 403 (500-1¼)	NA
CIRCLING	560-1 443 (500-1)	580-1 463 (500-1)	580-1½ 463 (500-1½)	NA

MIRL Rwy 2-20 0

REIL Rws 2 and 20 0

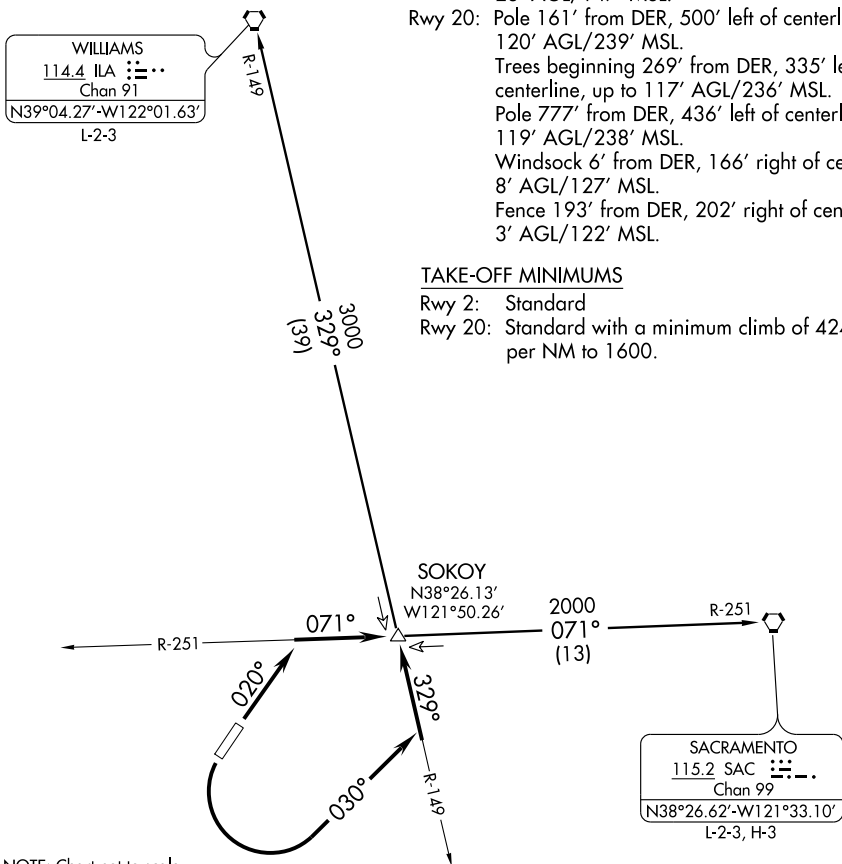
TRAVIS DEP CON
128.4 291.0

TAKE-OFF OBSTACLE NOTES

- Rwy 2: Trees beginning 222' from DER, 514' left of centerline, up to 106' AGL/225' MSL.
Light pole 337' from DER, 534' left of centerline, 28' AGL/147' MSL.
- Rwy 20: Pole 161' from DER, 500' left of centerline, 120' AGL/239' MSL.
Trees beginning 269' from DER, 335' left of centerline, up to 117' AGL/236' MSL.
Pole 777' from DER, 436' left of centerline, 119' AGL/238' MSL.
Windsock 6' from DER, 166' right of centerline, 8' AGL/127' MSL.
Fence 193' from DER, 202' right of centerline, 3' AGL/122' MSL.

TAKE-OFF MINIMUMS

- Rwy 2: Standard
- Rwy 20: Standard with a minimum climb of 424' per NM to 1600.



SW-2, 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climb via heading 020°, intercept SAC R-251 to SOKOY INT/ SAC 13 DME.

TAKE-OFF RUNWAY 20: Turn left heading 030°, intercept ILA R-149 to SOKOY INT/ ILA 39 DME.

SACRAMENTO TRANSITION (SOKOY2.SAC): From over SOKOY INT via SAC R-251 to SAC VORTAC.

WILLIAMS TRANSITION (SOKOY2.ILA): From over SOKOY INT via ILA R-149 to ILA VORTAC.

VORTAC SAC 115.2 Chan 99	APP CRS 241°	Rwy Idg TDZE Apt Elev N/A N/A 117
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VOR/DME-A

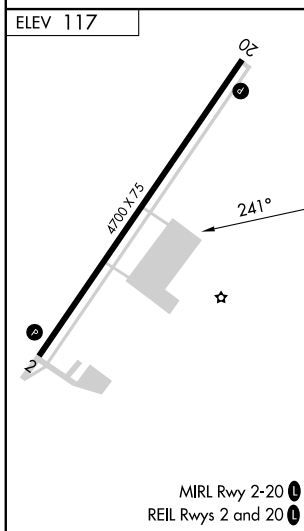
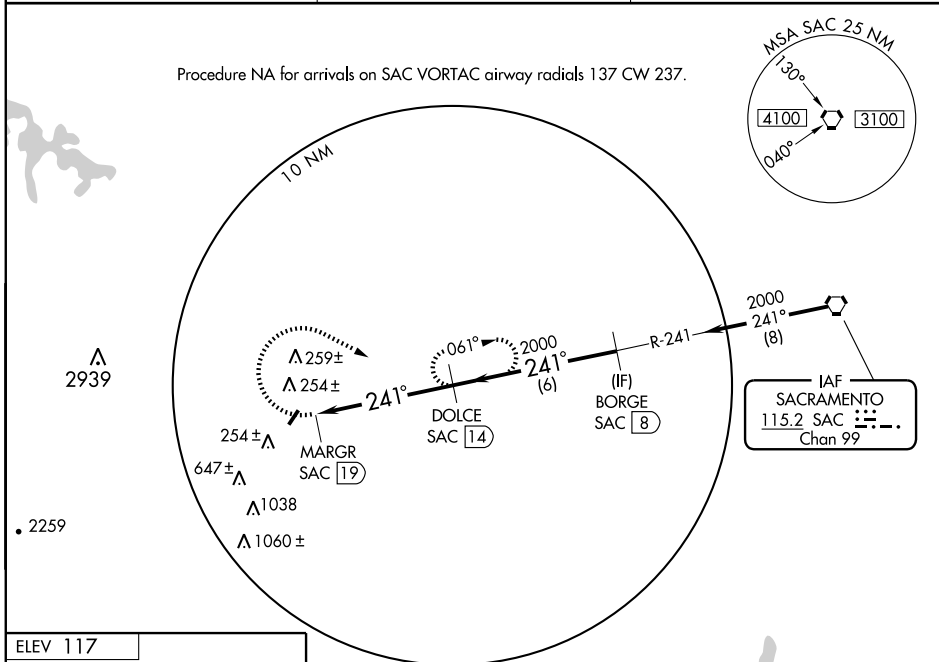
VACAVILLE/NUT TREE (VCB)

T Circling NA west of Rwy 2-20.
A When local altimeter setting not received, use Travis AFB altimeter setting and increase all MDA 40 feet and Cat C visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 2000 via heading 100° and SAC R-241 to DOLCE/14 DME and hold.

ASOS 134.75	TRAVIS APP CON 128.4 291.0	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals on SAC VORTAC airway radials 137 CW 237.

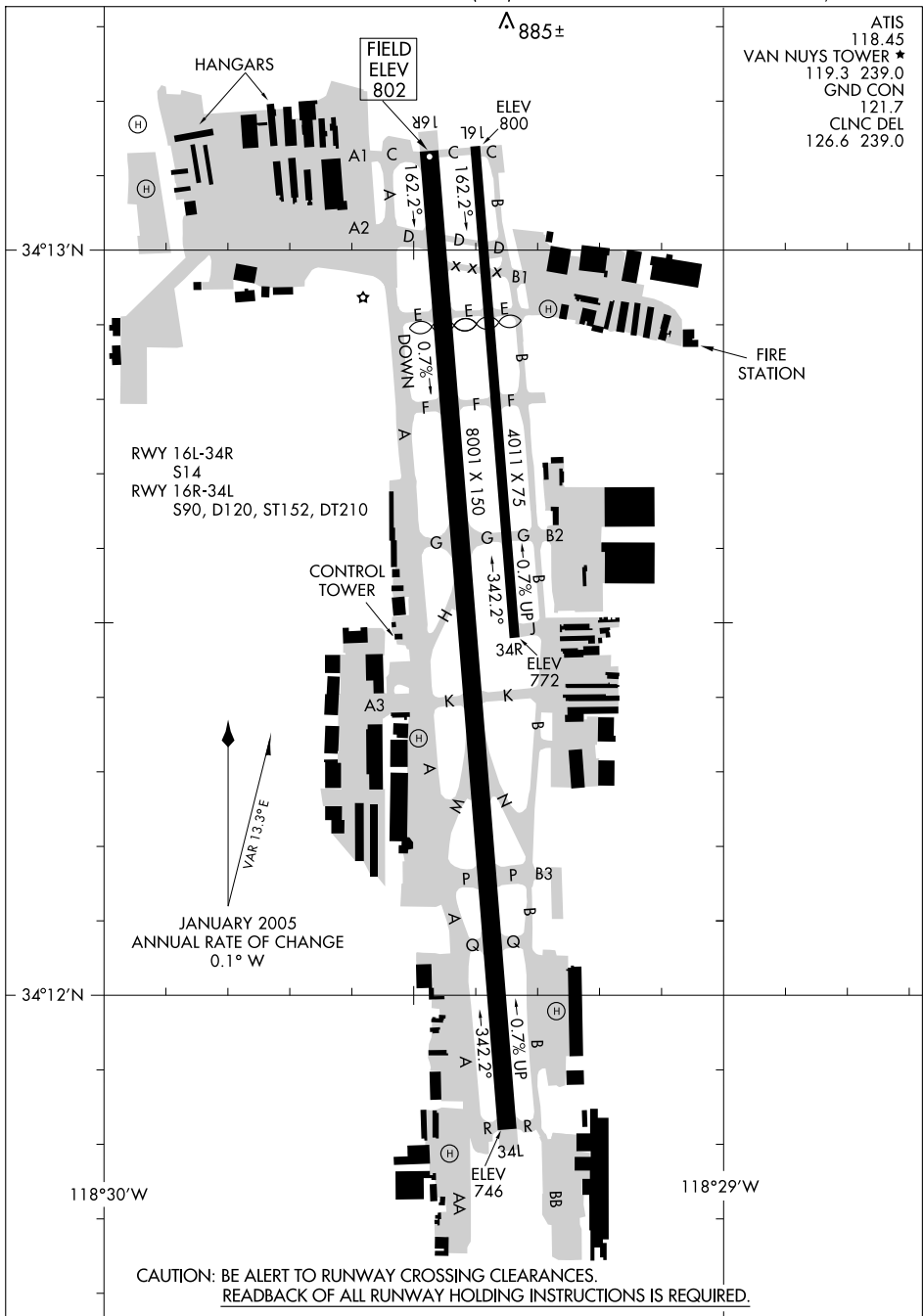


2000  SAC R-241 115.2	DOLCE SAC 14	DOLCE SAC 14	BORGE SAC 8	2000 241° 2000	Procedure Turn NA
MARGR SAC 19	5 NM		6 NM		
CATEGORY	A	B	C	D	
CIRCLING	760-1 643 (700-1)		760-1¾ 643 (700-1¾)	NA	

AIRPORT DIAGRAM

AL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.FERN5): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.FERN5): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

FELLOWS TRANSITION (FLW.FERN5): From over FLW VORTAC via FLW R-116 and FIM R-297 to FIM VORTAC. Thence....

OHIGH TRANSITION (OHIGH.FERN5): From over OHIGH INT via FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC:

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY VOR/DME; then via VNY R-095 to DARTS INT. Expect VOR-A approach.

LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land RWY 34L.

GLENDAL NINE DEPARTURE

SL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

ATIS 118.45
CLNC DEL
126.6 239.0
GND CON
121.7
SOCAL DEP CON
124.6 298.85

TAKE-OFF MINIMUMS

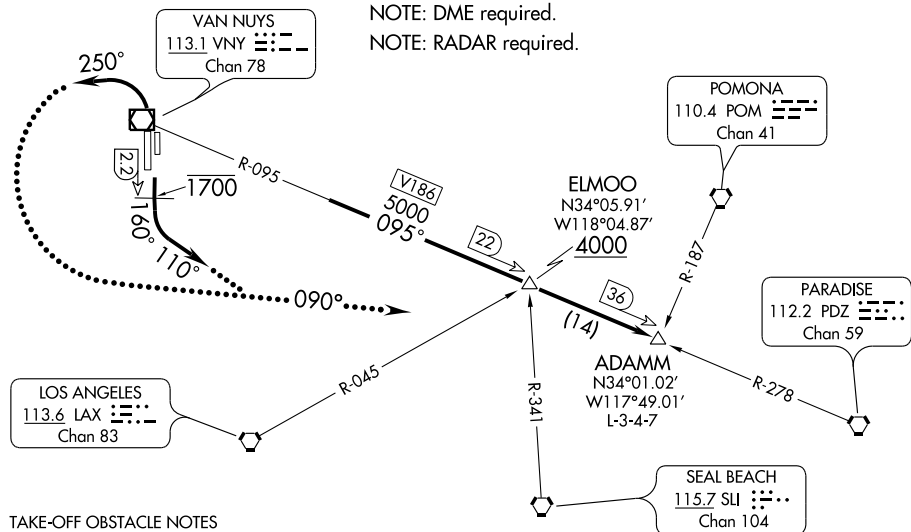
Rwy 16L, Standard with the following minimum climb requirements:
ATC climb of 300' feet per NM to 3800, obstacle climb of 240' per NM to 2000.

Rwy 16R, Standard with the following minimum climb requirements:
ATC climb of 300' feet per NM to 3800, obstacle climb of 280' per NM to 2300.

Rwy 34L, 34R, standard with minimum climb of 480' per NM to 4200.

NOTE: DME required.

NOTE: RADAR required.



TAKE-OFF OBSTACLE NOTES

RWY 16L, Light on hangar 713' from DER, 361' left of centerline, 27' AGL/798' MSL.

RWY 16R, Hangar 209' from DER, 516' right of centerline, 9' AGL/755' MSL.
Flagpole 570' from DER, 549' right of centerline, 15' AGL/761' MSL.
Building 941' from DER, 599' left of centerline, 28' AGL/774' MSL.
Multiple trees beginning 1129' from DER, left and right of centerline, up to 72 AGL/818' MSL.

RWY 34L, Blast fence 169' from DER, 405' left of centerline, 10' AGL/812' MSL.
Obstruction light on blast fence, 241' from DER, 195' left of centerline, 17' AGL/819' MSL.
Multiple trees beginning 325' from DER, 549' right of centerline, up to 119' AGL/921' MSL.
Railroad 305' from DER, 369' right of centerline, 30' AGL/832' MSL.
Building 424' from DER, 589' right of centerline, 29' AGL/831' MSL.
Antenna on building 450' from DER, 462' left of centerline, 15' AGL/817' MSL.
Pole 1376' from DER, 779' left of centerline, 68' AGL/870' MSL.

RWY 34R, Railroad 305' from DER, 5' right of centerline, 33' AGL/832' MSL.
Multiple trees beginning 325' from DER, 174' right of centerline, up to 122' AGL/921' MSL.
Building 424' from DER, 214' right of centerline, 32' AGL/831' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Climb via heading 160° to cross VNY 2.2 DME at or below 1700'. Then climbing left turn heading 110° for vectors to VNY R-095 to ADAMM INT. Then via (assigned route).

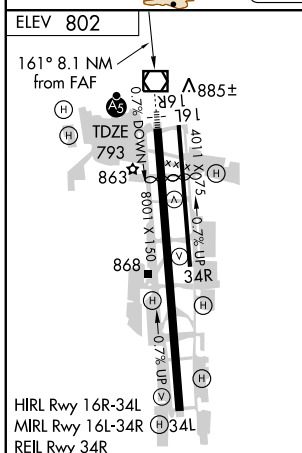
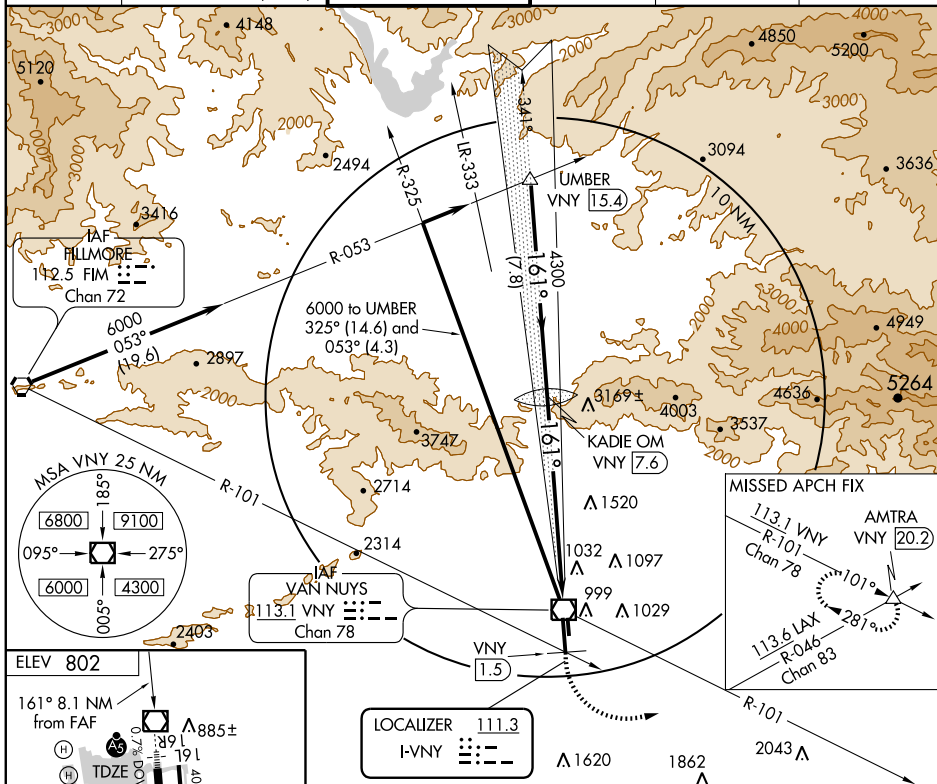
TAKE-OFF RUNWAYS 34L/R: Climbing left turn via heading 250° for vectors to VNY R-095 to ADAMM INT. Then via (assigned route).

LOST COMMUNICATIONS: If not in contact with departure control within 3 NM, turn left heading 090° to intercept VNY R-095 to ADAMM INT, maintain 5000 or as assigned.

LOC I-VNY <u>111.3</u>	APP CRS 161°	Rwy Idg TDZE Apt Elev	6570 793 802
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ILS RWY 16R
VAN NUYS (VNY)

Inoperative table does not apply. Circling requires descent on GS to MDA. Visibility reduction by helicopters NA.		MALSR AS	MISSED APPROACH: Climb to cross VNY 1.5 DME or FIM R-101 at or below 1750, then climbing left turn to 4000 via VNY VOR/DME R-101 to AMTRA INT/VNY 20.2 DME and hold.			
ATIS 118.45	SOCAL APP CON 120.4 360.6 (NORTH) 134.2 338.2 (WEST)	VAN NUYS TOWER ★ 119.3 (CTAF) 0 239.0	GND CON 121.7	CLNC DEL 126.6 239.0	UNICOM 122.95	

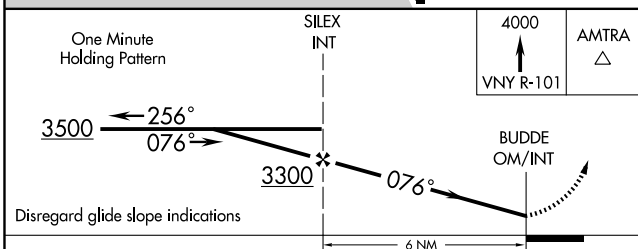
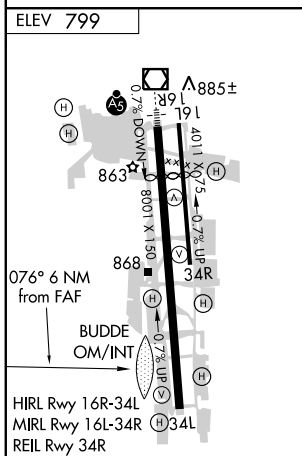
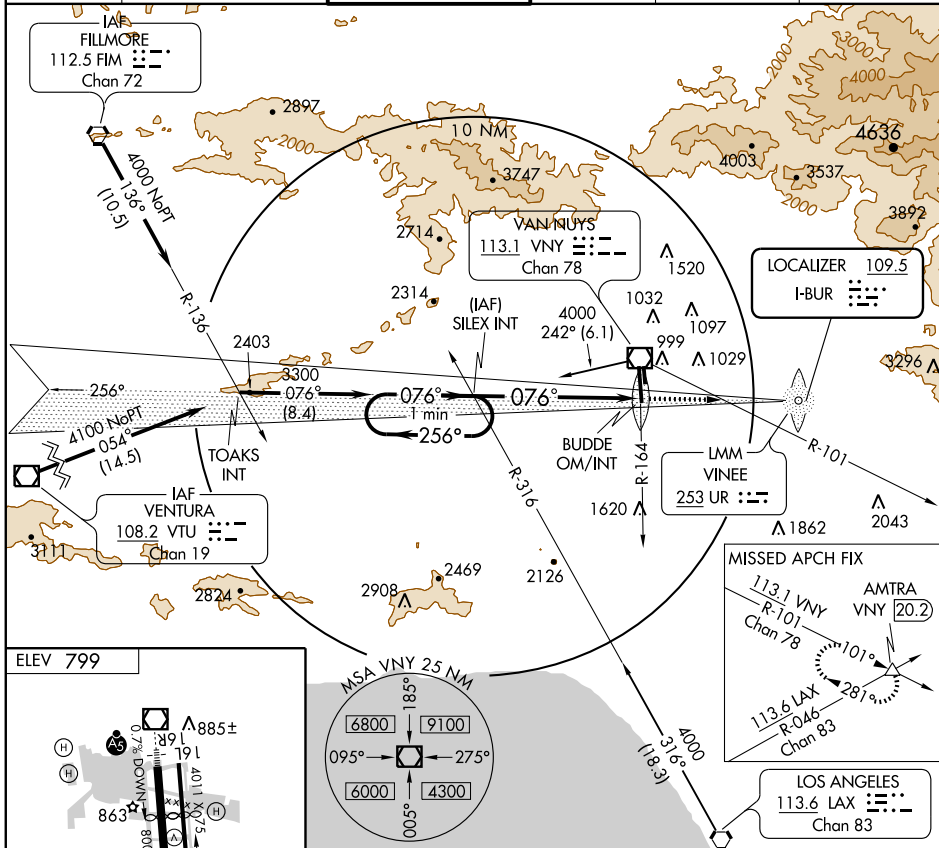


Procedure Turn NA	UMBER INT VNY <u>15.4</u>	KADIE OM VNY <u>7.6</u>	Cross VNY <u>1.5</u> or FIM R-101 1750		4000 VNY R-101	AMTRA △
	6000 GS 3.90° TCH 55*					
CATEGORY	A	B	C	D		
S-ILS 16R	1119-1 326 (400-1)			1143-1 350 (400-1)		
APPROACH NOT AUTHORIZED WHEN GLIDE SLOPE NOT USED						
CIRCLING	1300-1 498 (500-1)		1340-1½ 538 (600-1½)		1360-2 558 (600-2)	

LOC I-BUR 109.5	APP CRS 076°	Rwy Idg TDZE Apt Elev	N/A N/A 799
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MISSED APPROACH: Climb to 4000 via VNY R-101 to AMTRA INT and hold.

ATIS 118.45	SOCAL APP CON 120.4 360.6 (NORTH) 134.2 338.2 (WEST)	VAN NUYS TOWER ★ 119.3 (CTAF) 0 239.0	GND CON 121.7	CLNC DEL 126.6 239.0	UNICOM 122.95
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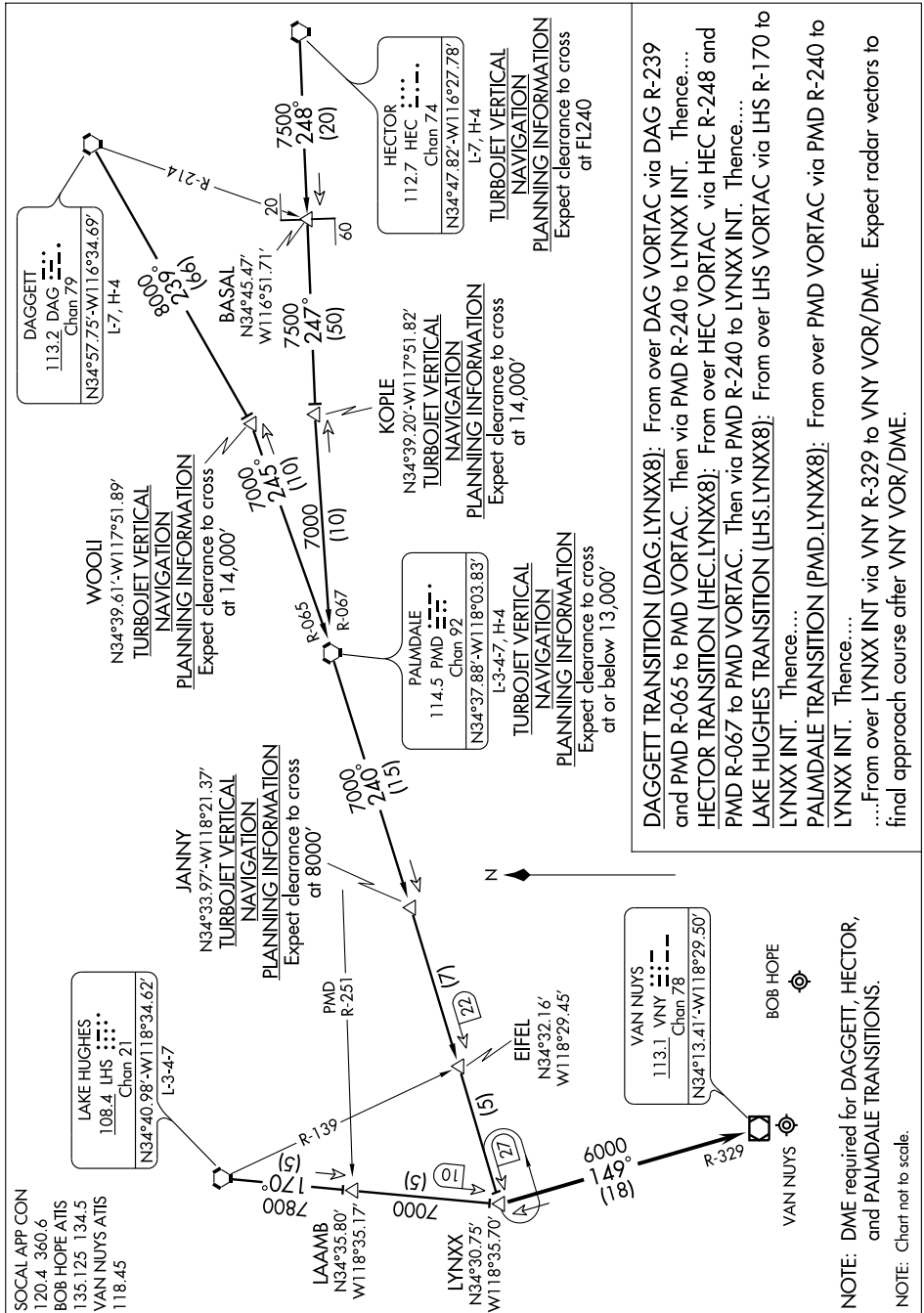


FAF to MAP 6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2600-1¼ 1801 (1900-1¼)	2600-1½ 1801 (1900-1½)	2600-3	1801 (1900-3)
Min:Sec	6:00	4:00	3:00	2:24	2:00					

LYNXE EIGHT ARRIVAL

ST-67 (FAA)

BURBANK, CALIFORNIA



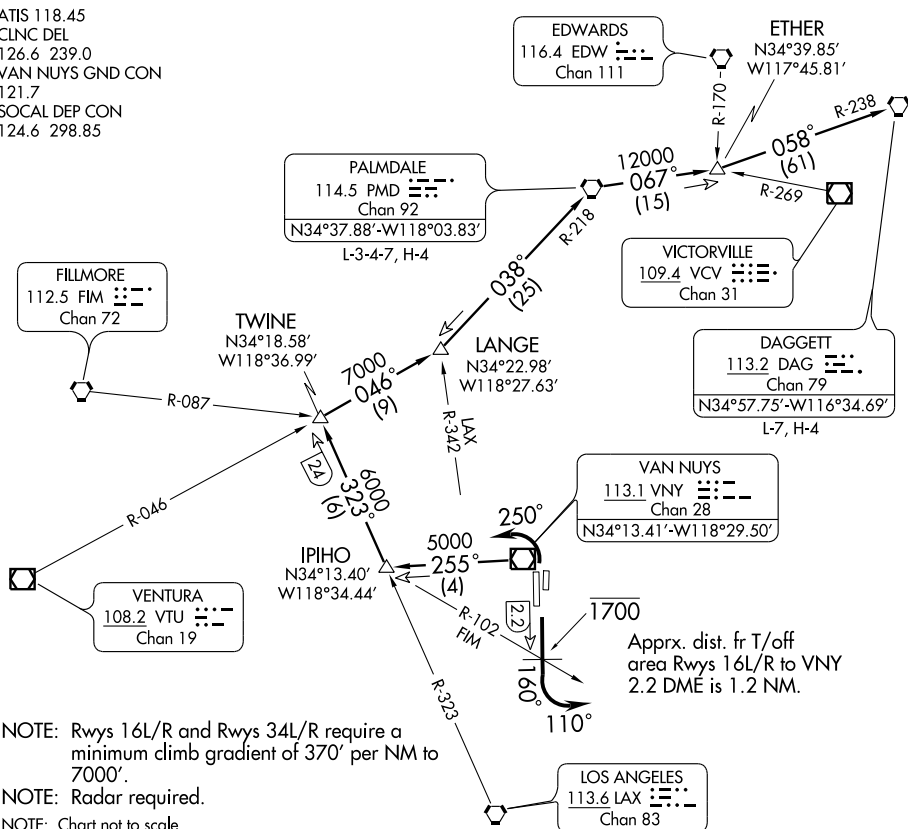
SW-3, 14 JAN 2010 to 11 FEB 2010

NEWHALL SIX DEPARTURE

SL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

ATIS 118.45
CLNC DEL
126.6 239.0
VAN NUYS GND CON
121.7
SOCAL DEP CON
124.6 298.85



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Fly heading 160° to cross FIM R-102 or VNY 2.2 DME at or below 1700'. Then turn left heading 110° for vectors to VNY R-255 and LAX R-323. Then via (transition) or (assigned route).

TAKE-OFF RUNWAYS 34L/R: Turn left heading 250° after departure end of runway for vectors to VNY R-255 and LAX R-323. Then via (transition) or (assigned route).

LOST COMMUNICATIONS: If not in contact with Departure Control within 3 NM:
Rwy 16L/R: Intercept the LAX R-323, then as assigned; Rwy 34L/R: Intercept the VNY R-255, then as assigned.

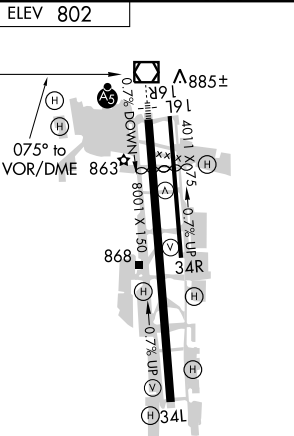
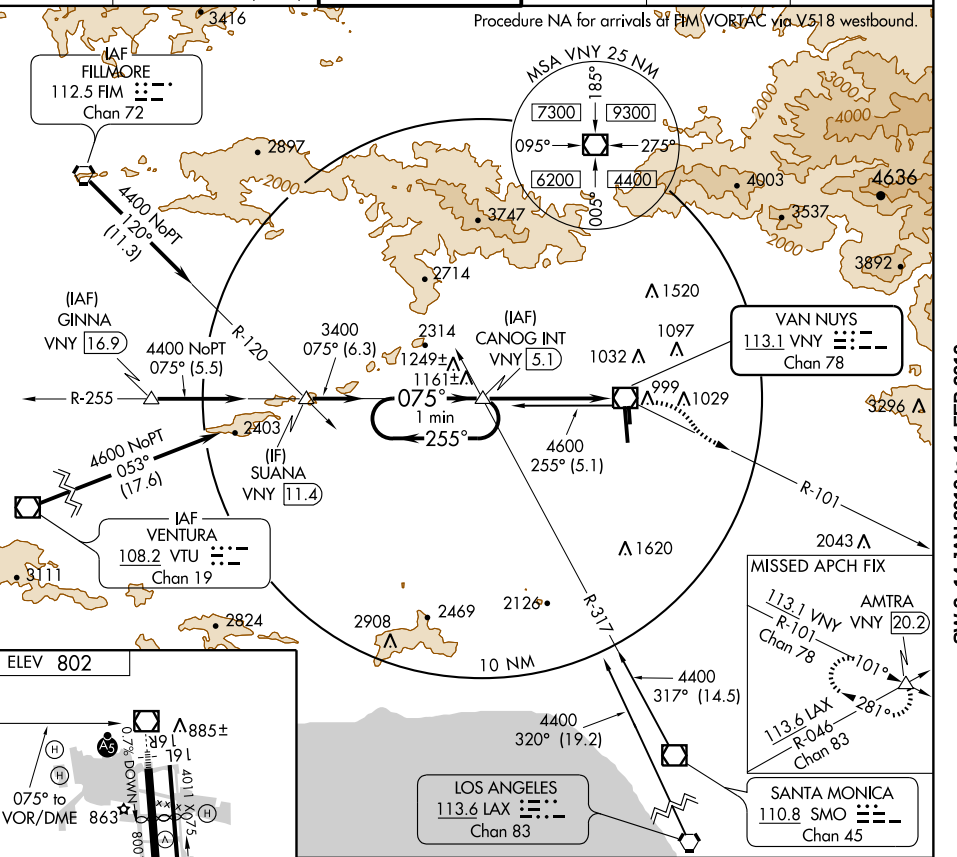
DAGGETT TRANSITION (NUAL6.DAG): Proceed on the VNY R-255 to intercept and proceed via the LAX R-323 and the VTU R-046 to LANGE INT; then the PMD R-218 to the PMD VORTAC. Then via the PMD R-067 and the DAG R-238 to DAG VORTAC.

PALMDALE TRANSITION (NUAL6.PMD): Proceed on the VNY R-255 to intercept and proceed via the LAX R-323 and the VTU R-046 to LANGE INT; then via the PMD R-218 to the PMD VORTAC.

When local altimeter setting not received, use Burbank altimeter setting and increase all MDAs 20 feet.

MISSED APPROACH: Climbing right turn 4000 via VNY R-101 to AMTRA INT/ 20.2 DME and hold.

ATIS 118.45	SOCAL APP CON 120.4 360.6 (NORTH) 134.2 338.2 (WEST)	VAN NUYS TOWER★ 119.3 (CTAF) 239.0	GND CON 121.7	CLNC DEL 126.6 239.0	UNICOM 122.95
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HIRL Rwy 16R-34L
MIRL Rwy 16L-34R
REIL Rwy 34R

CATEGORY	A	B	C	D
CIRCLING	1500-1	698 (700-1)	1500-2 698 (700-2)	1500-2 ¼ 698 (700-2 ¼)

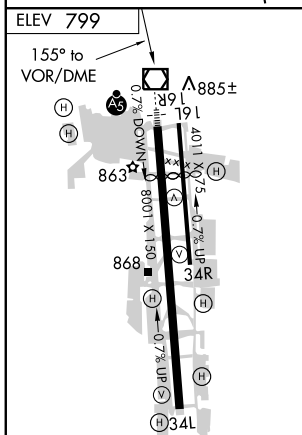
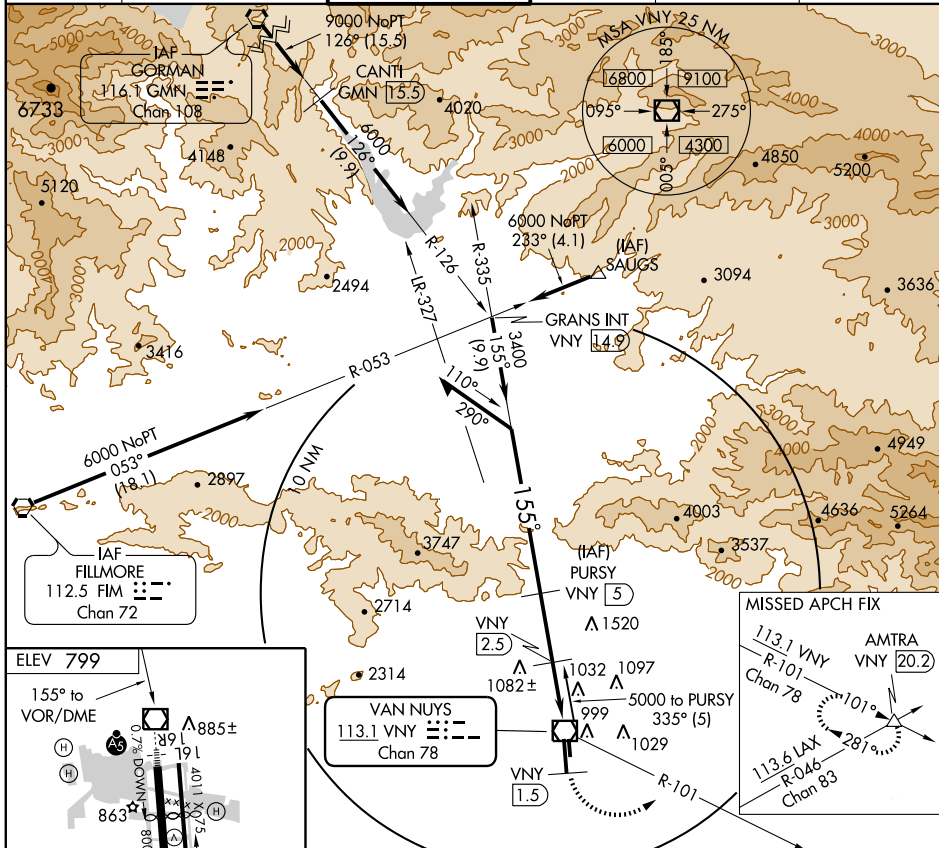
SW-3. 14 JAN 2010 to 11 FEB 2010

VOR/DME VNY 113.1 Chan 78	APP CRS 155°	Rwy Idg TDZE Apt Elev	N/A N/A 799
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VOR/DME or GPS-B VAN NUYS (VNY)

				MISSED APPROACH: Climb to cross VNY 1.5 DME at or below 1750, then climbing left turn to 4000 via VNY R-101 to AMTRA INT and hold.
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ATIS 118.45	SOCAL APP CON 120.4 360.6 (NORTH) 134.2 338.2 (WEST)	VAN NUYS TOWER ★ 119.3 (CTAF) 0 239.0	GND CON 121.7	CLNC DEL 126.6 239.0	UNICOM 122.95
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HIRL Rwy 16R-34L
MIRL Rwy 16L-34R
REIL Rwy 34R

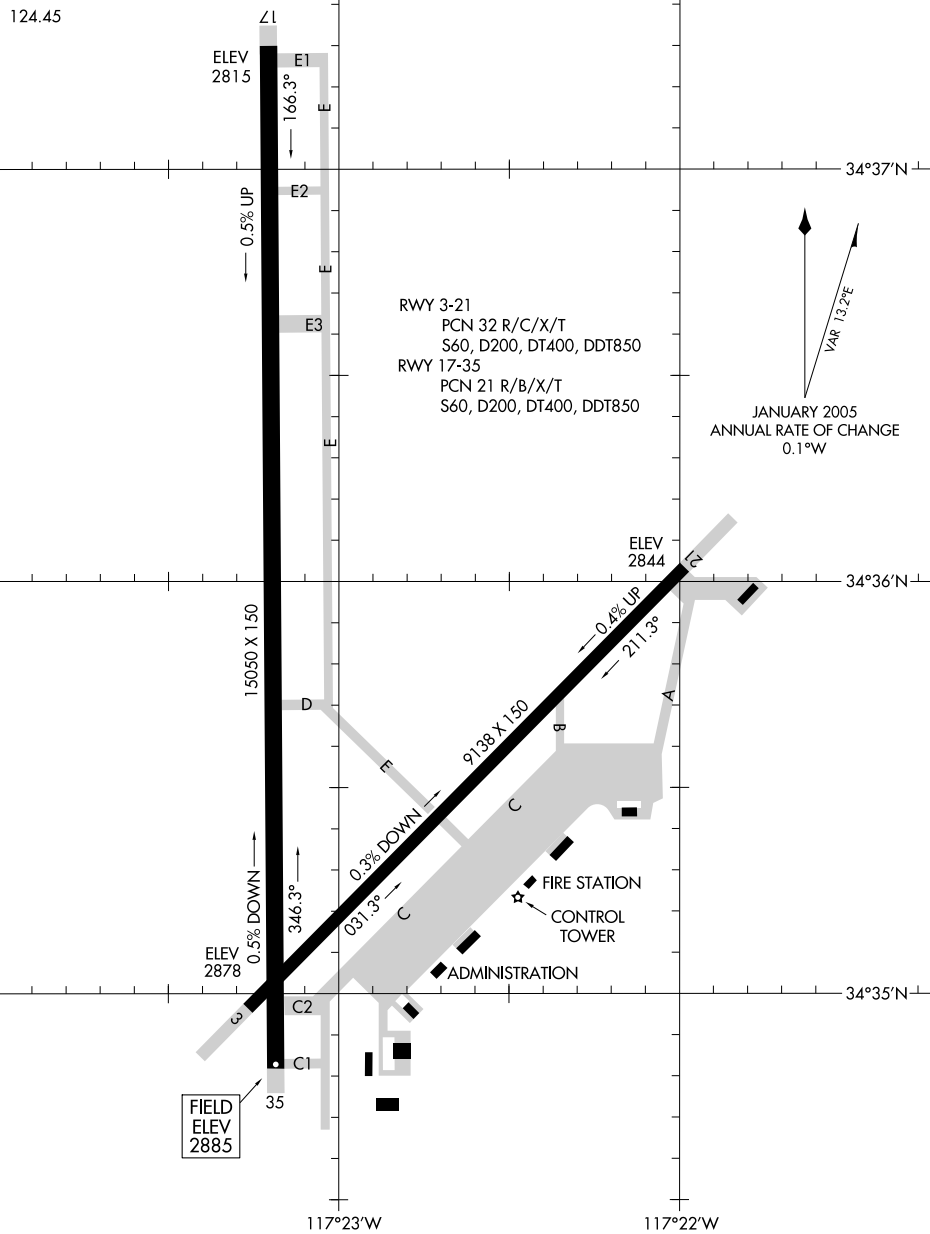
Remain within 10 NM			
Pursy VNY 5			
Cross VNY 1.5 1750 4000 VNY R-101 AMTRA △			
VNY 2.5 3400 2420 2.5 NM 2.5 NM VOR/DME			
CATEGORY	A	B	C
CIRCLING	1300-1	501 (600-1)	1340-1½ 541 (600-1½)
			1360-2 561 (600-2)

AIRPORT DIAGRAM

VICTORVILLE/SOUTHERN CALIFORNIA LOGISTICS (VCV)
AL-794 (FAA) VICTORVILLE, CALIFORNIA

AWOS-3
109.4
VICTORVILLE TOWER ★
118.35
GND CON
124.45

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-VCV <u>108.75</u>	APP CRS 166°	Rwy Idg TDZE Apt Elev	15050 2825 2885
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ILS or LOC RWY 17

VICTORVILLE/ SOUTHERN CALIFORNIA LOGISTICS (VCV)

- T** When local altimeter setting not received, use Edwards AFB altimeter setting and increase all DA and MDA 160 feet. Increase all visibilities ½ mile.
- A** DME from VCV VOR/DME. Simultaneous reception of I-VCV and VCV DME required.

MISSED APPROACH: Climb to 3500, then climbing right turn to 6000 via heading 300° and VCV VOR/DME R-269 to ETHER INT and hold.

AWQS-3

109.4

IOSH IATA APP CON

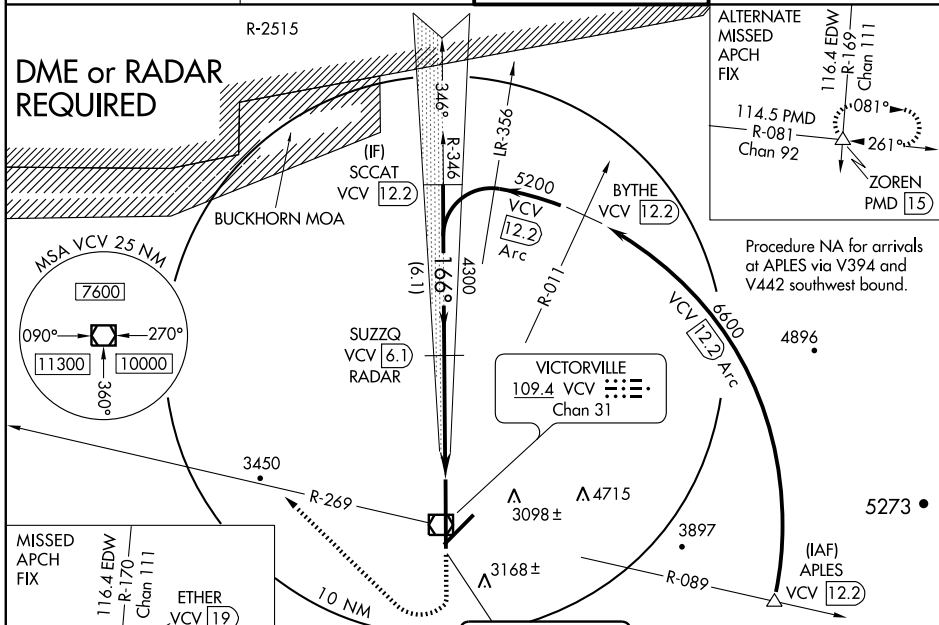
124.55 363.0

VICTORVILLE TOWER ★

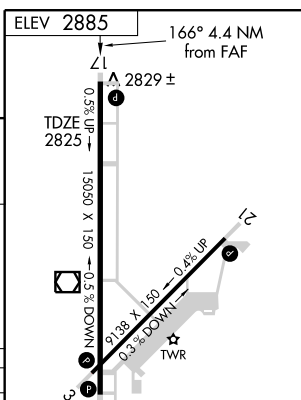
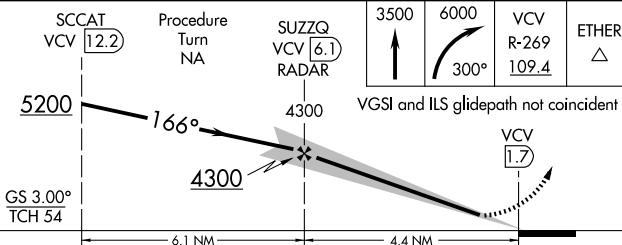
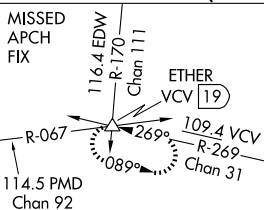
118.35 ④

GND CON

124.45

DME or RADAR
REQUIRED

Procedure NA for arrivals
at APLES via V394 and
V442 southwest bound.



REIL Rwy 17 and 35
HRL Rwy 3-21 and

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

SW-3, 14 JAN 2010 to 11 FEB 2010

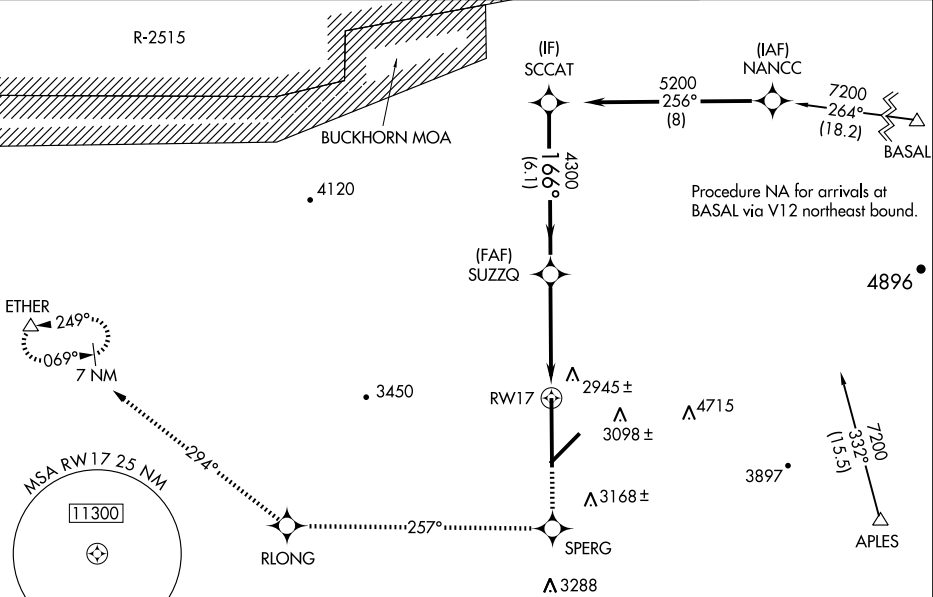
CATEGORY	A	B	C	D
S-ILS 17	3025/40 200 (200-¾)			
S-LOC 17	3080/50 255 (200-1)			
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

WAAS CH 77523 W17A	APP CRS 166°	Rwy Idg TDZE Apt Elev	15050 2825 2885
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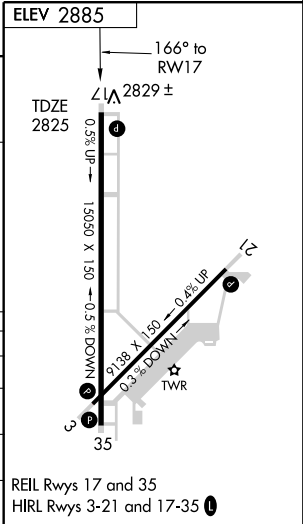
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
⚠ DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Edwards AFB altimeter setting and increase all DA and MDA 160 feet. Increase all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Edwards AFB altimeter setting.

MISSED APPROACH: Climb to 6000 direct SPERG and via 257° track to RLONG and via 294° track to ETHER and hold.

AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	VICTORVILLE TOWER * 118.35 0	GND CON 124.45
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Procedure Turn NA		SCAT	6000	SPERG	257° track	RLONG	294° track	ETHER
GS 3.00° TCH 54		5200	166°	4300	4300	*LNAV only	RW17	
		6.1 NM		3.6 NM	0.8			
CATEGORY		A	B	C	D	VGS1 and RNAV glidepath not coincident. *0.8 NM to RW17		
LPV DA		3075/40	250 (200-¾)					
LNAV/VNAV DA		3240-1½	415 (400-1½)					
LNAV MDA		3140/50	315 (300-1)					
CIRCLING		3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)			



REIL Rwy 17 and 35
HIRL Rwy 3-21 and 17-35

VOR/DME VCV 109.4 Chan 31	APP CRS 170°	Rwy Idg 15050 TDZE 2825 Apt Elev 2885
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VOR/DME RWY 17

VICTORVILLE/ SOUTHERN CALIFORNIA LOGISTICS (VCV)

T When local altimeter setting not received, use Edwards AFB
A altimeter setting and increase all MDA 160 feet. Increase all
visibilities ½ mile.

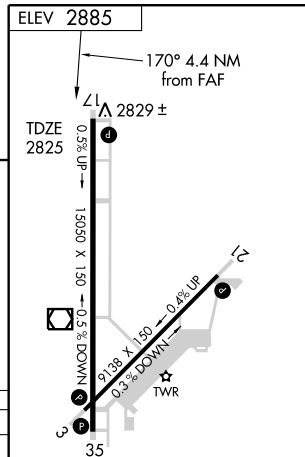
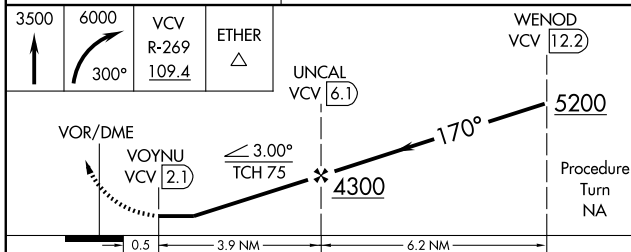
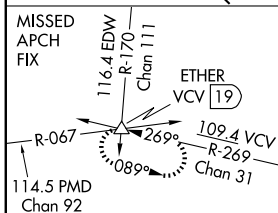
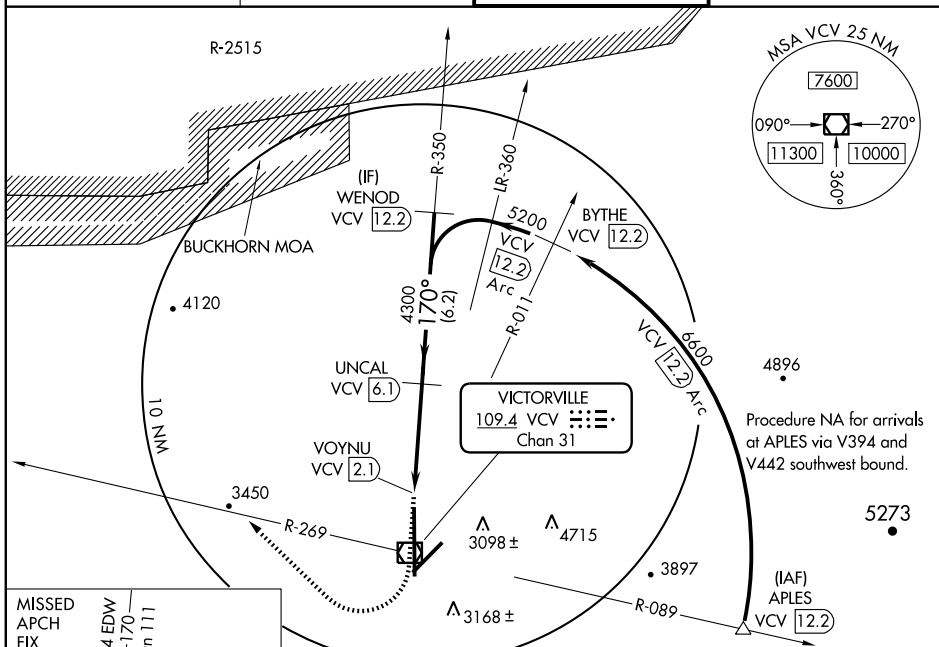
MISSED APPROACH: Climb to 3500, then climbing right turn to 6000 via heading 300° and VCV R-269 to ETHER INT and hold.

AWOS-3
109.4

JOSHUA APP CON
124.55 363.0

VICTORVILLE TOWER ★
118.35 L

GND CON
124.45



CATEGORY	A	B	C	D
S-17	3200/50 375 (400-1)			3200/60 375 (400-1¼)
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

REIL Rwy 17 and 35
HIRL Rwy 3-21 and 17-35 **L**

MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct VIS VOR/DME and hold, continue climb-in-hold to 3000.

One Minute Holding Pattern

PACOD
VIS 10.8

2000

121° →
← 301°

2000

GS 3.00°
TCH 53

VIS 5.8

5.1 NM

CATEGORY	A	B	C	D
S-ILS 30	495-½ 200 (200-½)			
S-LOC 30	620-½ 325 (400-½)			620-¾ 325 (400-¾)
CIRCLING	720-1 425 (500-1)	760-1 465 (500-1)	760-1½ 465 (500-1½)	860-2 565 (600-2)

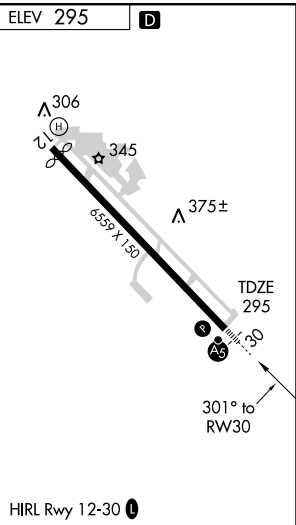
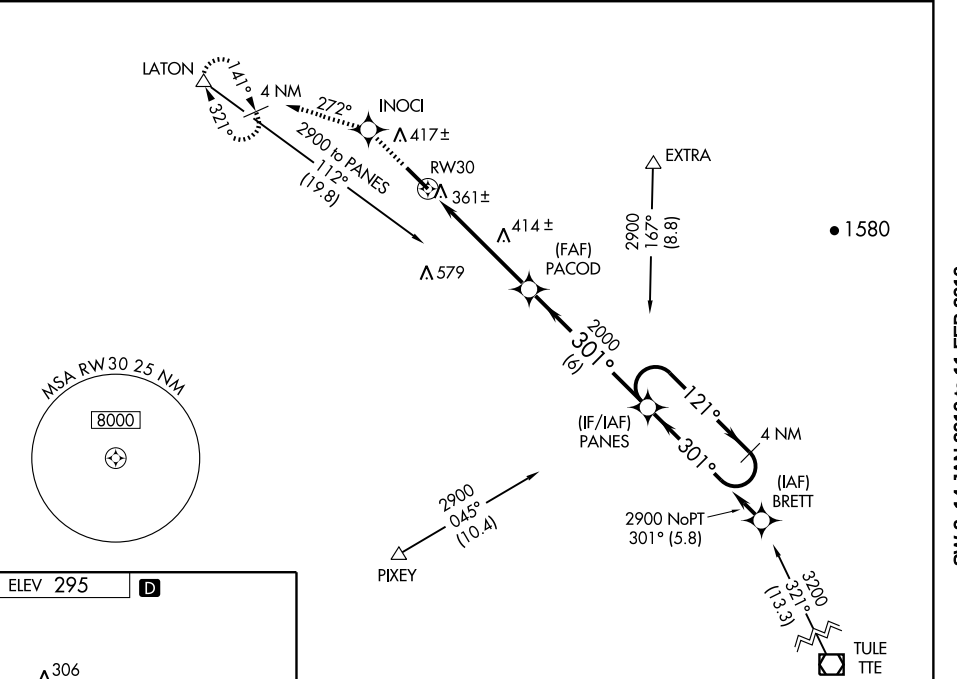
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA.

▲ When local altimeter setting not received, use Hanford altimeter setting and increase all DA/MDA 40 feet and increase LNAV Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Hanford altimeter setting. For inoperative MALSR when using local altimeter and Hanford altimeter setting, increase LNAV Cat D visibility to 1¼ mile.

MALSR

MISSED APPROACH: Climb to 3000 direct INOCI and via 272° track to LATON and hold, continue climb-in-hold to 3000.

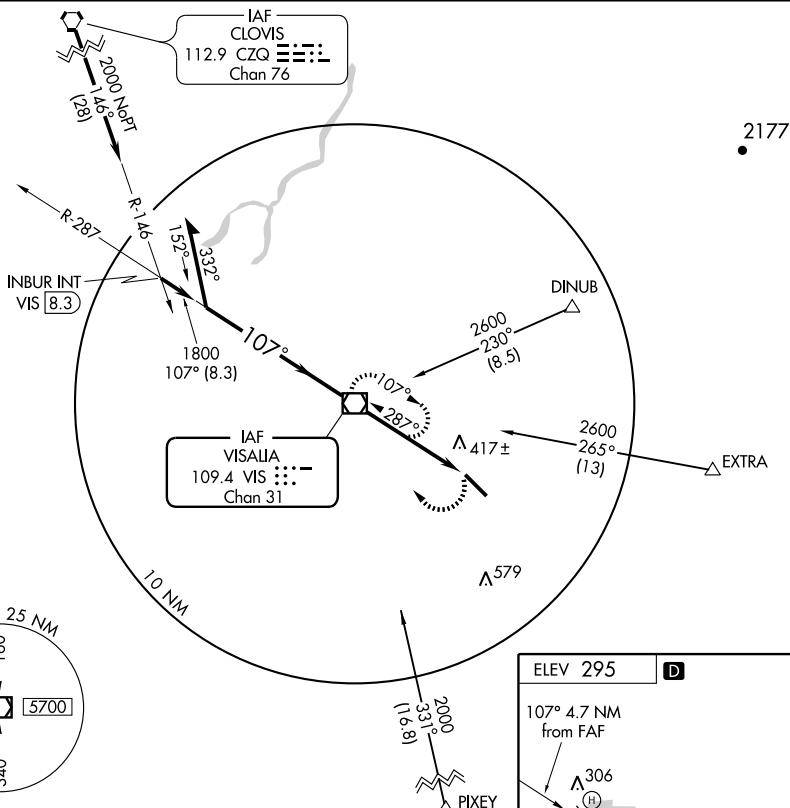
AWOS-3 119.925	FRESNO APP CON 118.5	UNICOM 123.05 (CTAF) U
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3000	INOCI	272° track	LATON	PANES	4 NM Holding Pattern
*LNAV only 1.1 NM to RW30 PACOD 121° 2900 301° 2000 GS 3.00° TCH 53					
CATEGORY	A	B	C	D	
LNAV/VNAV DA	626-¾ 331 (400-¾)				
LNAV MDA	680-½ 385 (400-½)				680-1 385 (400-1)
CIRCLING	720-1 425 (500-1)	760-1 465 (500-1)	760-1½ 465 (500-1½)	860-2 565 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climbing right turn to 2000 direct
VIS VOR/DME and hold.

UNICOM
123.05 (CTAF) **L**

CATEGORY	A	B	C	D	HIRL Rwy 12-30 					
S-12	680-1 386 (400-1)			680-1½ 386 (400-1½)	FAF to MAP 4.7 NM					
CIRCLING	720-1 425 (500-1)	760-1 465 (500-1)	760-1½ 465 (500-1½)	860-2 565 (600-2)	Knots	60	90	120	150	180
					Min:Sec	4:42	3:08	2:21	1:53	1:34

LOC I-AYN <u>108.3</u>	APP CRS 016°	Rwy Idg TDZE Apt Elev	4501 152 163
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LOC RWY 2
WATSONVILLE MUNI (WVI)

T Circling not authorized west of Rwy 2-20. When local altimeter setting
A not received, use Monterey altimeter setting and increase all MDA 80
feet and visibility Cats C and D $\frac{1}{4}$ mile and circling Cat C $\frac{1}{4}$ mile.

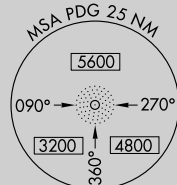
MISSED APPROACH: Climbing right turn to 5000 direct SNS VORTAC and hold, continue climb-in-hold to 5000.

ASOS
132.275

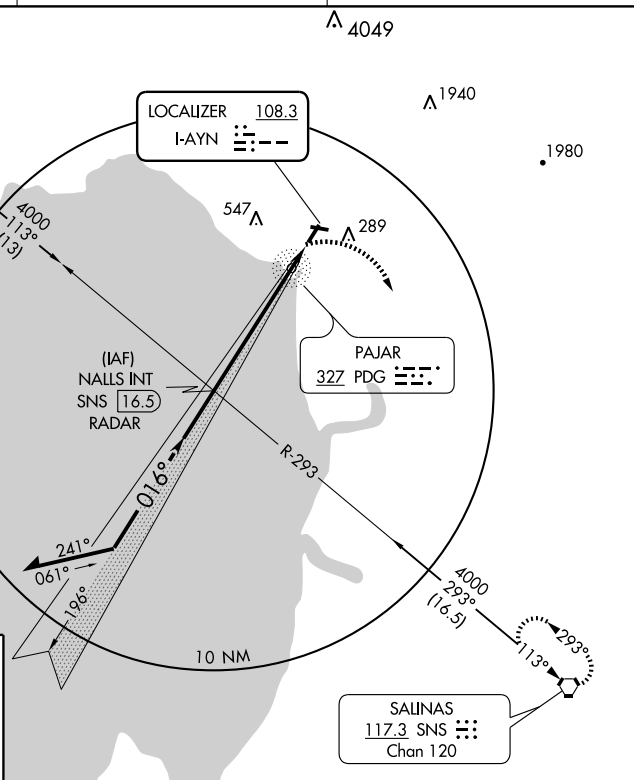
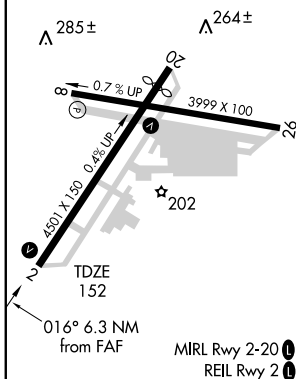
NORCAL APP CON
127.15 307.125

UNICOM
122.8 (CTAF) **L**

SNS DME at NALLS for procedure entry only.



ELEV 163



Remain
within 10 NM

NALLS INT
SNS 16.5
RADAR

5000



SNS

117.3

3000

196°

016°

2200

3.02° $\searrow$
TCH 48

Λ 3635

CATEGORY	A	B	C	D
S-2	680-1	528 (600-1)	680-1½ 528 (600-½)	680-1¾ 528 (600-¼)
CIRCLING	680-1	517 (600-1)	680-1½ 517 (600-½)	720-2 557 (600-2)

NDB PDG
327

APP CRS
015°

Rwy Idg	TDZE	Apt Elev
18L	100	100
18R	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
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97	100	100
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99	100	100
100	100	100

N/A
N/A
160

NDB or GPS-B

WATSONVILLE MUNI (WVI)

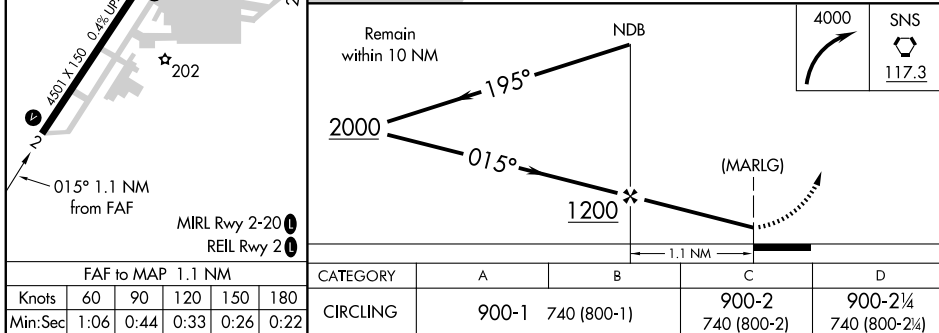
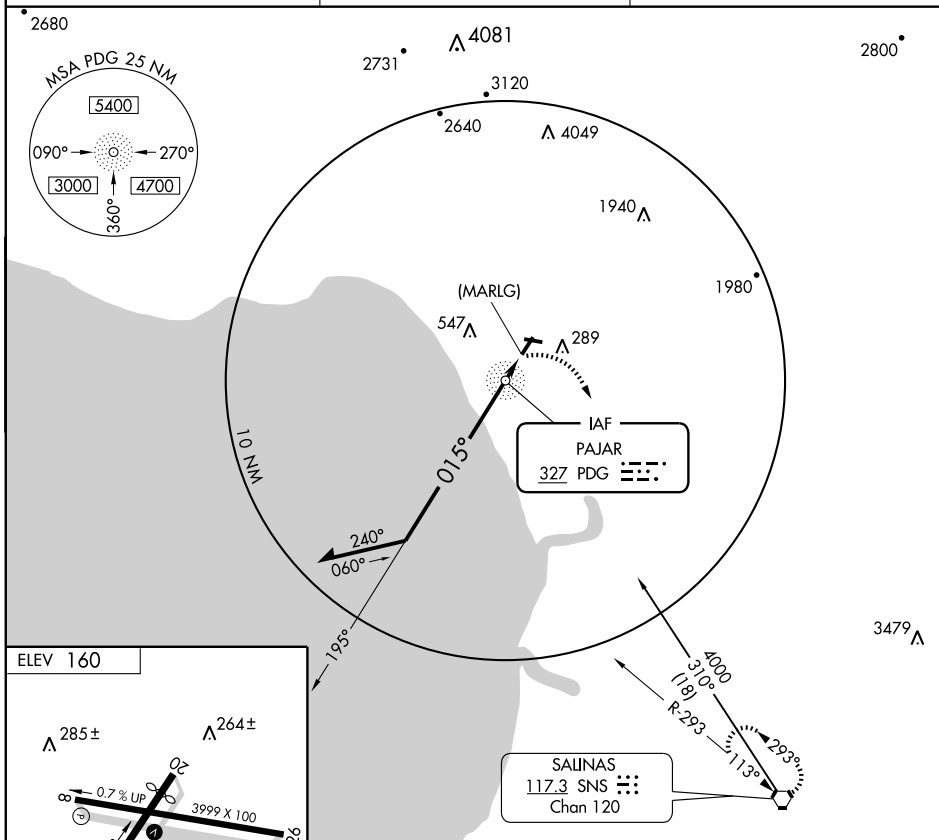


Circling not authorized west of Rwy 2-20.

MISSED APPROACH: Climbing right turn to 4000 direct SNS VORTAC and hold.

ASOS
132,275

NORCAL APP CON
127.15 307.125

UNICOM
122.8 (CTAF) **L**

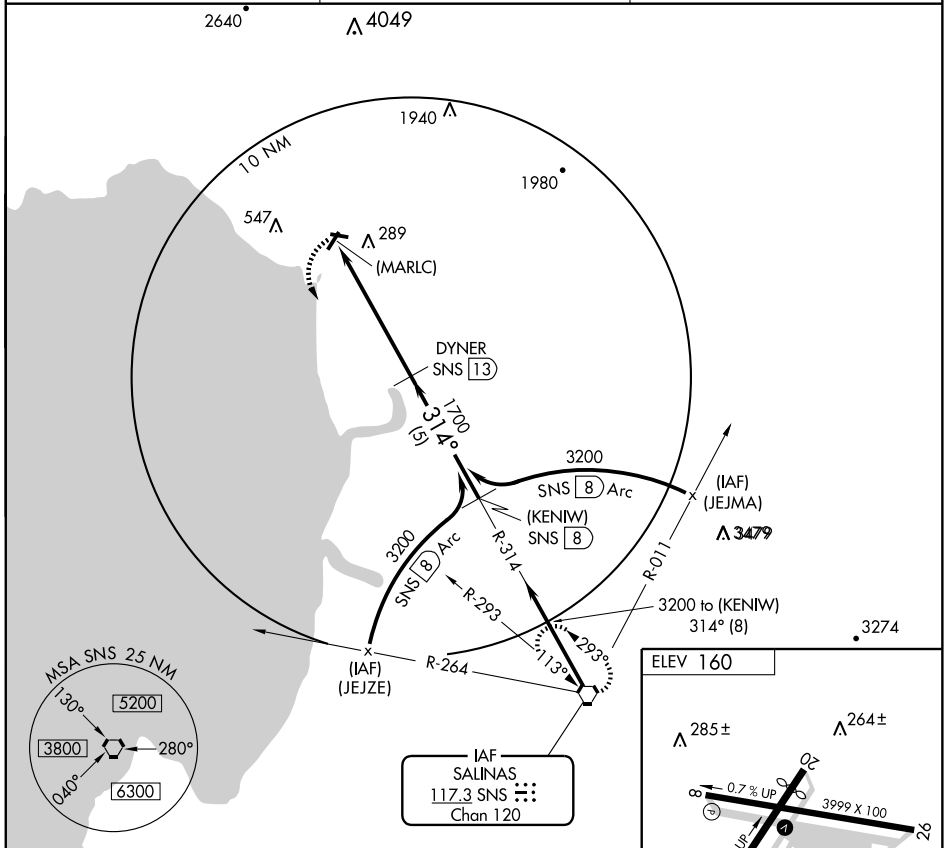
VORTAC SNS 117.3 Chan 120	APP CRS 314°	Rwy Idg TDZE Apt Elev N/A N/A 160
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VOR/DME or GPS-A

WATSONVILLE MUNI (WVI)

NA Circling not authorized west of Rwy 2-20.	MISSED APPROACH: Climbing left turn to 4000 direct SNS VORTAC and hold.
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ASOS 132.275	NORCAL APP CON 127.15 307.125	UNICOM 122.8 (CTAF)
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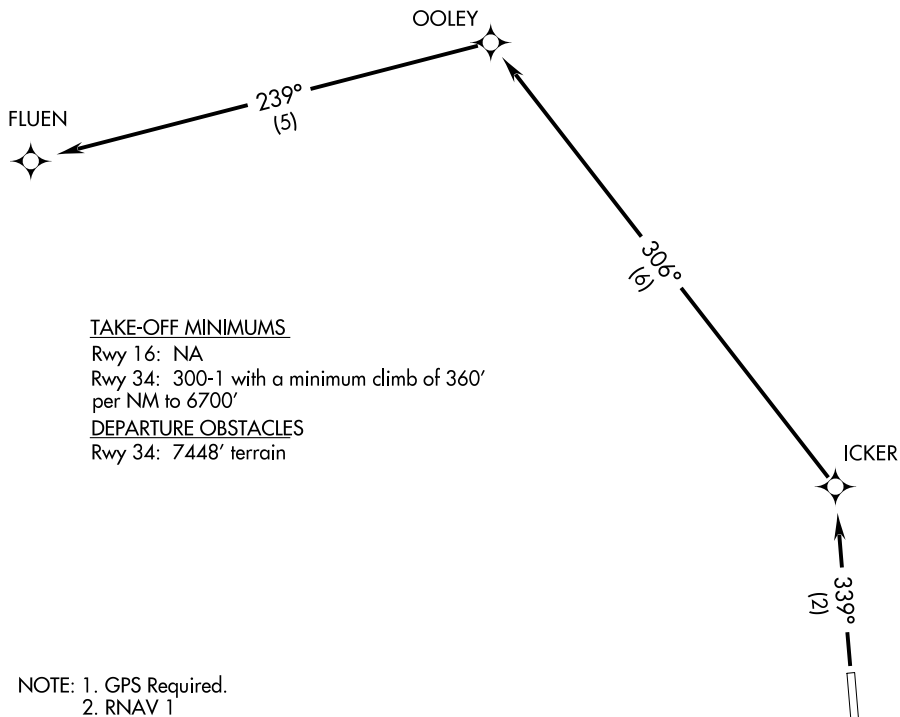


CATEGORY	A	B	C	D
CIRCLING	1300-1¼ 1140 (1200-1¼)	1300-1½ 1140 (1200-1½)	1300-3	1140 (1200-3)

MIRL Rwy 2-20 ①
REIL Rwy 2 ①

MIRL Rwy 2-20
REIL Rwy 2

OAKLAND CENTER
132.2 350.3
UNICOM 122.8 (CTAF) 1



SW-2, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 34: Climb via 339° course to ICKER WP, then via 306° course to OOLEY WP, then via 239° course to FLUEN WP, thence proceed on course.

MENDOCINO ONE DEPARTURE (RNAV) (OBSTACLE)

WILLITS, CALIFORNIA

OAKLAND CENTER
132.2 350.3
UNICOM 122.8 (CTAF)

TAKE-OFF MINIMUMS

Rwy 16: Standard
Rwy 34: N/A Obstacles

TAKE-OFF OBSTACLES

Rwy 16: Trees 1812' from departure end of rwy,
844' left of centerline, 100' AGL/2139' MSL.

NOTE: 1. GPS Required.
2. RNAV 1

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb to 6000 direct VICOR WP, then via 153° track to
ENI VORTAC, thence proceed on course.

NA

Obtain local altimeter setting on CTAF, when not received use Ukiah Muni altimeter setting.
Circling NA west of Rwy 16-34.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

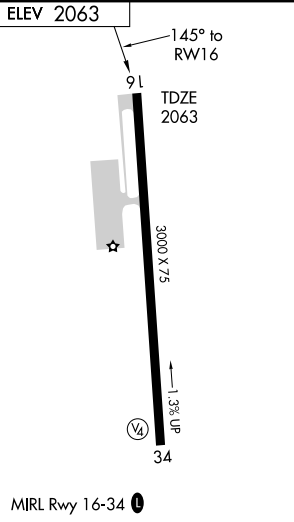
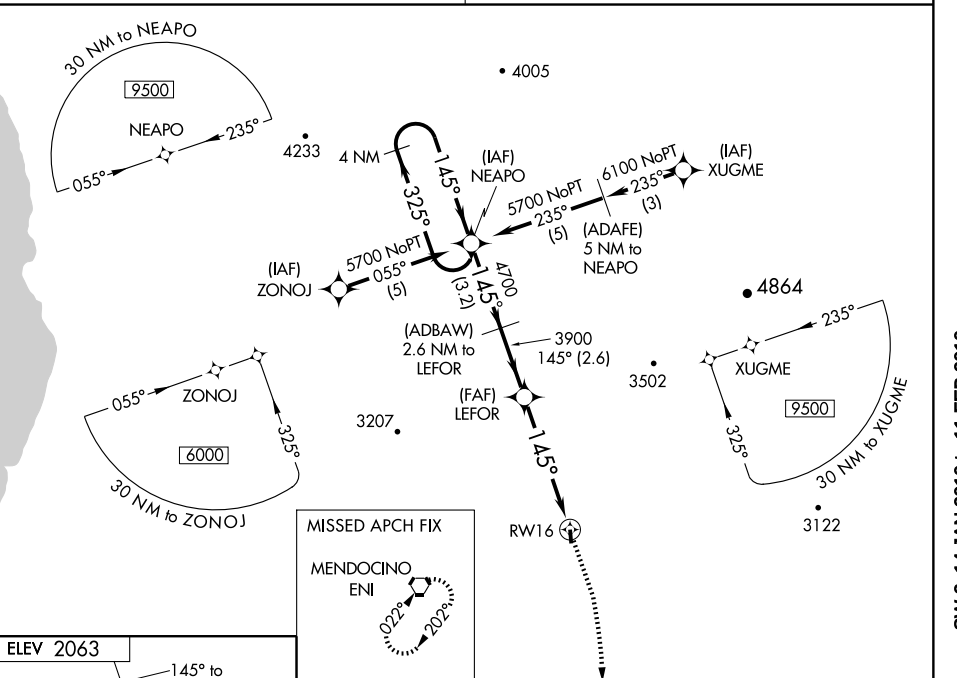
MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 direct ENI VORTAC and hold.

OAKLAND CENTER

132.2 350.3

UNICOM

122.8 (CTAF) 0



4000

↑

6000

↗

ENI

(ADBAW)
2.6 NM to
LEFOR

NEAPO

4 NM
Holding Pattern

LEFOR

↖ 3.39°

TCH 40

↗ 145°

↖ 145°

3900

4700

5700

RW16

↖

↗

5 NM

2.6 NM

3.2 NM

CATEGORY	A	B	C	D
LNAV MDA	3340-1¼ 1277 (1300-1¼)	3340-1½ 1277 (1300-1½)	3340-3 1277 (1300-3)	NA
CIRCLING	3340-1¼ 1277 (1300-1¼)	3340-1½ 1277 (1300-1½)	3340-3 1277 (1300-3)	NA
UKIAH MUNI ALTIMETER SETTING				
LNAV MDA	3600-1¼ 1537 (1600-1¼)	3600-1½ 1537 (1600-1½)	3600-3 1537 (1600-3)	NA
CIRCLING	3600-1¼ 1537 (1600-1¼)	3600-1½ 1537 (1600-1½)	3600-3 1537 (1600-3)	NA

APP CRS	Rwy Idg	4125
343°	TDZE	136
	Apt Elev	139

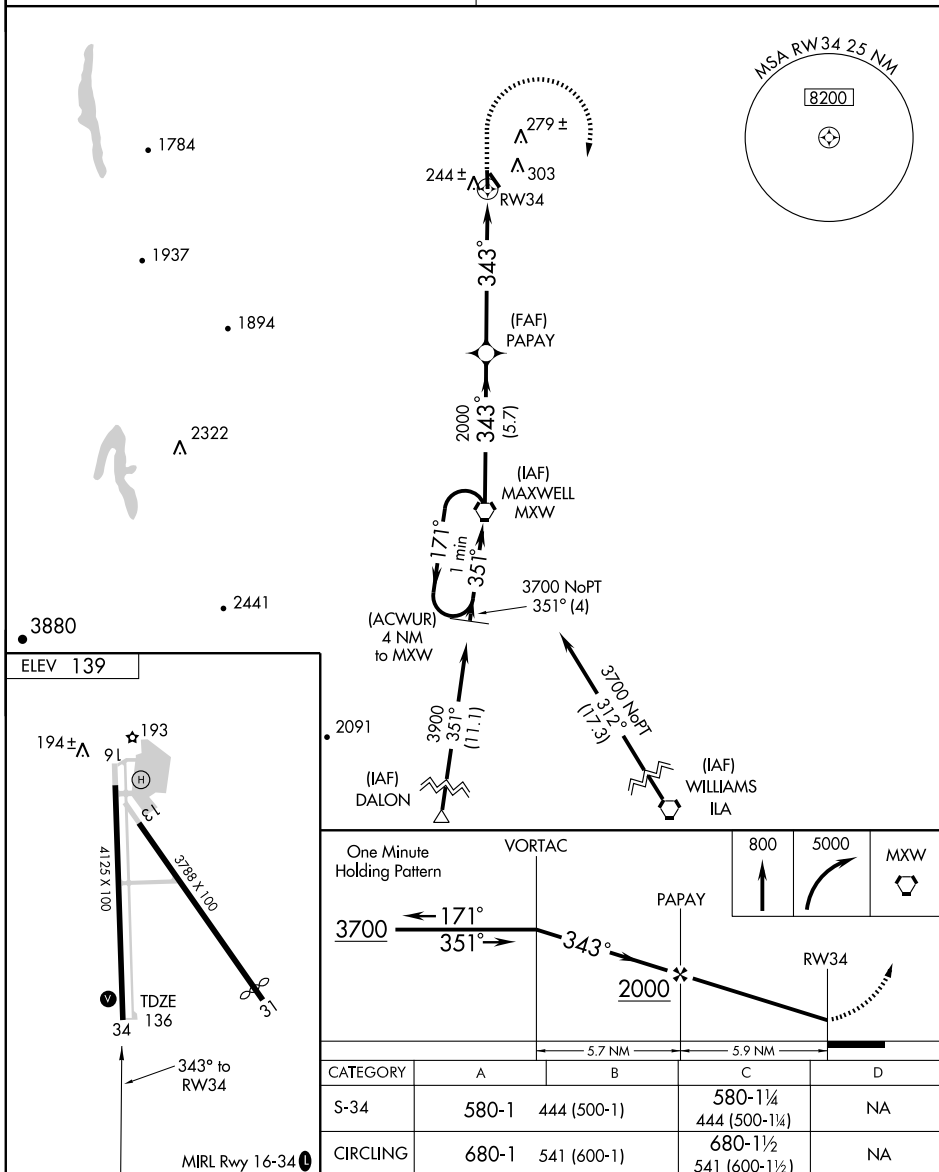
GPS RWY 34

WILLOWS-GLENN COUNTY(WLW)



MISSED APPROACH: Climb to 800 then climbing right turn to 5000 direct MXW VORTAC and hold.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) **L**

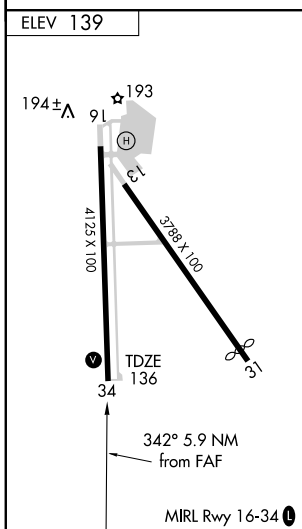
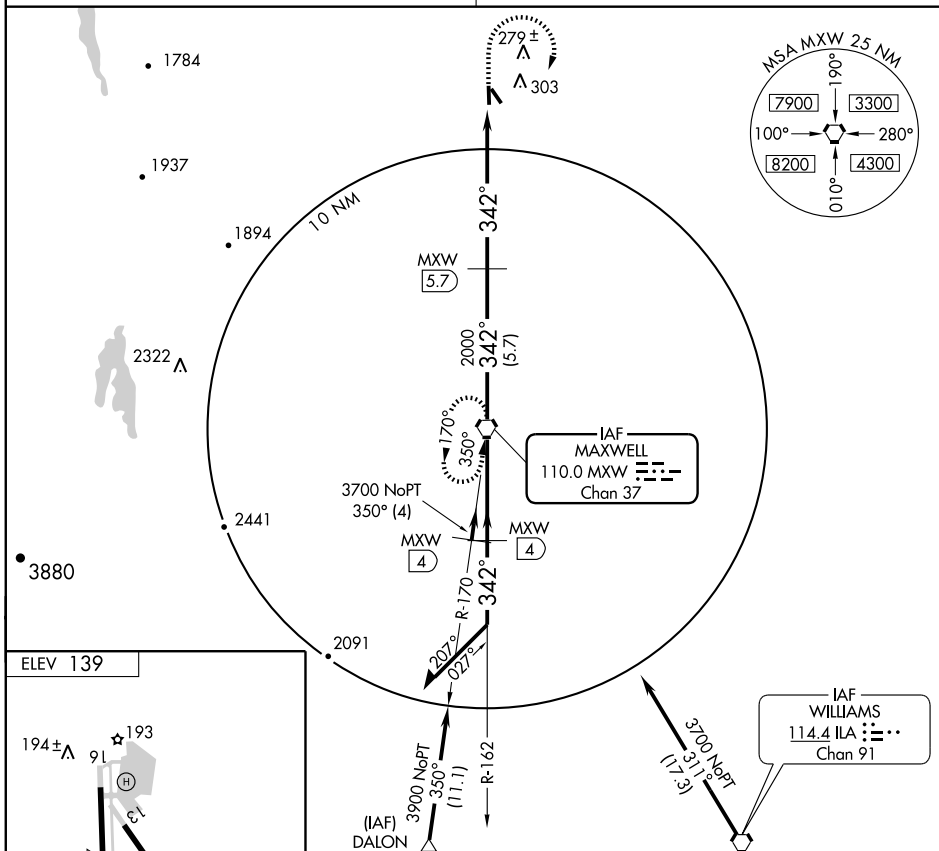
VORTAC MXW 110.0 Chan 37	APP CRS 342°	Rwy Idg 4125 TDZE 136 Apt Elev 139
--	------------------------	---

VOR/DME RWY 34
WILLOWS-GLENN COUNTY (WLW)

T
ANA Use Oroville Muni altimeter setting.

MISSED APPROACH: Climb to 900 then climbing right turn to 5000 direct MXW VORTAC and hold.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) 

CATEGORY	A	B	C	D
S-34	600-1	464 (500-1)	600-1½ 464 (500-1¼)	NA
CIRCLING	680-1	541 (600-1)	680-1½ 541 (600-1½)	NA

▼

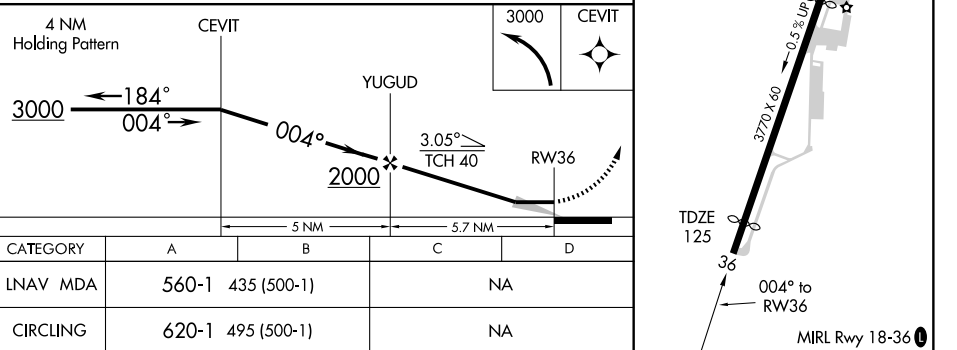
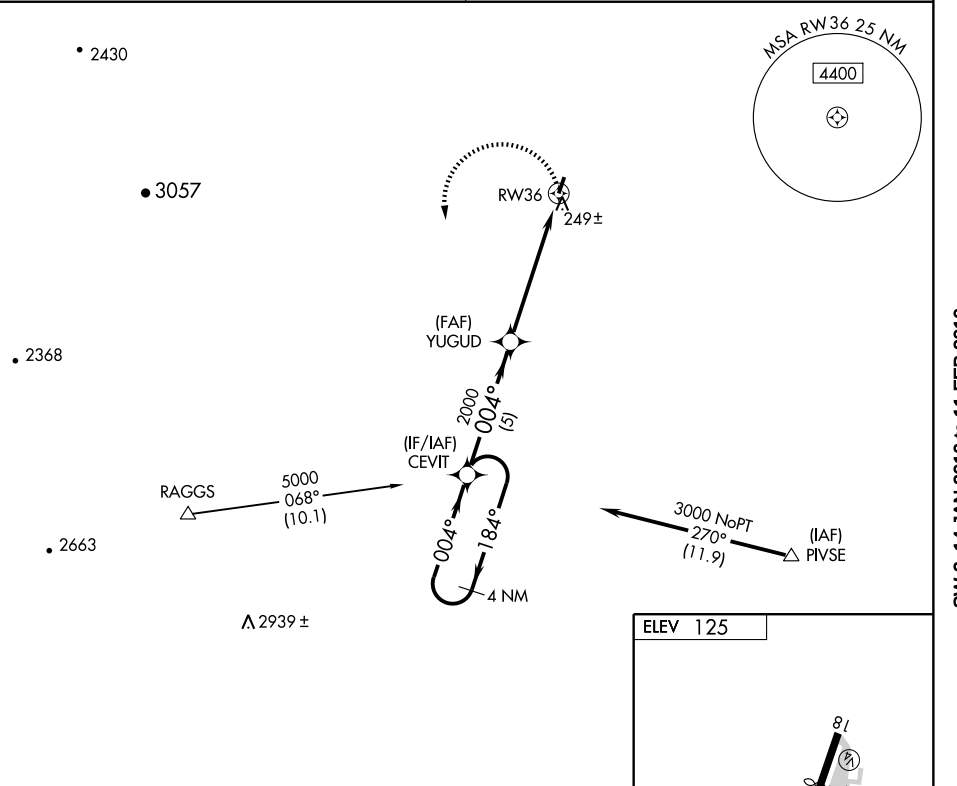
▲ NA

DME/DME RNP- 0.3 NA.
Procedure NA at night.
Use Sacramento Infil altimeter setting; when not received,
use Sacramento Executive altimeter setting and increase
all MDA 20 feet.

MISSED APPROACH: Climbing left turn to 3000 direct CEVIT
and hold.

TRAVIS APP CON
126.6 291.0

UNICOM
122.8 (CTAF) 



SW-2, 14 JAN 2010 to 11 FEB 2010

VORTAC SAC 115.2 Chan 99	APP CRS 296°	Rwy Idg TDZE Apt Elev N/A N/A 125
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VOR/DME-A

WOODLAND/WATTS-WOODLAND (041)

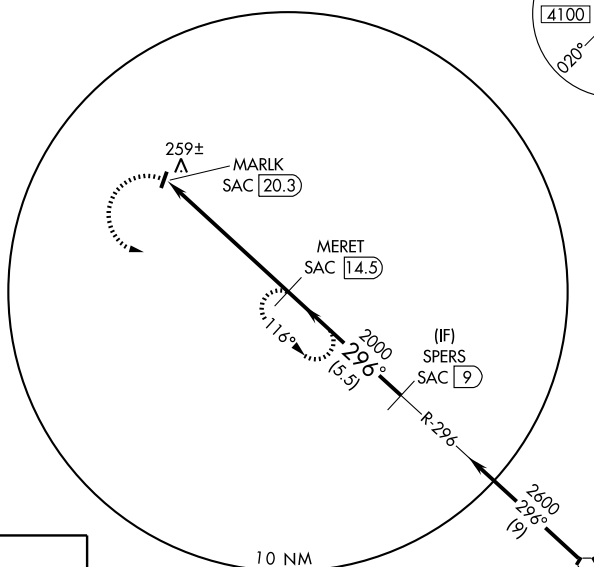
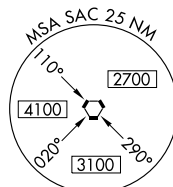
Procedure NA at night.
NA Use Sacramento Intl altimeter setting; when not received, use Sacramento Executive altimeter setting and increase all MDA 20 feet.

MISSED APPROACH: Climbing left turn to 2000 via SAC VORTAC R-296 to MERET/14.5 DME and hold.

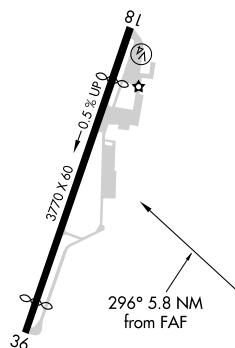
TRAVIS APP CON
126.6 291.0

UNICOM
122.8 (CTAF)

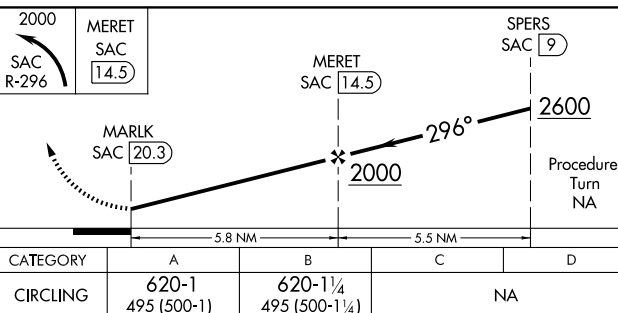
•1940



ELEV 125



Procedure NA for arrival on SAC VORTAC airway radials 257 CW 329.



MIRL Rwy 18-36

INSTRUMENT APPROACH PROCEDURE CHARTS
 IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME **ALTERNATE MINIMUMS**
AKRON, CO
 COLORADO
 PLAINS RGNL **RNAV (GPS) Rwy 11**
 NA when local weather not available.

ALAMOSA, CO
 SAN LUIS VALLEY RGNL/
 BERGMAN FIELD **RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
 NA when local weather not available.

ALBUQUERQUE, NM
 ALBUQUERQUE INTL
 SUNPORT **VOR or TACAN Rwy 8**
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾; Category E, 900-3.

CLAYTON, NM
 CLAYTON MUNI AIRPARK **NDB Rwy 2¹**
NDB Rwy 20²
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
 NA when local weather not available.
 ¹Categories A, B, 900-2; Category C, 900-2½,
 Category D, 900-2¾.
 ²Category D, 800-2¾.

CLOVIS, NM
 CLOVIS MUNI **VOR Rwy 22,800-2½**

COLORADO SPRINGS, CO
 CITY OF COLORADO SPRINGS
 MUNI **ILS or LOC Rwy 17L¹**
ILS or LOC Rwy 35L²
ILS or LOC Rwy 35R²³
NDB Rwy 35L⁴
RNAV (GPS) Rwy 17R³⁵
RNAV (GPS) Rwy 35R³

- ¹ILS, 700-2.
 ²ILS, Category D, 700-2.
 ³NA when local weather not available.
 ⁴Category E, 1000-3.
 ⁵Category C, 800-2¾; Category D, 800-2½.

NAME **ALTERNATE MINIMUMS**
CORTEZ, CO
 CORTEZ MUNI **RNAV (GPS) Y Rwy 21¹**
RNAV (GPS) Z Rwy 21²
VOR Rwy 21¹

- ¹Category D, 900-3.
 ²Categories A, B, 1300-2; Categories C, D,
 1300-3.

CRAIG, CO
 CRAIG-MOFFAT **VOR/DME Rwy 7¹**
VOR Rwy 25²

- ¹1300-3.
 ²1700-3.

DEMING, NM
 DEMING MUNI **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 26
VOR Rwy 26

NA when local weather not available.

DENVER, CO
 CENTENNIAL **ILS or LOC Rwy 35R¹**
NDB Rwy 35R²
RNAV (GPS) Rwy 28³⁴
RNAV (GPS) Rwy 35R¹⁴

- ¹Categories A,B, 900-2; Category C, 900-2½,
 Category D, 900-2¾.
 ²Categories A,B, 1000-2; Categories C,D,
 1000-3.
 ³Category D, 800-2¾.
 ⁴NA when local weather not available.

DENVER, CO
 DENVER INTL **ILS or LOC Rwy 34L**
ILS, 700-2.

ROCKY MOUNTAIN
 METROPOLITAN **ILS or LOC Rwy 29R**
VOR/DME Rwy 29L/R
 NA when control tower closed.

NAME **ALTERNATE MINIMUMS**
DURANGO, CO
DURANGO-LA PLATA
COUNTY **VOR/DME Rwy 3**
NA when control zone not effective except for
operators with approved weather reporting
service.

EAGLE, CO
EAGLE COUNTY
RGNL **LDA/DME Rwy 25**
Categories A,B, 2100-2; Category C, 2100-3.
NA when control tower closed.
NA when local weather not available.

FARMINGTON, NM
FOUR
CORNERS RGNL **ILS or LOC Rwy 25¹²**
RNAV (GPS) Rwy 5³
RNAV (GPS) Rwy 7³
RNAV (GPS) Rwy 23⁴
¹NA when control tower closed.
²ILS, Categories B,C,D, 700-2.
³NA when local weather not available.
⁴Category D, 800-2½.

FORT COLLINS/LOVELAND, CO
FORT COLLINS-
LOVELAND MUNI **RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
VOR/DME-A
NA when local weather not available.

GALLUP, NM
GALLUP MUNI **RNAV (GPS) Rwy 6¹²**
RNAV (GPS) Rwy 24³
VOR Rwy 6¹
¹Category C, 800-2½; Category D, 900-3.
²NA when local weather not available.
³Category D, 900-3.

GRAND JUNCTION, CO
GRAND JUNCTION
RGNL **ILS or LOC Rwy 11¹**
LDA/DME Rwy 29²
RNAV (GPS) Rwy 11²
¹ILS, Category D, 700-2½. LOC, Category D,
800-2½.
²Category D, 800-2½.

GREELEY, CO
GREELEY-
WELD COUNTY **ILS or LOC Rwy 34**
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 27
RNAV (GPS) Rwy 34
VOR or TACAN-A
NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
GUNNISON, CO
GUNNISON-CRESTED
BUTTE RGNL **ILS or LOC Rwy 6¹**
RNAV (RNP) Rwy 6, 800-2½
VOR or GPS-A²³
¹ILS, LOC, Categories A, B, C, 1600-3.
²Categories A,B,C, 1700-3; Cat D, 2300-3.
³NA when local altimeter setting not available
except for operators with approved weather
reporting service.

HAYDEN, CO
YAMPA VALLEY ... **ILS or LOC/DME Y Rwy 10¹**
RNAV (GPS) Y Rwy 10¹²
VOR/DME-B²³
¹Categories A, B, 1200-2; Categories C, D,
1200-3.
²NA when local weather not available.
³Categories A, B, 1300-2; Categories C, D,
1300-3.

HOBBS, NM
LEA COUNTY RGNL **ILS or LOC Rwy 3¹**
LOC/DME BC Rwy 21²
RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 21²
RNAV (GPS) Rwy 30²
VOR/DME or TACAN Rwy 21²
VOR or TACAN Rwy 3²
¹NA when control tower closed.
²NA when control tower closed, except
standard for operators with approved weather
reporting service.
³NA when local weather not available.

LA JUNTA, CO
LA JUNTA MUNI **RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 26
NA when local weather not available.

LAMAR, CO
LAMAR MUNI **RNAV (GPS) Rwy 18¹**
RNAV (GPS) Rwy 36²
VOR Rwy 18³
¹NA when local weather not available.
²Category D, 800-2½.
³Category C, 900-2½, Category D, 900-2½.

LAS VEGAS, NM
LAS VEGAS MUNI **RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
RNAV (GPS) Rwy 32
VOR Rwy 2
VOR Rwy 20
NA when local weather not available.

NAME ALTERNATE MINIMUMS

MEEKER, CO

MEEKER **RNAV (GPS) Rwy 3**
NA when local weather not available.
Categories A, B, 1500-2; Category C, 1500-3.

MONTROSE, CO

MONTROSE
RGNL **ILS or LOC/DME Rwy 17**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 35
RNAV (GPS) Y Rwy 17
RNAV (GPS) Z Rwy 17
VOR/DME Rwy 13
Category C, 1000-2¾; Category D, 1000-3.

PAGOSA SPRINGS, CO

STEVENS FIELD **RNAV (GPS)-A**
NA when local weather not available.

PORTALES, NM

PORTALES MUNI **RNAV (GPS) Rwy 1**
Category D, 900-3.

PUEBLO, CO

PUEBLO MEMORIAL **ILS or LOC Rwy 8L¹³**
ILS or LOC Rwy 26R²³
RNAV (GPS) Rwy 8L⁴
RNAV (GPS) Rwy 26R⁴
VOR or TACAN Rwy 26R³

¹ILS, Categories A,B,C,D, 700-2;
Category E, 1000-3. LOC, Category E, 1000-3.

²ILS, 700-2.

³NA when control tower closed.

⁴NA when local weather not available.

RATON, NM

RATON MUNICIPAL/
CREWS FIELD **VOR/DME Rwy 2**
Categories A,B, 1400-2; Categories C,D,
1400-3.

NAME ALTERNATE MINIMUMS

RIFLE, CO

GARFIELD COUNTY
RGNL **LOC/DME-A¹²³**
ILS Rwy 26²³⁴
RNAV (GPS) Y Rwy 8²⁵
RNAV (GPS) W Rwy 26²⁷
RNAV (GPS) X Rwy 26²⁸
RNAV (RNP) Y Rwy 26²⁶
RNAV (RNP) Z Rwy 8²⁹
RNAV (RNP) Z Rwy 26²
VOR/DME-C⁵

¹Categories A,B, 2400-2; Category C, 2400-3.

²NA when local weather not available.

³Not authorized 0200-1300Z.

⁴ILS, Categories A,B,C, 1300-4.

⁵Categories A,B, 1900-2; Category C, 1900-3.

⁶Categories A,B,C, 800-2¼.

⁷Categories A,B, 1700-2; Category C, 1700-3.

⁸Categories A,B,C, 900-2½.

⁹Categories A,B,C, 900-3.

ROSWELL, NM

ROSWELL
INTL AIR CENTER **ILS Rwy 21¹**
LOC BC Rwy 3¹
RNAV (GPS) Rwy 3²
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 21²
RNAV (GPS) Rwy 35²

¹NA when control tower closed.

²NA when local weather not available.

SANTA FE, NM

SANTA FE MUNI **ILS or LOC Rwy 2¹²**
VOR/DME-A³⁴
VOR Rwy 33³⁴

¹NA when control tower closed.

²ILS, Category D, 700-2¾. LOC, Category D,
800-2¼.

³Category D, 800-2¼.

⁴NA when control tower closed except for
operators with approved weather reporting
service.



E4



14 JAN 2010 to 11 FEB 2010



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AKRON, CO

COLORADO PLAINS RGNL (AKO)

ORIG 09127 (FAA)

NOTE: **Rwy 11**, rod on obstruction light on anemometer 314' from DER, 525' left of centerline, 26' AGL/4695' MSL. Lights on hangers 412' from DER, 301' left of centerline, 18' AGL/4687' MSL. **Rwy 29**, vehicles on roadway beginning 971' from DER, 315' left of centerline, 15' AGL/4741' MSL. Trees beginning 1651' from DER, 528' left of centerline, up to 100' AGL/4839' MSL.

ALAMOGORDO, NM

ALAMOGORDO-WHITE SANDS RGNL

TAKE-OFF MINIMUMS: **Rwy 16, 21, 34**, NA

DEPARTURE PROCEDURE: Use CORONA ONE Departure.

ALAMOSA, CO

SAN LUIS VALLEY RGNL-BERGMAN FIELD

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA.

DEPARTURE PROCEDURE: **Rwy 2**, turn right. **Rwy 20**, turn left. Climb direct ALS VORTAC, continue climb in ALS VORTAC holding pattern (SE, right turns, 301° inbound) to depart ALS VORTAC at airway MEA/MCA, all others climb to 16000.

NAME TAKE-OFF MINIMUMS

ALBUQUERQUE, NM

ALBUQUERQUE INTL SUNPORT (ABQ)

AMDT 5 08157

TAKE-OFF MINIMUMS: **Rwy 3**, 200 - 1 or std. w/ min. climb of 240' per NM to 5600, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to departure end of rwy, **Rwy 8**, std. w/ min. climb of 515' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 3, 30, 35**, climbing left turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. **Rwy 8**, climbing right turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. (do not exceed 250 kts until ABQ VORTAC). **Rwys 12, 17, 21**, climbing right turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. **Rwy 26**, climb direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ALBUQUERQUE INTL SUNPORT (CON'T)

NOTE: **Rwy 3**, light 549' from departure end of runway, 575' right of centerline, 29' AGL/5344' MSL. Light 2109' from departure end of runway, 1001' left of centerline, 67' AGL/5382' MSL. Multiple tanks beginning 4962' from departure end of runway, 1708' left of centerline, up to 154' AGL/5469' MSL. **Rwy 12**, electrical equipment 36' from departure end of runway, 214' right of centerline, 20' AGL/5315' MSL. **Rwy 17**, light 114' from departure end of runway, 360' right of centerline, 19' AGL/5328' MSL. Pole 248' from departure end of runway, 423' left of centerline, 32' AGL/5321' MSL. **Rwy 21**, terrain beginning 23' from departure end of runway, 277' left to 291' right of centerline, up to 5319' MSL. **Rwy 30**, tower 1057' from departure end of runway, 743' right of centerline, 93' AGL/5393' MSL. **Rwy 35**, light on fence 106' from departure end of runway, 11' right of centerline, 11' AGL/5326' MSL. Sign 165' from departure end of runway, 140' left of centerline, 13' AGL/5328' MSL. Vehicles on road 215' from departure end of runway, from left to right of centerline, up to 15' AGL/5335' MSL. Multiple trees beginning 314' from departure end of runway, 53' left of centerline, up to 50' AGL/5367' MSL. Multiple trees beginning 329' from departure end of runway, 172' right of centerline, up to 50' AGL/5362' MSL. Tower 3208' from departure end of runway, 860' right of centerline, 100' AGL/5410' MSL.

DOUBLE EAGLE II (AEG)

AMDT 1 08045 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 035° to 11700 before turning right, all others turn left on course. **Rwy 17**, climb heading 169° to 9400 before turning left, all others turn right on course. **Rwy 22**, climb heading 215° to 9100 before turning left, all others turn right on course. **Rwy 35**, climb heading 349° to 11000 before turning right, all others turn left on course.

NOTE: **Rwy 17**, antenna 64' from departure end of runway, 395' left of centerline, 8' AGL/5807' MSL. Tree 3482' from departure end of runway, 1409' right of centerline, 100' AGL/5919' MSL. **Rwy 35**, antenna 53' from departure end of runway, 405' right of centerline, 9' AGL/5808' MSL.

ANGEL FIRE, NM

ANGEL FIRE (AXX)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 17**, use ANEKE
RNAV DEPARTURE.

ASPEN, CO

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)

AMDT 8 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, NA-terrain.
DEPARTURE PROCEDURE: **Rwy 33**, use SARDD
DEPARTURE.

BELEN, NM

ALEXANDER MUNI

TAKE-OFF MINIMUMS: **Rwys 3, 21**, std. with min. climb of 326' per NM to 11700, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 21**, for climb in visual conditions: cross Alexander Municipal Airport at or above 7500.

BUCKLEY AFB (KBKF)

AURORA, CO

Rwy 14, 700-1*

* Or standard with minimum climb of 240'/NM to 5700.

TAKE-OFF OBSTACLES: Rwy 14: Rising Terrain 5685' to 5700' MSL 975'-1355' from departure end of rwy, 210'-270' right of centerline.

BUENA VISTA, CO

CENTRAL COLORADO RGNL

TAKE-OFF MINIMUMS: **Rwy 15**, std. with a min. climb of 400' per NM to 8200 then 340' per NM to 15500.

Rwy 33, NA-due to terrain.

DEPARTURE PROCEDURE: **Rwy 15**, use PUEBLO RNAV DEPARTURE. **Rwy 33**, NA-due to terrain.

NOTE: **Rwy 15**, tree 4468' from departure end of runway, 659' right of centerline, 60' AGL/8159' MSL.

BUTTS AAF (KFCS)

FORT CARSON, CO

.....Rwy 31, 400-1*

* Or standard with a minimum climb of 210'/NM to 6100'.

Rwy 13 climbing left turn heading 080° within 1 mile.

Rwy 31 climbing right turn heading 80° within 1 mile.

All aircraft continue climb via hdg 080° until joining V-81.

CANNON AFB (KCVS),

CLOVIS, NM.(07354 USAF)

DIVERSE DEPARTURES AUTHORIZED ALL RWYS

TAKE-OFF OBSTACLES: **Rwy 04**: Terrain 4304'

MSL, 0' from DER, 25' to 222' right of centerline.

Terrain 4305' MSL, 16' to 268' from DER, 500' left of

centerline. Terrain 4329' MSL, 1124' from DER, 800' left of centerline.

Rwy 13: Terrain 4284' MSL, 0' to 409' from DER, 41' to 500' left of centerline. Terrain 4280' MSL, 66' to 528' from DER, 500' to 585' right of centerline.

Rwy 22: Terrain 4295' MSL, 0' to 538' from DER, 61' to 636' left of centerline. Terrain 4281' MSL, 66' from DER, 258' right of centerline.

Rwy 31: Terrain 4294' MSL, 0' from DER, 500' left of centerline. Terrain 4304' MSL, 370' from DER, 588' left of centerline. Power Pole 25' AGL/4357' MSL, 2517' from DER, 98' left of centerline. Terrain 4314' MSL, 197' to 317' from DER, 500' to 585' right of centerline.

CANON CITY, CO

FREMONT COUNTY

TAKE-OFF MINIMUMS: **Rwy 29**, 4600-2 or std. with a min. climb of 450' per NM to 10400.

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading. **Rwy 29**, turn left heading 115°.

All aircraft intercept and climb via PUB VORTAC R-262 (V244) PUB VORTAC before proceeding on course.

CLAYTON, NM

CLAYTON MUNI

TAKE-OFF MINIMUMS: **Rwy 30**, 1300-1 or std. with a min. climb of 244' per NM until 6700.

COLORADO SPRINGS, CO

CITY OF COLORADO SPRINGS MUNI

TAKE-OFF MINIMUMS: **Rwy 30**, 600-2 or std. with a min. climb of 220' per NM to 6900.

DEPARTURE PROCEDURE: **Rwys 12, 17L, 17R**, turn left. **Rwys 30, 35L, 35R**, turn right. **All aircraft** climb direct BRK VORTAC. Aircraft departing on BRK R-325 CW R-153 climb on course. Aircraft departing BRK R-154 CW R-324 climb in BRK holding pattern (NW, left turns, 154° inbound) to cross BRK VORTAC at or above 14000.

CORTEZ, CO

CORTEZ MUNI

TAKE-OFF MINIMUMS: **Rwy 3**, 300-2 or std. w/ min. climb of 220' per NM to 6300. **Rwy 21**, 1000-2.

DEPARTURE PROCEDURE: **Rwy 3**, left turn.

Rwy 21, right turn, climbing direct to CEZ VOR.

Aircraft northwestbound V391 continue climb on course to 9800 or above; southeastbound V391, V211, and direct HBU VOR/DME, continue climb on R-295 to 8000, left climbing turn to recross CEZ VOR at or above 9400.

Aircraft enroute HBU VOR/DME and able to climb 230' per NM to 15000 may climb on course (CEZ R-034) to 16300 or above.

NOTE: **Rwy 3**, tree 1.7 NM from departure end of runway, 2964' left of centerline, 6096 AGL/6196 MSL.

CRAIG, CO

CRAIG-MOFFAT

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 800-1¼, or std. with a min. climb of 400' per NM to 7000.

DEPARTURE PROCEDURE: **Rwys 7, 25**, climb direct CHE VOR/DME and hold (W, right turns, 108° inbound) climbing to: aircraft departing CHE R-213 CW R-296 depart on course; all others continue climbing to cross CHE at or above; CHE R-076 CW R-114 10500, R-115 CW R-212 11300, and R-297 CW R-076 11300.

DEMING, NM

DEMING MUNI

TAKE-OFF MINIMUMS: **Rwy 4**, NA.

DEPARTURE PROCEDURE: WESTBOUND: **Rwy 8**, climbing left turn heading 214°; **Rwy 22**, climbing right turn heading 302°; **Rwy 26**, climbing right turn heading 275°; intercept DMN VORTAC R-258 then via V94 on course. EASTBOUND: **Rwy 8**, climb direct DMN VORTAC; **Rwys 22, 26**, climbing right turn direct DMN VORTAC; then via V94 on course. NORTHBOUND: **Rwy 8**, climb direct DMN VORTAC; **Rwys 22, 26**, climbing right turn direct DMN VORTAC; then via V110 on course.

DENVER, CO

CENTENNIAL (APA)

AMDT 4 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17L**, std. w/ min. climb of 253' per NM to 6900. **Rwy 17R**, std. w/ min. climb of 370' per NM to 6900.

DEPARTURE PROCEDURE: **Rwy 10**, when departing on course between 159° CCW to 330° from departure end of runway climb heading 100° to 6300. All other courses: climbing left turn heading 326° to intercept DEN VOR/DME R-191 to DEN VOR/DME, thence ... **Rwys 17L, 17R**, climb on a heading between 346° CW to 159° from departure end of runway. All other courses: climbing left turn heading 331° to intercept DEN VOR/DME R-196 to DEN VOR/DME, thence ... **Rwy 28**, climb on a heading between 330° CW to 100° from departure end of runway. All other courses: climbing right turn heading 072° to intercept DEN VOR/DME R-207 to DEN VOR/DME, thence ... **Rwy 35L**, climb on a heading between 330° CW to 159° from departure end of runway. All other courses: climb heading 346° to intercept DEN VOR/DME R-208 to DEN VOR/DME, thence ... **Rwy 35R**, climb on a heading between 330° CW to 159° from departure end of runway. All other courses: climb heading 347° to intercept DEN VOR/DME R-208 to DEN VOR/DME, thence ...

... Climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 10**, terrain beginning 238' from departure end of runway, 30' right of centerline, up to 5859' MSL. Fences beginning 1211' from departure end of runway, 233' right of centerline, up to 8' AGL/5841' MSL. Multiple bushes beginning 1378' from departure end of runway, 284' right of centerline, up to 6' AGL/5840' MSL. Multiple roads with vehicles beginning 198' from departure end of runway, 404' left of centerline, up to 15' AGL/5835' MSL. Terrain 1357' from departure end of runway, 253' left of centerline, 5829' MSL. **Rwy 17L**, multiple trees beginning 2968' from departure end of runway, 761' right of centerline, 100' AGL/5976' MSL. **Rwy 17R**, terrain 181' from departure end of runway, 496' right of centerline, 5887' MSL. Fence 538' from departure end of runway, 196' right of centerline, 8' AGL/5889' MSL. Multiple trees beginning 562' from departure end of runway, 61' right of centerline, up to 16' AGL/5976' MSL. Multiple light poles beginning 2362' from departure end of runway, 256' right of centerline, up to 30' AGL/5942' MSL. Vehicles on roads beginning 2812' from departure end of runway, on centerline, up to 17' AGL/5946' MSL. Obstruction light on building 3282' from departure end of runway, 842 feet right of centerline, 90' AGL/6021' MSL. **Rwy 28**, terrain beginning 89' from departure end of runway, from 513' left to 137' right of centerline, up to 5849' MSL. Windsock 100' from departure end of runway, 183' left of centerline, 15' AGL/5832' MSL. Multiple trees beginning 1640' from departure end of runway, 731' left of centerline, up to 100' AGL/5959' MSL. **Rwy 35L**, terrain beginning 54' from departure end of runway, 110' right of centerline, up to 5829' MSL.

DENVER, CO (CON'T)

DENVER INTL (DEN)

AMDT 2 08213 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb on a heading between 312° CW to 215° from departure end of runway. All other courses: climbing right turn, thence ... **Rwy 8**, climb on a heading between 307° CW to 218° from departure end of runway. All other courses: climbing right turn, thence ... **Rwys 16L, 16R**, climb on a heading between 210° CCW to 350° from departure end of runway. All other courses: climbing left turn, thence ... **Rwys 17L, 17R**, climb on a heading between 219° CCW to 350° from departure end of runway. All other courses: climbing right turn, thence ... **Rwy 25**, climb on a heading between 314° CW to 080° or 203° CCW to 080° from departure end of runway. All other courses: climbing left turn, thence ... **Rwy 26**, climb on a heading between 310° CW to 080° or 216° CCW to 080° from departure end of runway. All other courses: climbing left turn, thence ... **Rwys 34L, 34R**, climb on a heading between 310° CW to 169° from departure end of runway. All other courses: climbing right turn, thence ... **Rwys 35L, 35R**, climb on a heading between 310° CW to 169° from departure end of runway. All other courses: climbing left turn, thence ...
... direct DEN VOR/DME, climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 8**, multiple trees beginning 115' from departure end of runway, 444' right of centerline, up to 100' AGL/5389' MSL. **Rwy 16L**, tower 4722' from departure end of runway, 1359' left of centerline, 153' AGL/5473' MSL. Antenna on obstruction light tower 4746' from departure end of runway, 1358' left of centerline, 153' AGL/5473' MSL. **Rwy 17L**, multiple trees beginning 247' from departure end of runway, 543' right of centerline, up to 100' AGL/5489' MSL. **Rwy 17R**, multiple trees beginning 1457' from departure end of runway, 759' right of centerline, up to 100' AGL/5529' MSL. **Rwy 25**, multiple trees beginning 303' from departure end of runway, 557' right of centerline, up to 100' AGL/5439' MSL. **Rwy 34L**, multiple trees beginning 273' from departure end of runway, 537' right of centerline, up to 100' AGL/5399' MSL. **Rwy 34R**, multiple trees beginning 471' from departure end of runway, 580' right of centerline, up to 100' AGL/5449' MSL. **Rwy 35L**, terrain beginning 149' from departure end of runway, 34' right of centerline, up to 5414' MSL.

DENVER, CO (CON'T)

FRONT RANGE (FTG)
AMDT 2 08213 (FAA)

DEPARTURE PROCEDURE: **Rwy 8**, climb on a heading between 310° CW to 225° from departure end of runway. All other courses: climbing left turn, then... **Rwy 17**, climb on a heading between 350° CW to 226° from departure end of runway. All other courses: climbing right turn, then... **Rwy 26**, climb on a heading between 311° CW to 080° or between 224° CCW to 080° from departure end of runway. All other courses: climbing right turn, then... **Rwy 35**, climb on a heading between 310° CW to 169° from departure end of runway. All other courses: climbing left turn, then...

... Direct DEN VOR/DME, climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 17**, multiple trees beginning 247' from departure end of runway, 534' left of centerline, up to 50' AGL/5629' MSL. Multiple trees beginning 293' from departure end of runway, 555' right of centerline, up to 50' AGL/5599' MSL. Pole 3618' from departure end of runway, 516' left of centerline, 92' AGL/5603' MSL. **Rwy 26**, multiple trees beginning 255' from departure end of runway, 317' left of centerline, up to 50' AGL/5499' MSL. Multiple trees beginning 272' from departure end of runway, 498' right of centerline, up to 50' AGL/5479' MSL.

ROCKY MOUNTAIN METROPOLITAN (BJC)

AMDT 4 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29L**, 200-1 or std. w/ min. climb of 402' per NM to 5900.

DEPARTURE PROCEDURE: **Rwy 2**, climb on a heading between 350° CW to 160° from departure end of runway. All other courses: climbing right turn heading 147° to intercept DEN VOR/DME R-282 to DEN VOR/DME, then... **Rwys 11L, 11R**, climb on a heading between 160° CCW to 350° from departure end of runway. All other courses: climb heading 113° to intercept DEN VOR/DME R-272 to DEN VOR/DME, then... **Rwy 20**, climb on a heading between 160° CCW to 024° from departure end of runway. All other courses: climbing left turn heading 044° to intercept DEN VOR/DME R-269 to DEN VOR/DME, then... **Rwy 29R**, climb on a heading between 350° CW to 113° from departure end of runway. All other courses: climbing right turn heading 142° to intercept DEN VOR/DME R-277 to DEN VOR/DME, then... **Rwy 29L**, climb on a heading between 350° CW to 113° from departure end of runway. All other courses: Climbing right turn heading 142° to intercept DEN VOR/DME R-276 to DEN VOR/DME, then...

... climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 2**, pole 432' from departure end of runway, 370' right of centerline, 49' AGL/5619' MSL. **Rwy 29L**, terrain beginning 45' from departure end of runway 292' left of centerline, up to 5839' MSL. Fence 1015' from departure end of runway 392' left of centerline, 15' AGL/5725' MSL. Fence 982' from departure end of runway 303' left of centerline, 14' AGL/5714' MSL. Multiple trees beginning 687' from departure end of runway 615' right of centerline up to 70' AGL/5839' MSL. Tree 3196' from departure end of runway 1337' left of centerline, 70' AGL/5839' MSL.

DURANGO, CO

DURANGO-LA PLATA COUNTY (DRO)
AMDT 6A 09015

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min. climb of 215' per NM to 7600, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to 9000 heading 160° and DRO VOR/DME R-125 to RESER INT, or for climb in visual conditions: Cross Durango-La Plata County Airport Southeast bound at or above 8200 MSL, then proceed on DRO VOR/DME R-125 to RESER INT. **Rwy 21**, climbing right turn to 9500 heading 280° and DRO VOR/DME R-235 to MARKE INT.

NOTE: **Rwy 3**, trees beginning 1223' from departure end of runway, 794' left of centerline, up to 42' AGL/6741' MSL. Trees beginning 488' from departure end of runway, 431' right of centerline, up to 42' AGL/6698' MSL, vehicles on road beginning 8' from departure end of runway, right and left of centerline, up to 15' AGL/6706' MSL.

EAGLE, CO

EAGLE COUNTY RGNL (EGE)
AMDT 7 09239 (FAA)

DEPARTURE PROCEDURE: use GYPSUM DEPARTURE.

ERIE, CO

ERIE MUNI

TAKE-OFF MINIMUMS: **Rwy 15**, 500-2 or std. with a min. climb gradient of 270' per NM to 5700.

DEPARTURE PROCEDURE: **Rwys 9, 15**, turn right; **Rwys 27, 33**, turn left; climb direct BJC VOR/DME. Departures on BJC R-340 CW R-150 climb on course. All others climb in BJC holding pattern (NE, left turns 203° inbound) to cross BJC VOR/DME at or above 13300, or comply with RADAR vectors.

FARMINGTON, NM

FOUR CORNERS RGNL

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA.
DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 6300 before turning left. **Rwy 23**, climb runway heading to 6500 before turning left.

FORT COLLINS, CO

FORT COLLINS-LOVELAND MUNI (FNL)
AMDT 5 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA-VFR runway.
DEPARTURE PROCEDURE: **Rwy 15**, climb on heading between 117° CCW to 329° from departure end of runway. All other courses: climbing left turn heading 017° to intercept GLL VORTAC R-242 to GLL VORTAC, then... **Rwy 33**, climb on heading between 323° CW to 148° from departure end of runway. All other courses: climbing right turn heading 122° to intercept GLL VORTAC R-257 to GLL VORTAC, then...
...climb in GLL VORTAC holding pattern (hold NE, right turns, 205° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 33**, multiple trees beginning 833' from departure end of runway, 516' right of centerline, up to 66' AGL/5025' MSL. Multiple poles beginning 567' from departure end of runway, 540' left of centerline, up to 26' AGL/4995' MSL.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

GALLUP, NM

GALLUP MUNI

TAKE-OFF MINIMUMS: **Rwy 6**, CAT A,B 1300-2 or std. with a min. climb of 300' per NM until passing 8000.

CAT C,D 1600-3 or std. with a min. climb of 320' per NM until passing 8500. **Rwy 24**, 700-2 or std. with a min. climb of 370' per NM until passing 8000.

DEPARTURE PROCEDURE: **Rwy 6**, turn left.

All aircraft climb direct GUP VORTAC. Departures via GUP R-190 CW R-242 climb on course. Departures via GUP R-243 CW R-189 climb in GUP holding pattern (SW, right turns, 047° inbound) to cross GUP at or above 9000.

GRAND JUNCTION, CO

GRAND JUNCTION RGNL (GJT)

AMDT 11 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, NA-obstacles. **Rwy 22**,

NA-obstacles, facility reception (JNC VORTAC).

DEPARTURE PROCEDURE: **Rwys 11, 29**, use MONUMENT DEPARTURE.

GRANTS, NM

GRANTS-MILAN MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 2400-2 or std. with a min. climb of 420' per NM to 11000. **Rwy 31**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to join V12 at or above 11000 before proceeding on course.

GREELEY, CO

GREELEY-WELD COUNTY (GXY)

AMDT 3 08241 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climb on a heading between 289° CW to 211° from departure end of runway.

All other courses: climbing left turn, thence... **Rwy 16**, climb on a heading between 209° CCW to 347° from departure end of runway. All other courses: climbing left turn, thence... **Rwy 27**, climb on a heading between 291° CW to 094° or 206° CCW to 094° from departure end of runway. All other courses: climbing right turn, thence... **Rwy 34**, climb on a heading between 290° CW to 166° from departure end of runway. All other courses: climbing right turn, thence...

...direct GLL VORTAC, climb in GLL VORTAC holding pattern (hold NE, right turns, 205° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 27**, tree 1634' from departure end of runway, 836' left of centerline, 56' AGL/4717' MSL, fence 237' from departure end of runway, 422' right of centerline, 9' AGL/4670' MSL, fence 99' from departure end of runway, 423' left of centerline, 4' AGL/4665' MSL. **Rwy 34**, multiple trees beginning 1860' from departure end of runway, 595' right of centerline, up to 67' AGL/4785' MSL, tree 2854' from departure end of runway, 524' left of centerline, 73' AGL/4770' MSL.

GUNNISON, CO

GUNNISON-CRESTED BUTTE RGNL

TAKE-OFF MINIMUMS: **Rwy 6**, 1600-3 or 600-2 with a min. climb of 550' per NM to 9500. **Rwy 24**, 1200-3 or 400-2 with a min. climb of 350' per NM to 9500.

Rwys 17, 35, NA.

DEPARTURE PROCEDURE: **Rwy 6**, at departure end of runway, climb heading 072° to 9500 then climbing right turn direct HBU VOR/DME. Aircraft unable to maintain 550' per NM must maneuver visually to depart the 11 DME fix inbound to the HBU VOR/DME on the HBU R-062 at or above 9200. **Rwy 24**, climb runway heading to 8400 then climbing left turn direct HBU VOR/DME. Aircraft unable to maintain 350' per NM must maneuver visually to depart the 4 DME fix inbound to the HBU VOR/DME on the HBU R-010 at or above 8800.

All aircraft continue climbing in HBU holding pattern (SW, left turns, 031° inbound) to depart HBU VOR/DME at or above: R-261 CW R-280, 10800; R-281 CW R-189 and R-191 CW R-260, 13000; R-190, 12500.

HAYDEN, CO

YAMPA VALLEY (HDN)

AMDT 3 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 400' per NM to 12200, or 3200-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 245' per NM to 9500, or 3200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb on heading 147° to 12200 before proceeding on course. **Rwy 28**, climb on heading 238° to 9500 before proceeding on course. **Rwys 10, 28**, for climb in visual conditions: cross Yampa Valley airport at or above 9700 before proceeding on course.

NOTE: **Rwy 10**, tree 241' from DER, 420' right of centerline, 100' AGL/6699' MSL. Tree 644' from DER, 340' left of centerline, 100' AGL/6699' MSL. Multiple transmission towers, beginning 3606' from DER, left to right of centerline, up to 145' AGL/6745' MSL. Terrain beginning 1714' from DER, 707' right of centerline, up to 6676' MSL.

HOBBS, NM

LEA COUNTY RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ a min. climb of 218' per NM to 4300, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1600' prior to departure end of runway.

NOTE: **Rwy 3**, multiple trees beginning 546' from departure end of runway, 811' right of centerline, up to 40' AGL/3700' MSL. Sign 822' from departure end of runway, 694' left of centerline, 38' AGL/3676' MSL. **Rwy 8**, tower 3 NM from departure end of runway, 2587' right of centerline, 515' AGL/4120' MSL. **Rwy 12**, road at departure end of runway, 112' right of centerline, 15' AGL/3654' MSL. **Rwy 17**, obstruction light on glideslope, 1014' from departure end of runway, 486' right of centerline, 37' AGL/3687' MSL. **Rwy 21**, tree 1304' from departure end of runway, 726' right of centerline, 46' AGL/3690' MSL. **Rwy 26**, road 253' from departure end of runway, across centerline, 15' AGL/3669' MSL. **Rwy 30**, wind sock 103' from departure end of runway, 280' left of centerline, 16' AGL/3675' MSL, pole 1035' from departure end of runway, 540' right of centerline, 25' AGL/3689' MSL. **Rwy 35**, multiple fences, roads and poles beginning 103' from departure end of runway, across centerline, up to 37' AGL/3696' MSL, pole 299' from departure end of runway, 495' left of centerline, 25' AGL/3689' MSL, pole 293' from departure end of runway, 94' right of centerline, 25' AGL/3682' MSL.

HOLLOMAG AFB (KHMN),

ALAMOGORDO, NM ORIG, 08101

Rwy 7, NA
Rwy 16, 8000-3*
Rwy 22, 8000-3**
Rwy 25, 8000-3*
Rwy 34, 8000-3***

* Or standard with minimum climb of 510'/NM to 14,100.
 ** Or standard with minimum climb of 470'/NM to 14,100.
 *** Or standard with minimum climb of 490'/NM to 14,100.

Rwy 16, 22, 25, 34, RADAR REQUIRED (when R-5103C not under Holloman Approach or Cherokee control).

TAKE-OFF OBSTACLES: **Rwy 16**, Terrain 4052' MSL, 46' from DER, 512' left of centerline; Terrain 4052' MSL, 16' from DER, 500' left of centerline; Terrain 4052' MSL, 12' from DER, 503' left of centerline; Vehicle on road 15' AGL/4180' MSL, 589' from DER, 1170' right of centerline; Building 17' AGL/4070' MSL, 67' from DER, 283' right of centerline. **Rwy 22**, Terrain 4058' MSL, 4' from DER, 63' left of centerline; Terrain 4060' MSL, 127' from DER, 534' right of centerline; Terrain 4059' MSL, 0' from DER, 500' right of centerline; Vehicle on road 10' AGL/4190' MSL, 1963' from DER, 422' right of centerline; Vehicle on road 10' AGL/4190' MSL, 1977' from DER, 90' right of centerline. **Rwy 25**, Vehicle on road 10' AGL/4190' MSL, 4387' from DER, 14' left of centerline; Vehicle on road 10' AGL/4190' MSL, 4225' from DER, 303' left of centerline; Vehicle on road 15' AGL/4190' MSL, 1812' from DER, 1464' left of centerline.

HOLYOKE, CO

HOLYOKE

NOTE: **Rwy 14**, trees 2012' from departure end of runway, 29' left of centerline, 100' AGL/3829' MSL. **Rwy 32**, trees 1009' from departure end of runway, 697' left of centerline, 100' AGL/3839' MSL.

KREMMLING, CO

MC ELROY AIRFIELD

TAKE-OFF MINIMUMS: **Rwy 9**, 2600-2 or std. with a min. climb of 370' per NM to 12700. **Rwy 27**, 3200-2 or std. with a min. climb of 500' per NM to 12700.
 DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 10000, then climbing right turn. **Rwy 27**, climb runway heading to 10900, then climbing left turn. **All aircraft** proceed direct RLG VOR/DME. Continue climb to 13,000 in RLG holding pattern (hold SW, left turns, 051° inbound).

LA JUNTA, CO

LA JUNTA MUNI

DEPARTURE PROCEDURE: **Rwy 8**, climb via heading 080°. **Rwy 12**, climb via heading 120°. **Rwy 26**, turn left heading 160°. **Rwy 30**, turn left heading 140°. **All aircraft**, intercept LAA R-238 (V210) to LAA VORTAC. When at or above 8000 proceed on course.

LAMAR, CO

LAMAR MUNI

DEPARTURE PROCEDURE: **Rwys 8, 36**, turn left. **Rwy 18**, turn left/right. **Rwy 26**, turn right. Direct LAA VORTAC. Aircraft departing LAA R-048 CW R-118 climb on course. All others continue climbing in LAA holding pattern (N, right turns, 169° inbound) to 6000 before proceeding on course.

LAS CRUCES, NM

LAS CRUCES INTL

DEPARTURE PROCEDURE: **Rwys 4, 8**, climbing right turn. **Rwy 12**, CAT A,B, climb runway heading CAT C,D, NA. **Rwys 22, 26**, climbing left turn. **Rwy 30**, climbing runway heading to 5100 then climbing left turn. **All aircraft** climb direct HAWKE LOM. Continue climb in HAWKE holding pattern (SE, left turns, 304° inbound) to cross HAWKE LOM at or above 10000 before proceeding on course.

LAS VEGAS, NM

LAS VEGAS MUNI

DEPARTURE PROCEDURE: **Rwys 2, 14** turn left/right. **Rwy 20**, turn left (except via FTIR-215). **Rwy 32**, turn right.
 Departures via FTI VORTAC R-001 CW R-215 climb on course. Departures via FTI VORTAC R-216 CW R-360 proceed direct FTI VORTAC. Climb in FTI VORTAC holding pattern (hold north, left turn, 192° inbound) to cross FTI at airway MEA/MCA. (NOTE: climb in hold not authorized for turbojet aircraft)

LEADVILLE, CO

LAKE COUNTY (LXV)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, use LOZUL (RNAV) DEPARTURE. **Rwy 34**, use DAVVY (RNAV) DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

LONGMONT, CO

VANCE BRAND

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1 or std. with a min. climb of 250' per NM until passing 5400.

Rwy 29, CAT A,B 1900-3 or std. with a min. climb of 380' per NM until passing 7000. CAT C,D NA.

DEPARTURE PROCEDURE: Comply with RADAR vectors, or: **Rwys 11, 29**, turn right climb direct BJC VOR/DME. Departures on BJC R-340 CW R-150 climb on course. All others climb in BJC holding pattern (NE, left turns, 203° inbound) to cross BJC VOR/DME at or above 13300.

NOTE: Climb in holding NA for turbojet aircraft.

LOS ALAMOS, NM

LOS ALAMOS

TAKE-OFF MINIMUMS: **Rwy 27**, NA-obstacles and airport restriction.

DEPARTURE PROCEDURE: **Rwy 9**, climb via heading 092° until intercepting SAF VORTAC R-354. Northbound proceed via V83 climbing to 11000. Southbound proceed via V83 at 9000.

LOVINGTON, NM

LEA COUNTY-ZIP FRANKLIN MEMORIAL

DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 4700 before turning on course. **Rwy 12**, 35' AGL powerline 1250' from departure end of runway 150' right of centerline. **Rwy 21**, 40' AGL tower 936' from departure end of runway 273' right of centerline.

Rwy 30, 50' AGL windmill 1800' from departure end of runway 50' right of centerline.

MEEKER, CO

MEEKER (EEO)

AMDT 1 08157

TAKE-OFF MINIMUMS: **Rwys 3, 21**, 4100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 21**, for climb in visual conditions: cross Meeker Airport at or above 10500 before proceeding on course.

NOTE: **Rwy 21**, multiple trees beginning 843' from departure end of runway, 20' left of centerline, up to 100' AGL/7190' MSL. Multiple trees beginning 227' from departure end of runway, 187' right of centerline, up to 100' AGL/6862' MSL.

MONTE VISTA, CO

MONTE VISTA MUNI

DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn. **Rwy 20**, climbing left turn. **All aircraft**, climb direct ALS VORTAC, continue climb in ALS holding pattern (SE, right turns, 301° inbound) to cross ALS VORTAC at or above 11,000, except V210 westbound 11,200 and J102 northeastbound 13,700, before proceeding enroute.

MONTROSE, CO

MONTROSE RGNL (MTJ)

AMDT 4 09127 (FAA)

DEPARTURE PROCEDURE: Use MONTROSE DEPARTURE.

NUCLA, CO

HOPKINS FIELD

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA-environmental DEPARTURE PROCEDURE: **Rwys 5, 23**, use NUCLA (RNAV) DEPARTURE.

PAGOSA SPRINGS, CO

STEVENS FIELD (PSO)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 437' per NM to 9600, or 1900-3 for climb in visual conditions. **Rwy 19**, std. w/ min. climb of 296' per NM to 9300, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 216° to intercept DRO VOR/DME R-066 to DRO VOR/DME for climb in visual conditions cross Stevens Field airport south bound at or above 9400 MSL, then via DRO VOR/DME R-066 to DRO VOR/DME

Rwy 19, climb via heading 194° to intercept DRO VOR/DME R-075 to DRO VOR/DME for climb in visual conditions cross Stevens Field airport south bound at or above 9400 MSL, then via DRO VOR/DME R-066 to DRO VOR/DME

... thence cross DRO VOR/DME at MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 1**, terrain beginning 30' from departure end of runway, 53' left of centerline, up to 7697' MSL. Terrain beginning 127' from departure end of runway, 69' right of centerline, up to 7681' MSL. Multiple trees beginning 940' from departure end of runway, left and right of centerline, up to 100' AGL/7739' MSL. **Rwy 19**, multiple trees beginning 664' from departure end of runway, 156' left of centerline, up to 100' AGL/7693' MSL. Multiple trees beginning 1625' from departure end of runway, 5' right of centerline, up to 100' AGL/7698' MSL.

PUEBLO, CO

PUEBLO MEMORIAL (PUB)
AMDT 4 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1¾ or standard w/ a min. climb of 254' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 8L**, climb heading 077° to 5500, then climbing left turn via heading 210° and PUB R-040 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 8R**, climb heading 077° to 5400, then climbing left turn via heading 210° and PUB R-040 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight.

Rwy 17, climb heading 167° to 5800, then climbing left turn via heading 050 and PUB R-180 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 26L**, climb heading 257° to 5700, then climbing left turn via heading 070° and PUB R-220 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 26R**, climb heading 257° to 5700, then climbing left turn via heading 070° and PUB R-220 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 35**, climb heading 347° to 5200, then climbing right turn via heading 150° and PUB R-360 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 8L**, rising terrain 57' from DER, 123' left of centerline, up to 4649' MSL. **Rwy 8R**, rising terrain 180' from DER, 58' left of centerline, up to 4659' MSL.

Rwy 26L, rising terrain 110' from DER, 182' right of centerline, up to 4659' MSL, rising terrain 128' from DER, 122' left of centerline, up to 4659' MSL. **Rwy 26R**, rising terrain 208' from DER, 446' right of centerline, up to 4679' MSL. **Rwy 35**, rising terrain 2' from DER, 7' left of centerline, up to 4749' MSL, rising terrain 196' from DER, 11' right of centerline, up to 4793' MSL, transmission poles 1.1 NM from DER, 703' right of centerline, 46' AGL/4925' MSL, radar reflector 996' from DER, on centerline, 4' AGL/4757' MSL.

RATON, NM

RATON MUNI/CREWS FIELD

DEPARTURE PROCEDURE: When weather below 1500-2: **Rwys 2,7**, climb on CIM R-040 northeastbound to 8000, then on course to assigned altitude. **Rwys 20,25**, climb on CIM R-040 southwestbound to 8000, then on course to assigned altitude.

RIFLE, CO

GARFIELD COUNTY RGNL (RIL)
AMDT 8 08157

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ a min. climb of 369' per NM to 12400 or 5400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, DME required. Climb via RIL R-081 to ZOBAB/10 DME, then climbing left turn direct RIL VOR/DME. Climb in RIL VOR/DME holding pattern (Hold E, right turn, 263° inbound) to cross RIL VOR/DME at or above MEA/MCA before proceeding enroute, or for climb in visual conditions cross Garfield County Rgnl Airport at or above 10800 before proceeding on course. **Rwy 26**, use SQUAT RNAV DEPARTURE.

NOTE: **Rwy 8**, transmission line towers beginning 1.2 NM from departure end of runway, 437' right of centerline, up to 150' AGL/6069' MSL. Trees beginning 1.9 NM from departure end of runway, 647' right of centerline, up to 100' AGL/5983' MSL. Terrain beginning 124' from departure end of runway, 287' right of centerline, up to 5863' MSL. Pole 1083' from departure end of runway, 656' right of centerline, 28' AGL/5588' MSL.

ROSWELL, NM

ROSWELL INTL AIR CENTER

DEPARTURE PROCEDURE: **Rwy 30**, climb to 6000 via runway heading to intercept CME R-323, upon reaching 6000 proceed on course. **Rwy 35**, climbing left turn to 6000 via heading 277° to intercept CME R-323, upon reaching 6000 proceed on course.

RUIDOSO, NM

SIERRA BLANCA RGNL

TAKE-OFF MINIMUMS: **Rwys 6,24**, 5200-3 or std. with a min. climb of 420' per NM to 12,100'.

DEPARTURE PROCEDURE: **Rwy 6**, climb at 385' per NM to 9100' direct CEP NDB, continue climb in holding pattern (*hold E, left turns, 273° inbound) to cross CEP NDB at or above the MEA for direction of flight. *Do not exceed 230 kts in holding pattern. **Rwy 24**, immediate climbing left turn to 9100' direct CEP NDB, continue climb in holding pattern (*hold E, left turns, 273° inbound) to cross CEP NDB at or above the MEA for direction of flight. *Do not exceed 230 kts in holding pattern.

SALIDA, CO

HARRIET ALEXANDER FIELD (ANK)
ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 6800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 6, 24**, For climb in visual conditions: Cross Harriet Alexander Field at or above 14200 MSL before proceeding on course.

NOTE: **Rwy 24**, Multiple transmission towers beginning 666' from departure end of runway, 440' right of centerline, up to 73' AGL/7651' MSL. Multiple trees beginning 5455' from departure end of runway, 663' right of centerline, up to 100' AGL/7908' MSL.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SANTA FE, NM

SANTA FE MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 1000-3 or std. w/ a min. climb of 240' per NM until passing 7300 MSL. **Rwys 2, 33**, Cats. C and D, 2900-3 or std. w/ a min. climb of 330' per NM until 9000 MSL.
DEPARTURE PROCEDURE: **Rwys 2, 10, 33**, turn right; **Rwys 20, 28**, turn left; **Rwy 15**, climb runway heading. **All aircraft** climb direct to SAF VORTAC. Continue climbing in SAF VORTAC holding pattern (hold SE, right turns, 332° inbound) to cross SAF VORTAC at or above airway MEA/MCA for direction of flight.

SANTA TERESA, NM

DONA ANA COUNTY AT SANTA TERESA

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ a min. climb of 419' per NM to 8400, or 2800-3 for climb in visual conditions. **Rwy 28**, std. w/ a min. climb of 358' per NM to 8400, or 2800-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 10, 28**, for climb in visual conditions: cross Dona Ana County at Santa Teresa Airport at or above 6800 before proceeding on course.

SILVER CITY, NM

GRANT COUNTY

TAKE-OFF MINIMUMS: **Rwys 3, 8, 12, 17, 21, 26, 30, 35**, std. w/ a min. climb of 354' per NM to 9200, or 3800-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 3, 8, 12, 17, 21, 26, 30, 35**, for climb in visual conditions: cross Grant County Airport at or above 9200.
NOTE: **Rwy 3**, crane 5007' from departure end of runway, 1056' right of centerline, 200' AGL/5610' MSL. **Rwy 8**, pole 1.12 NM from departure end of runway, 381' right of centerline, 30' AGL/5383' MSL. Power line 2.18 NM from departure end of runway, 139' right of centerline, 200' AGL/5520' MSL. **Rwy 12**, pole 5265' from departure end of runway, 490' right of centerline, 72' AGL/5417' MSL. **Rwy 17**, pole 1.02 NM from departure end of runway, 469' left of centerline, 50' AGL/5408' MSL. **Rwy 21**, multiple bushes beginning from 4556' from departure end of runway, 79' right of centerline, up to 40' AGL/5403' MSL.

SOCORRO, NM

SOCORRO MUNI (ONM)

AMDT 3 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 15, 24**, NA-terrain. **Rwy 33**, 200-1¼ or std. w/ min. climb of 216' per NM to 5100, or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1500' prior to DER.
DEPARTURE PROCEDURE: **Rwy 33**, climbing right turn via heading 030° and ONM VORTAC R-179 to ONM VORTAC, continue climb-in-hold (hold North, right turns, 182° inbound) to cross ONM VORTAC at or above MEA/MCA for direction of flight.
NOTE: **Rwy 33**, trees beginning 67' from DER, 66' left of centerline, up to 15' AGL/4814' MSL. Trees beginning 436' from DER, 438' right of centerline, up to 15' AGL/4814' MSL. Tower 4996' from DER, 1161' left of centerline, 147' AGL/4947' MSL. Tower 5851' from DER, 584' right of centerline, 200' AGL/4956' MSL.

SPRINGFIELD, CO

SPRINGFIELD MUNI (8V7)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 4900-3 or std. w/ a min. climb of 225' per NM to 5000.
NOTE: **Rwy 17**, tower 15212' from departure end of runway, 2936' right of centerline, 425' AGL/4817' MSL.

STEAMBOAT SPRINGS, CO

STEAMBOAT SPRINGS/BOB ADAMS FIELD

TAKE-OFF MINIMUMS: **Rwys 14**, 1500-3 or std. w/ a min. climb of 610' per NM to 9000. **Rwy 32**, 1900-3 or std. w/ a min. climb of 500' per NM to 9000.
DEPARTURE PROCEDURE: **Rwy 14**, turn right heading 220°, intercept BQZ R-172. **Rwy 32**, turn left direct BQZ VOR/DME. **All aircraft** climb to 12100 via BQZ R-172 to SBURG Int and hold (S, right turns, 352° inbound).

STERLING, CO

STERLING MUNI

DEPARTURE PROCEDURE: **Rwys 3, 30, 33**, turn left. **Rwys 12, 15, 21**, turn right climb to 6000 direct toward SNY or AKO VOR/DME before proceeding on course.

TAOS, NM

TAOS RGNL

TAKE-OFF MINIMUMS: **Rwy 4**, 300-1.
DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn. **Rwy 22**, climbing right turn. Intercept TAS R-100. Climbing direct to the TAS VORTAC, continue climb in holding pattern to cross TAS VORTAC at or above the MEA for direction of flight.

TELLURIDE, CO

TELLURIDE RGNL (TEX)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, NA-obstacles. **Rwy 27**, std. w/ min. climb of 457' per NM to 10500, or 5300-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 27**, climb to 12000 via heading 273° to intercept the ETL R-096 to ETL VOR/DME, or for climb in visual conditions: cross Telluride Airport westbound at or above 14200 via ETL R-095 to ETL VOR/DME. NOTE: All aircraft cross ETL VOR/DME at or above airway MEA/MCA for direction of flight.
NOTE: **Rwy 27**, trees beginning 203' from departure end of runway, 186' left of centerline, up to 100' AGL/9124' MSL. Trees beginning 281' from departure end of runway, 45' right of centerline, up to 100' AGL/9219' MSL. Obstruction light on post 2' from departure end of runway, 308' left of centerline, 17' AGL/9095' MSL. Terrain beginning at departure end of runway, left and right of centerline, up to 9075' MSL.

TRINIDAD, CO

PERRY STOKES

TAKE-OFF MINIMUMS: **Rwys 9, 27**, NA
DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwy 21**, turn right, direct TAD NDB. Climb in holding to 7600 (N, left turns, 165° inbound). Aircraft departing TAD NDB bearing 330° CW 140° from TAD NDB: climb on course. Aircraft departing TAD NDB bearing 141° CW 329° from TAD NDB: depart at or above 12,500'.
NOTE: **Rwy 3**, tree 180' from departure end of runway, on centerline, 30' AGL/5765' MSL.

TRUTH OR CONSEQUENCES, NM

TRUTH OR CONSEQUENCES MUNI

TAKE-OFF MINIMUMS: 1500-3 or std. with a min. climb of 500' per NM to 8000.

DEPARTURE PROCEDURE: **Rwys 19,25,29,31**, turn right; **Rwys 1,7,11,13,15,33**, turn left, climb direct TCS VORTAC, continue climb in holding pattern (N, left turns, 180° inbound) to cross TCS VORTAC at above the MEA for direction of flight.

TUCUMCARI, NM

TUCUMCARI MUNI

DEPARTURE PROCEDURE: All **Rwys** for SW-bound V-264 climb TCC R-255 within 10 NM to 5500 before departing on course. **Rwy 21**, climb heading 213° to 5500 before proceeding on course. **Rwy 26**, climb heading 258° to 5500 before proceeding on course.

WALDEN, CO

WALDEN-JACKSON COUNTY (33V)

ORIG 08157

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 4, 22**, Use WALRU RNAV DEPARTURE.

WRAY, CO

WRAY MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, 500-2 or std. with a min. climb of 280' per NM to 4400.

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via AKO VOR/DME R-084 to 7000 before proceeding on course. **Rwy 35**, climbing left turn via AKO VOR/DME R-077 to 7000 before proceeding on course.

NOTE: **Rwy 35**, trees 2175' left of departure end of runway, 100' AGL/3778' MSL.

ZUNI PUEBLO, NM

BLACK ROCK

TAKE-OFF MINIMUMS: **Rwy 7**, 1200-2 or std. with a min. climb of 360 feet per NM to 7600.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn direct ZUN VORTAC. **Rwy 25**, climb direct ZUN VORTAC.

▼

GPS or RNP -0.3 required. DME/DME RNP -0.3 NA.

▲ NA

Baro-VNAV NA below -24°C (-11°F).

MISSED APPROACH: Climb to 7000, via 289° course to JUVPI WP then via 275° track to BACAT WP and hold.

ASOS 135.475	DENVER CENTER 133.95 317.55	UNICOM 122.8 (CTAF) 0
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ELEV 4714

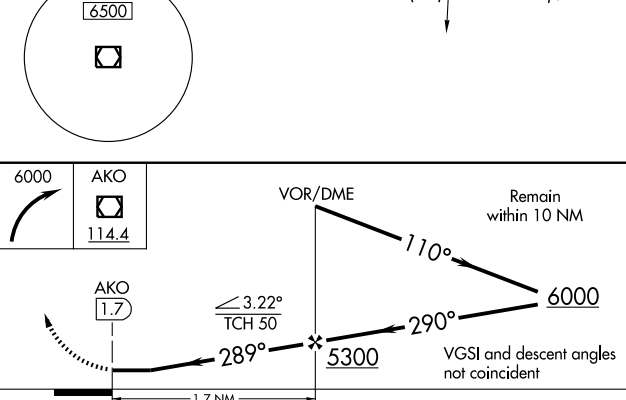
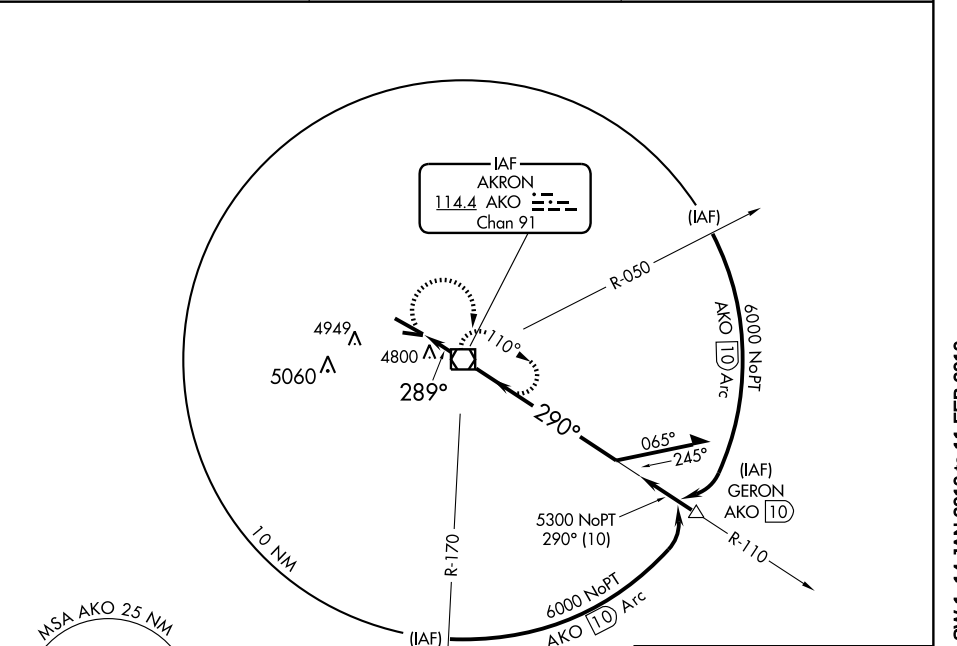
7000 ↑ 289°	JUVPI 275° track	BACAT						
		OWEBY	JUBOS	4 NM Holding Pattern				
		RW29	6300	109° → ← 289°	6400	GS 3.00° TCH 40		
		4.9 NM	6 NM					
CATEGORY	A	B	C	D				
GLS PA DA	NA							
LNAV/VNAV DA	5100-1½ 419 (400-1½)							
LNAV MDA	5100-1 419 (400-1)			5100-1¼ 419 (400-1¼)				
CIRCLING	5180-1½ 466 (500-1½)				5280-2 566 (600-2)			

MIRL Rwy 11-29 0
REIL Rwy 11 and 29

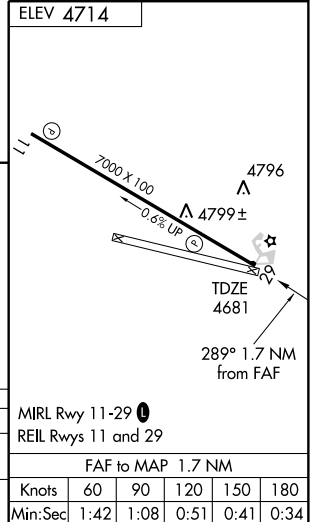
SW-1, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climbing right turn to 6000 direct AKO VOR/DME and hold.

ASOS 135.475	DENVER CENTER 133.95 317.55	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-29	5120-1	439 (500-1)	5120-1¼ 439 (500-1¼)	5120-1½ 439 (500-1½)
CIRCLING	5160-1 446 (500-1)	5180-1 466 (500-1)	5300-1½ 586 (600-1½)	5300-2 586 (600-2)



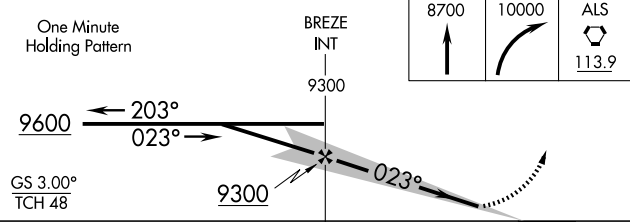
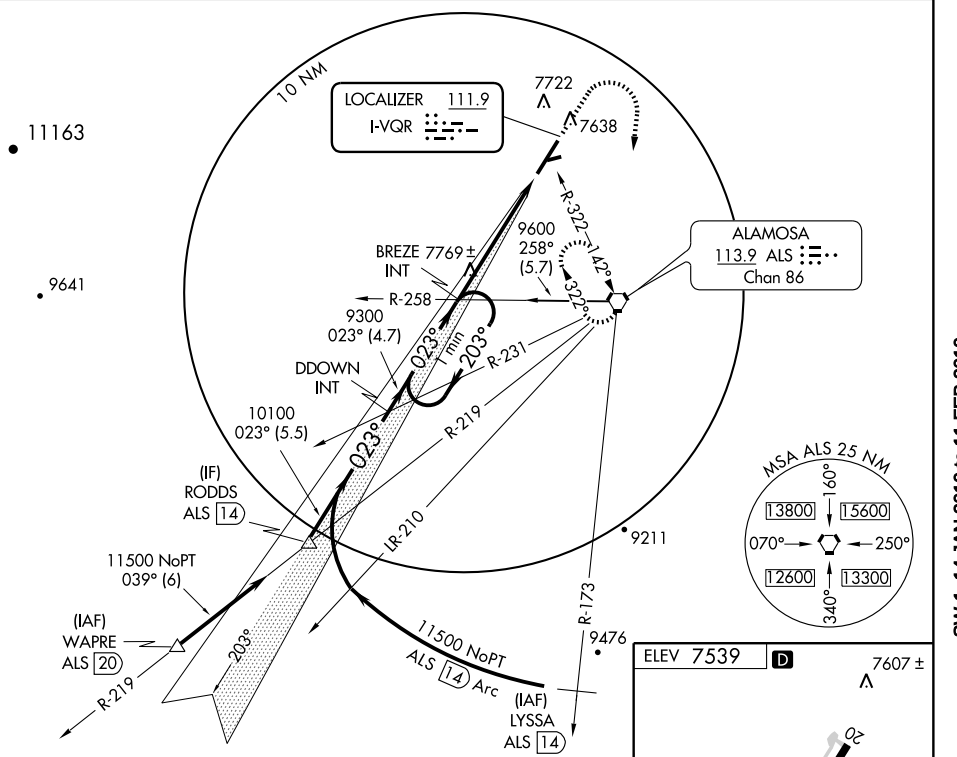
FAF to MAP 1.7 NM					
Knots	60	90	120	150	180
Min:Sec	1:42	1:08	0:51	0:41	0:34

When local altimeter setting not received, procedure NA.

MALS R

MISSED APPROACH: Climb to 8700, then climbing right turn to 10000 direct ALS VORTAC and hold.

ASOS 135.175	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-ILS 2	7739-½ 200 (200-½)			
S-LOC 2	8020-½ 481 (500-½)	8020-¾ 481 (500-¾)	8020-1 481 (500-1)	
CIRCLING	8040-1 501 (600-1)	8040-1½ 501 (600-1½)	8100-2 561 (600-2)	

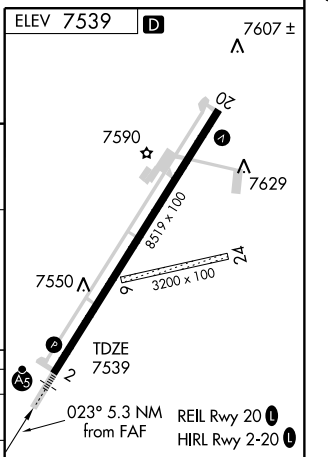
FAC to MAP 5.3 NM

Knots

60 90 120 150 180

Min:Sec

5:18 3:32 2:39 2:07 1:46



SW-1, 14 JAN 2010 to 11 FEB 2010

WAAS
CH 90410
W02A

APP CRS
023°

Rwy Idg
8519
TDZE
7539
Apt Elev
7539

For inoperative MALSRL, increase LNAV/VNAV Cat D visibility to 1 mile. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C (-22°F) or above 34°C (93°F). DME/DME RNP -0.3 NA.

MALSRL

AS

5

MISSED APPROACH: Climb to 10500 direct JADGU and hold.

ASOS 135.175	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF) 0
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7 NM Holding Pattern		LNAV only*		10500	JADGU
11500		DDOWN		BREZE	1.4 NM to RW02*
GS 3.00° TCH 48		10100		9300	RW02
5.5 NM		4.7 NM		3.9	1.4
CATEGORY	A	B	C	D	
LPV DA	7739-1/2 200 (300-1/2)				
LNAV/ DA VNAV	7804-1/2 265 (300-1/2)			7804-3/4 265 (300-3/4)	
LNAV MDA	8020-1/2 481 (500-1/2)		8020-3/4 481 (500-3/4)		8020-1 481 (500-1)
CIRCLING	8040-1 501 (600-1)		8040-1 501 (600-1)		8100-2 561 (600-2)

SW-1, 14 JAN 2010 to 11 FEB 2010

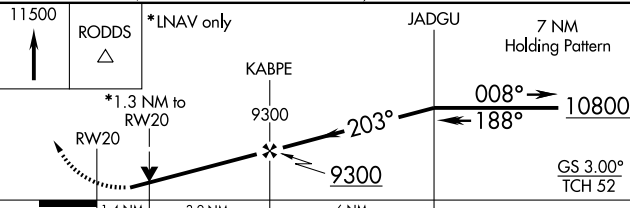
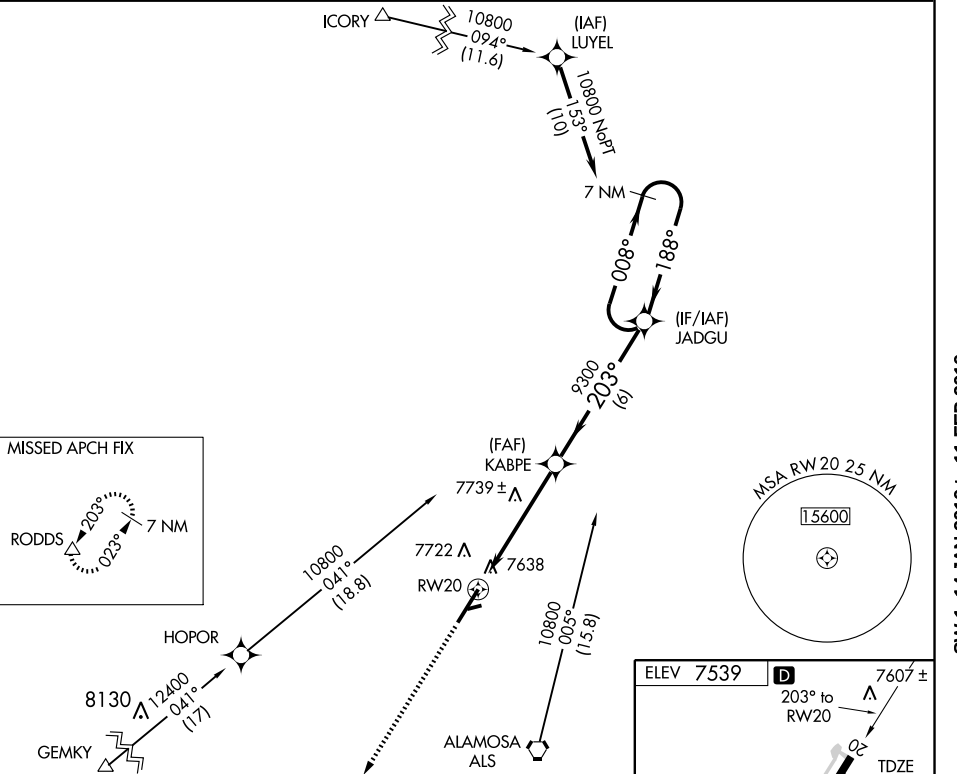
WAAS CH 93500 W20A	APP CRS 203°	Rwy Idg TDZE Apt Elev	8519 7539 7539
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⚠ When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C (-22°F) or above 34°C (93°F).

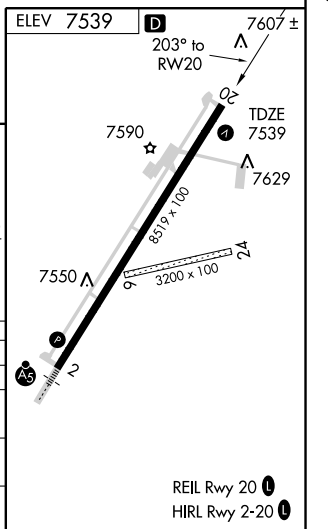
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 11500 direct RODDS and hold, continue climb-in-hold to 11500.

ASOS 135.175	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	7867-1 328 (400-1)			
LNAV/VNAV DA	8002-1½ 463 (500-1½)			
LNAV MDA	8000-1 461 (500-1)	8000-1¼ 461 (500-1¼)	8000-1½ 461 (500-1½)	
CIRCLING	8040-1 501 (600-1)	8040-1½ 501 (600-1½)	8100-2 561 (600-2)	



SW-1, 14 JAN 2010 to 11 FEB 2010

REIL Rwy 20 0
HIRL Rwy 2-20 0

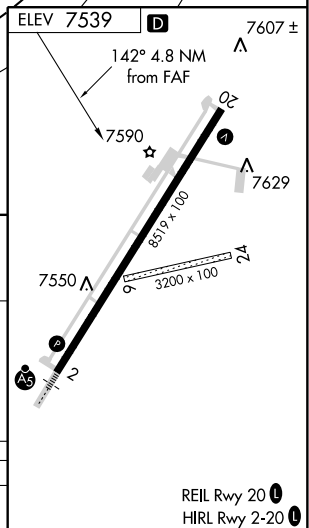
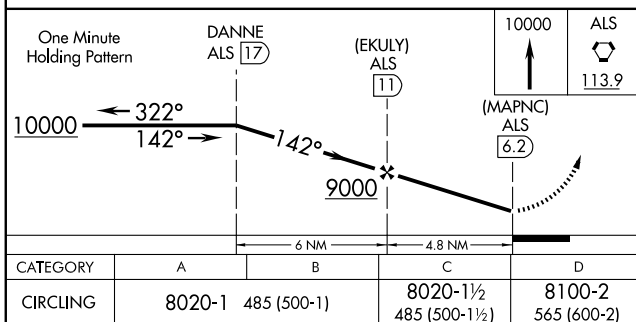
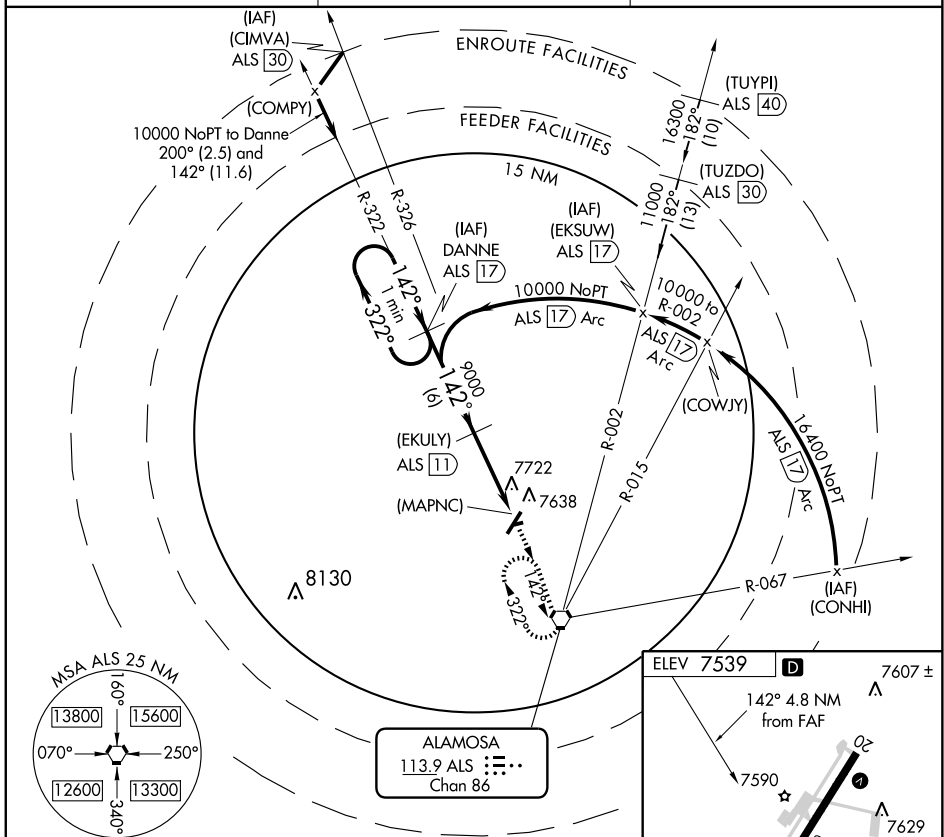
VOR/DME or GPS-B

MISSED APPROACH: Climb to 10000 direct ALS VORTAC and hold.

ASOS
135,175

DENVER CENTER
128,375 379.95

UNICOM
122.8 (CTAF) **L**

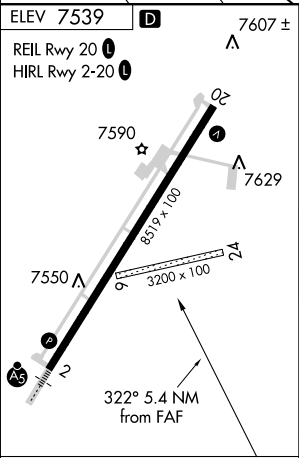
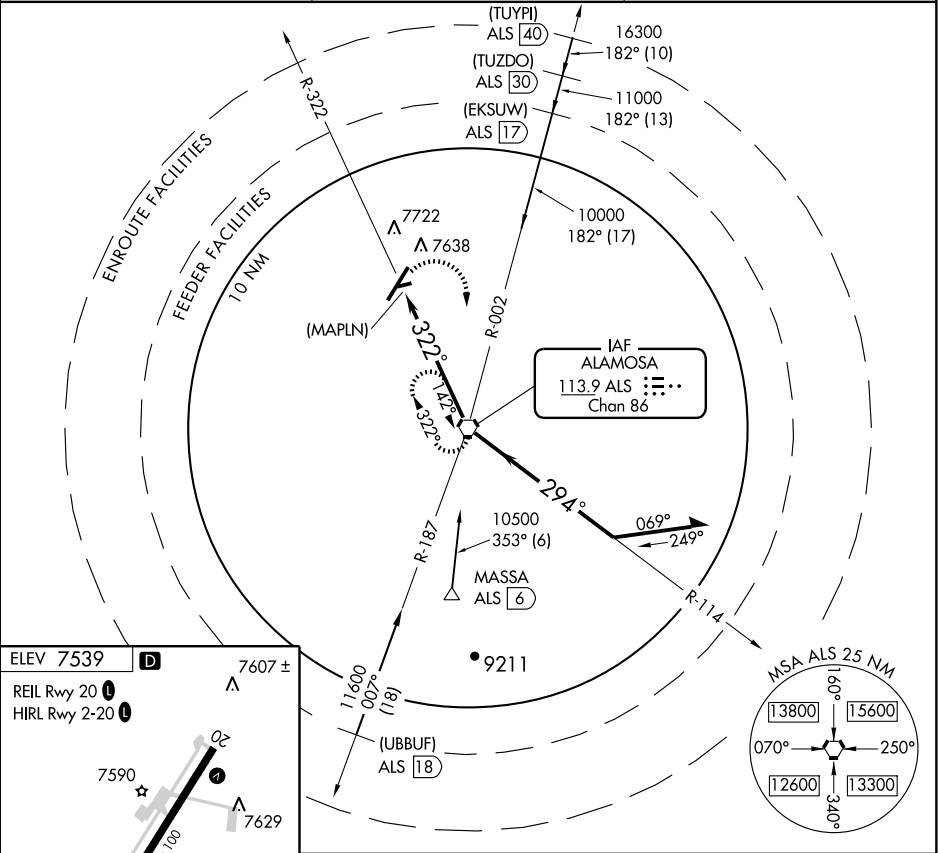


VORTAC ALS 113.9 Chan 86	APP CRS 322°	Rwy Idg TDZE Apt Elev	N/A N/A 7539
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VOR or GPS-A
ALAMOSA/SAN LUIS VALLEY RGNL/BERGMAN FIELD (ALS)

MISSED APPROACH: Climbing right turn to 10000 direct ALS VORTAC and hold.	
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ASOS 135.175	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF)
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FAF to MAP 5.4 NM						CATEGORY		A		B		C		D	
Knots	60	90	120	150	180	CIRCLING	8020-1	485 (500-1)				8020-1½	485 (500-1½)	8100-2	565 (600-2)
Min:Sec	5:24	3:36	2:42	2:10	1:48										

AIRPORT DIAGRAM

AL-5889 (FAA)

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)
ASPEN, COLORADO

ATIS

120.4

ASPEN TOWER ★

118.85 288.3

GND CON

121.9

CLNC DEL

123.75

D

ELEV
7680

1.49.0°

2.0% UP

"SHADE"
HANGARS

A1

A

A2

TWR
7795

HANGARS

FBO

FIRE STATION/
SRE

7006 X 100

AA

A5

★
TERMINAL

A6

A7

A8

33

FIELD
ELEV
7820

329.0°

A

39° 14.0'N

39° 13.5'N

39° 13.0'N

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

SW-1, 14 JAN 2010 to 11 FEB 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.RWY 15-33
S80, D100, DT160

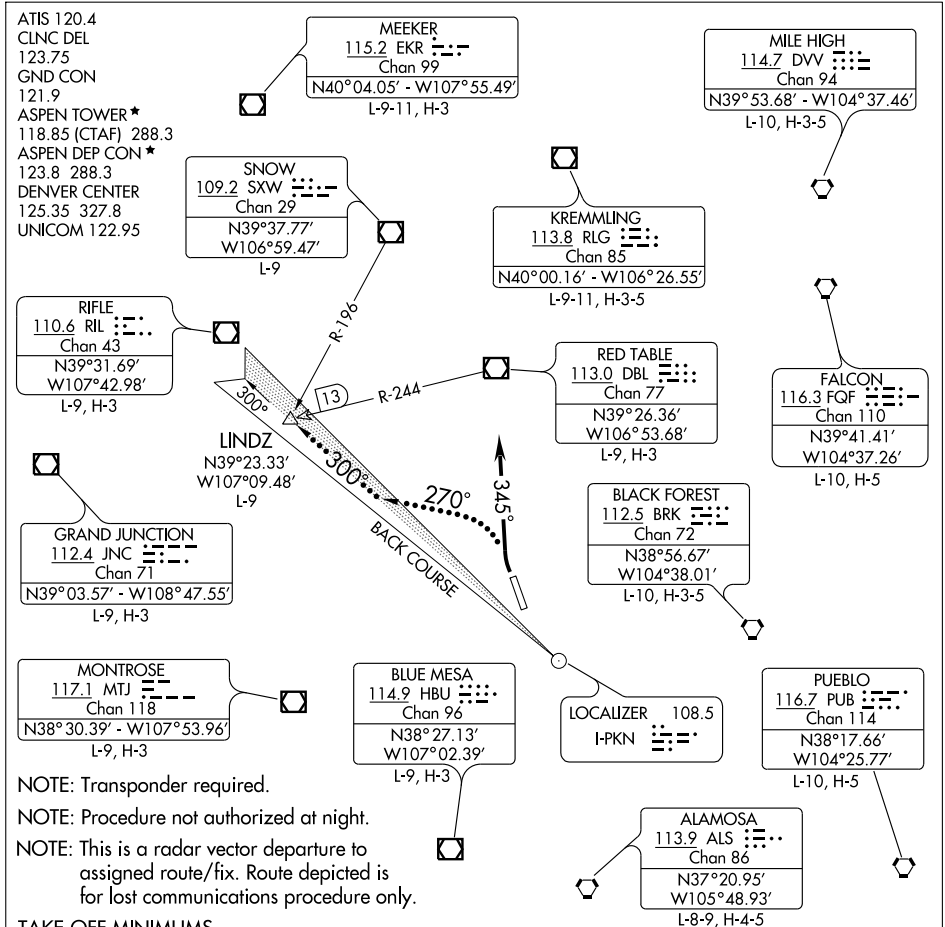
106° 52.5'W

106° 52.0'W

ASPEN THREE DEPARTURE

SL-5889 (FAA)

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)
ASPEN, COLORADO



NOTE: Transponder required.

NOTE: Procedure not authorized at night.

NOTE: This is a radar vector departure to assigned route/fix. Route depicted is for lost communications procedure only.

TAKE-OFF MINIMUMS

RWY 33: 400-1 with minimum obstacle climb of 650' per NM to 13000,
ATC climb of 840' per NM to 16000.

RWY 15: NA - terrain.

NOTE: Chart not to scale.

TAKE-OFF OBSTACLE NOTES

RWY 33: Multiple trees beginning 35' from DER, 386' right of centerline, up to 100' AGL/7722' MSL.
Terrain, trees and bushes beginning 4' from DER, 400' left of centerline, 100' AGL/7821' MSL.
Multiple trees and bushes beginning 3484' from DER, 752' left of centerline, up to 100' AGL/8179' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 33: Climbing right turn heading 345°, maintain 16000 or assigned altitude for radar vectors to assigned route/fix. Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure, turn left heading 270° to intercept and proceed via the I-PKN NW course (outbound) to LINDZ INT/DBL R-244/13 DME, thence via assigned fix/route.

LINDZ FIVE DEPARTURE

SL-5889 (FAA)

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)
ASPEN, COLORADO

TAKE-OFF MINIMUMS
RWY 33: 400-1 with minimum climb of 460' per NM to 14000.
RWY 15: NA - terrain.

ATIS 120.4
CINC DEL 123.75
GND CON
121.9
ASPEN TOWER ★
118.85 (CTAF) 288.3
ASPEN DEP CON ★
123.8 288.3
DENVER CENTER
125.35 327.8
UNICOM 122.95

MEEKER
115.2 EKR
Chan 99
N40°04.05' - W107°55.49'
L-9-11, H-3

KREMLING
113.8 RG
Chan 85
N40°00.16' - W106°26.55'
L-9-11, H-3-5

JESIE
N40°01.41'
W106°52.53'
14500
080°
(20)
R-260

SNOW
109.2 SXW
Chan 29
N39°37.77'
W106°59.47'

RED TABLE
113.0 DBL
Chan 77
N39°26.36'
W106°53.68'
L-9, H-3

RIFLE
110.6 RIL
Chan 43
N39°31.69'
W107°42.98'
L-9, H-3

GRAND JUNCTION
112.4 JNC
Chan 71
N39°03.57' W108°47.55'
L-9, H-3

SLOIM
N39°17.81'
W107°37.67'

PACES
N39°09.95'
W108°16.73'

LOCALIZER 108.5
I-PKN

NOTE: I-PKN Back Course outbound is normal sensing.

TAKE-OFF OBSTACLE NOTES

RWY 33: Multiple trees beginning 35' from DER, 386' right of centerline, up to 100' AGL/7722' MSL.
Multiple trees, bushes and terrain beginning 4' from DER, 400' left of centerline, 100' AGL/7821' MSL.
Multiple trees and bushes beginning 3484' from DER, 752' left of centerline, up to 100' AGL/8179' MSL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-1, 14 JAN 2010 to 11 FEB 2010

LINDZ FIVE DEPARTURE

SL-5889 (FAA)

ASPEN, COLORADO



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 33: Climb heading 340° to 9100, then a climbing left turn to 16000 heading 270° to intercept I-PKN NW course outbound to LINDZ INT/DBL 13 DME. Then via assigned transition. Maintain 16000, expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure, turn left heading 270° to intercept and proceed via the I-PKN NW course (outbound) to LINDZ INT/DBL 13 DME, then via assigned route/transition.

GRAND JUNCTION TRANSITION (LINDZ5.JNC): From over LINDZ INT via DBL R-244 and JNC R-060 to JNC VOR/DME.

KREMMLING TRANSITION (LINDZ5.RLG): From over LINDZ INT via SXW R-196 to SXW VOR/DME; then via SXW R-001 and RLG R-260 to RLG VOR/DME.

MEEKER TRANSITION (LINDZ5.EKR): From over LINDZ INT via DBL R-244 and RIL R-151 to RIL VOR/DME; then via RIL R-331 and EKR R-148 to EKR VOR/DME.

RED TABLE TRANSITION (LINDZ5.DBL): From over LINDZ INT via DBL R-244 to DBL VOR/DME.

RIFLE TRANSITION (LINDZ5.RIL): From over LINDZ INT via DBL R-244 and RIL R-151 to RIL VOR/DME.

LOC/DME I-ASE 111.15 Chan 48 (Y)	APP CRS 148°	Rwy Idg TDZE Apt Elev 7820	N/A N/A 7820
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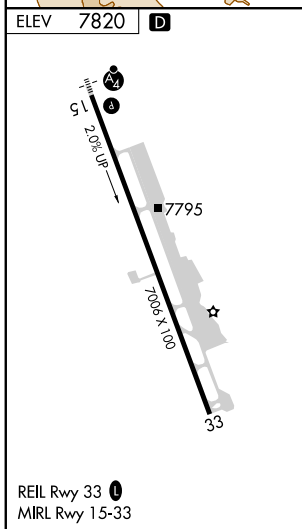
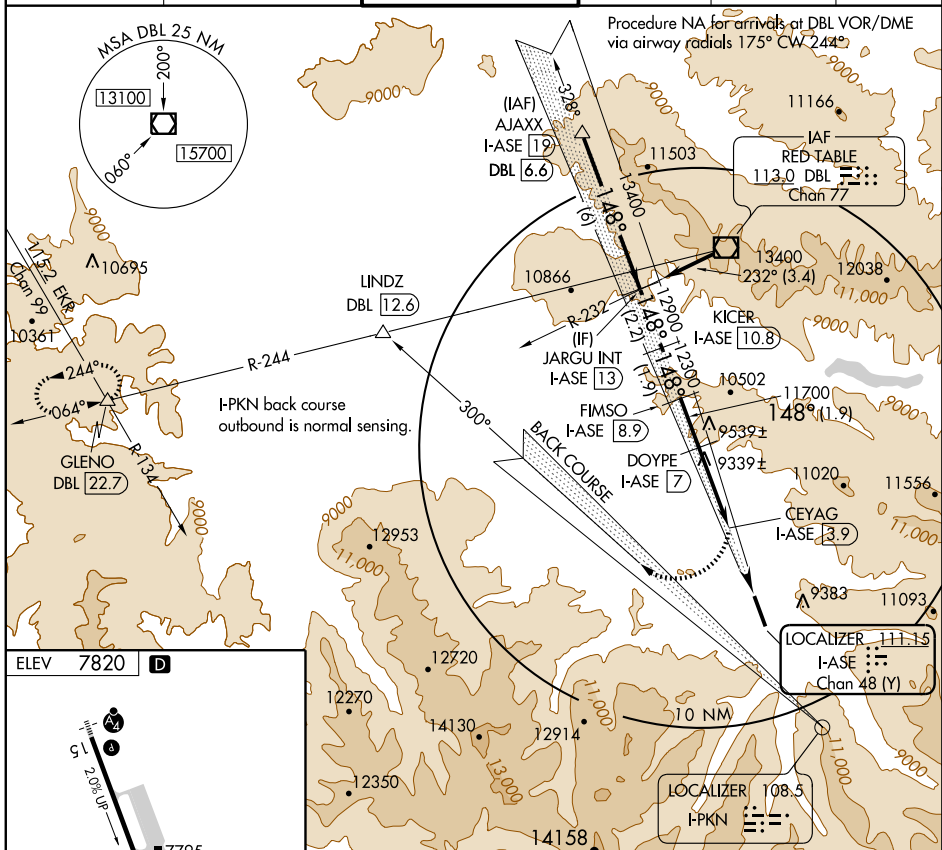
LOC/DME-E

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)

Procedure not authorized at night.

MISSED APPROACH: Climbing right turn to 14000 via heading 300° and I-PKN northwest course (300°) to LINDZ INT/DBL 12.6 DME and DBL VOR/DME R-244 to GLENO INT/DBL 22.7 DME and hold.

ATIS 120.4	ASPEN APP CON ★ 123.8 288.3	ASPEN TOWER ★ 118.85 (CTAF) 288.3	GND CON 121.9	CLNC DEL 123.75	UNICOM 122.95
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JARGU INT I-ASE [13]	KICER I-ASE [10.8]	FIMSO I-ASE [8.9]	DOYPE I-ASE [7]	14000 I-PKN NW CRS 108.5	LINDZ △ 113.0	GLENO △
13400	12900	12300	11700	CEYAG I-ASE [3.9]	VGSJ and descent angles not coincident	
Procedure Turn NA	2.2 NM	1.9 NM	1.9 NM	3.1 NM	2.6 NM	
CATEGORY	A	B	C	D		
CIRCLING	9840-3 2020 (2100-3)	10020-3 2200 (2200-3)	10140-3 2320 (2400-3)	NA		

PITKN ONE DEPARTURE (RNAV)

ATIS 120.4
 CLNC DEL 123.75
 GND CON 121.9
 ASPEN TOWER ★
 118.85 (CTAF) 288.3
 ASPEN DEP CON ★
 123.8 288.3
 DENVER CENTER
 125.35 327.8
 UNICOM 122.95

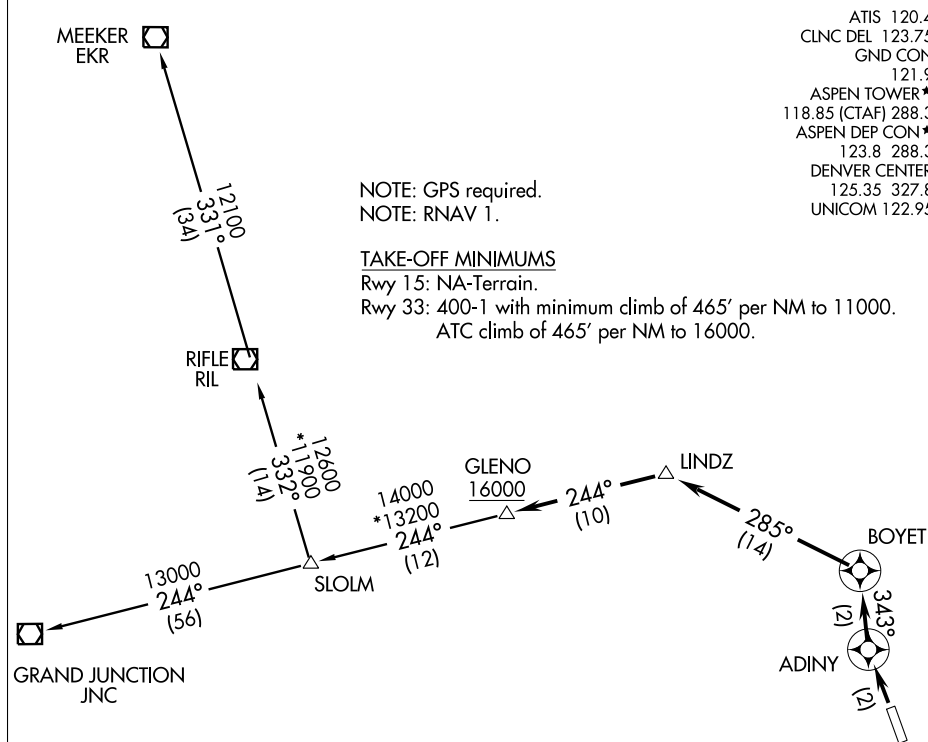
NOTE: GPS required.
 NOTE: RNAV 1.

TAKE-OFF MINIMUMS

Rwy 15: NA-Terrain.

Rwy 33: 400-1 with minimum climb of 465' per NM to 11000.

ATC climb of 465' per NM to 16000.

TAKE-OFF OBSTACLE NOTES

Rwy 33: Multiple trees beginning 35' from DER, 386' right of centerline, up to 100' AGL/7722' MSL.
 Multiple trees, bushes, and terrain beginning 4' from DER, 400' left of centerline, 100' AGL/7821' MSL.
 Multiple trees and bushes beginning 3484' from DER, 752' left of centerline, up to 100' AGL/8179' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 33: Climb to 16000 direct ADINY, and via 343° track to BOYET, and via 285° track to LINDZ, and via 244° track to GLENO, thence. . . .

. . . .via transition or assigned route, expect clearance to filed altitude 10 minutes after departure.

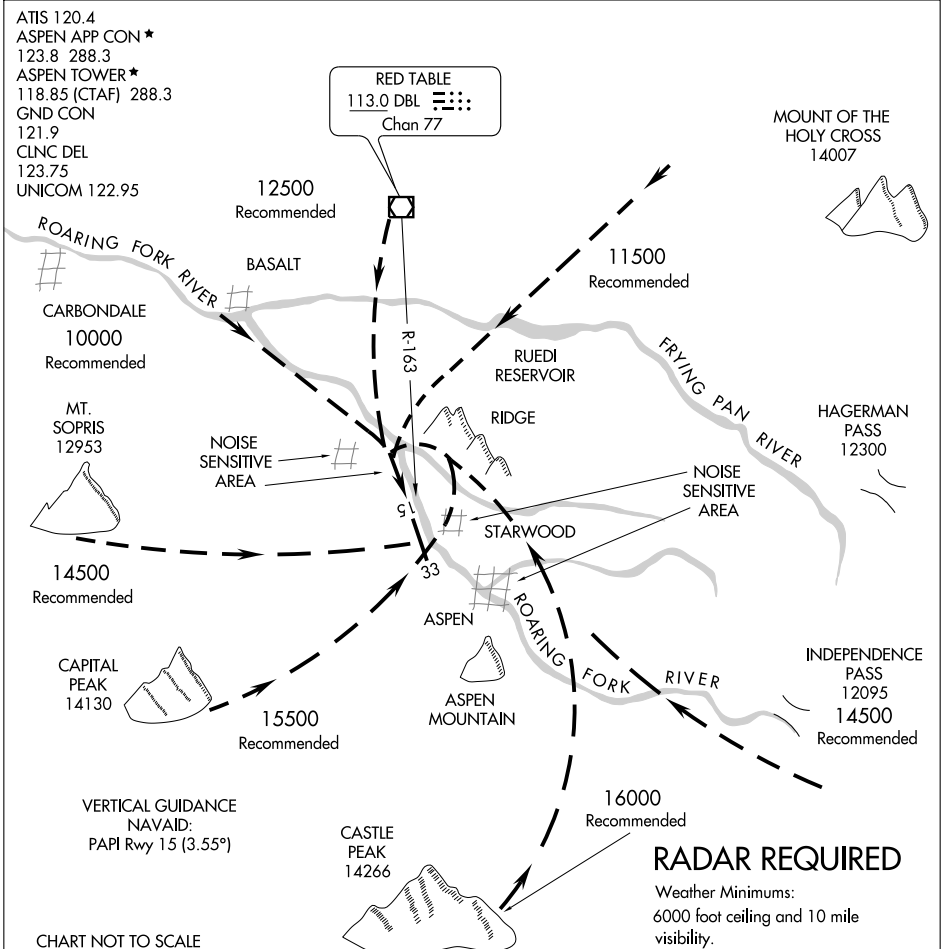
GRAND JUNCTION TRANSITION (PITKN1..JNC)

MEEKER TRANSITION (PITKN1..EKR)

RIFLE TRANSITION (PITKN1..RIL)

ROARING FORK VISUAL RWY 15

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)
ASPEN, COLORADO



ROARING FORK VISUAL RWY 15

Procedure not authorized at night.

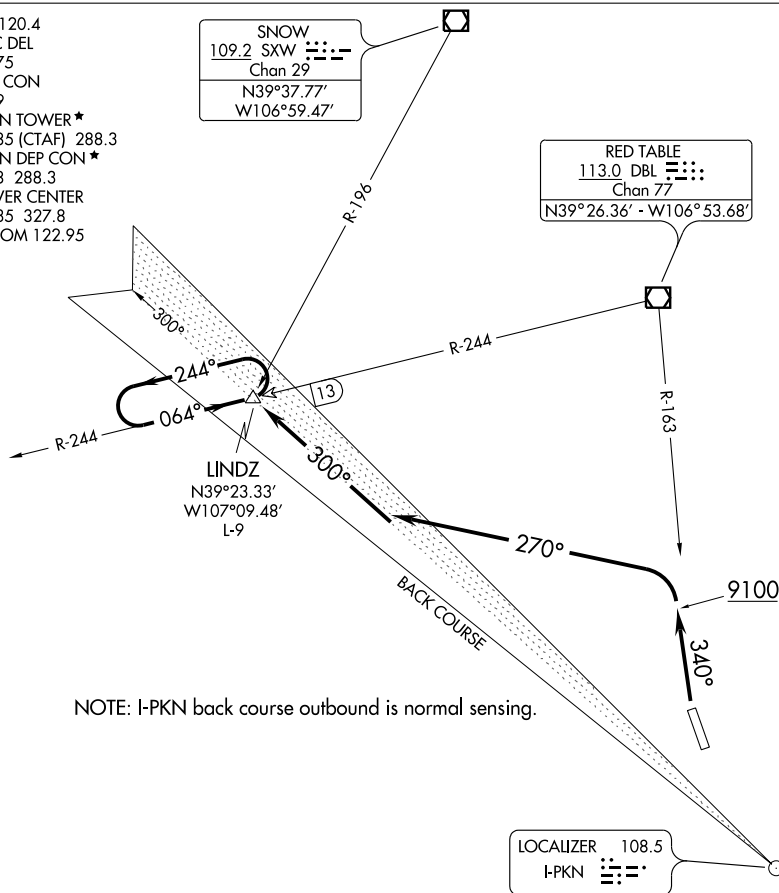
When visual approaches to Runway 15 are in progress, clearances will be given utilizing in part the following phraseology:

"(IDENT) cleared for a ROARING FORK VISUAL Approach to Runway 15."

ATIS 120.4
 CLNC DEL
 123.75
 GND CON
 121.9
 ASPEN TOWER ★
 118.85 (CTAF) 288.3
 ASPEN DEP CON ★
 123.8 288.3
 DENVER CENTER
 125.35 327.8
 UNICOM 122.95

SNOW
 109.2 SXW
 Chan 29
 N39°37.77'
 W106°59.47'

RED TABLE
 113.0 DBL
 Chan 77
 N39°26.36' - W106°53.68'



NOTE: I-PKN back course outbound is normal sensing.

TAKE-OFF MINIMUMS

RWY 33: 400-1 with minimum climb of 460' per NM to 14000 or 4300-3 for climb in visual conditions.
 RWY 15: NA - terrain.

TAKE-OFF OBSTACLE NOTES

RWY 33: Multiple trees beginning 35' from DER, 386' right of centerline, up to 100' AGL/7722' MSL.
 Multiple trees, bushes and terrain beginning 4' from DER, 400' left of centerline, 100' AGL/7821' MSL.
 Multiple trees and bushes beginning 3484' from DER, 752' left of centerline, up to 100' AGL/8179' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

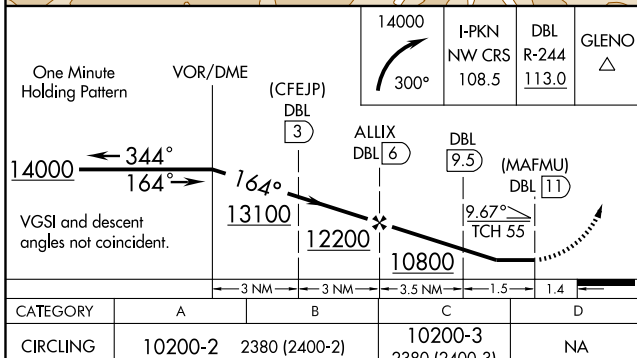
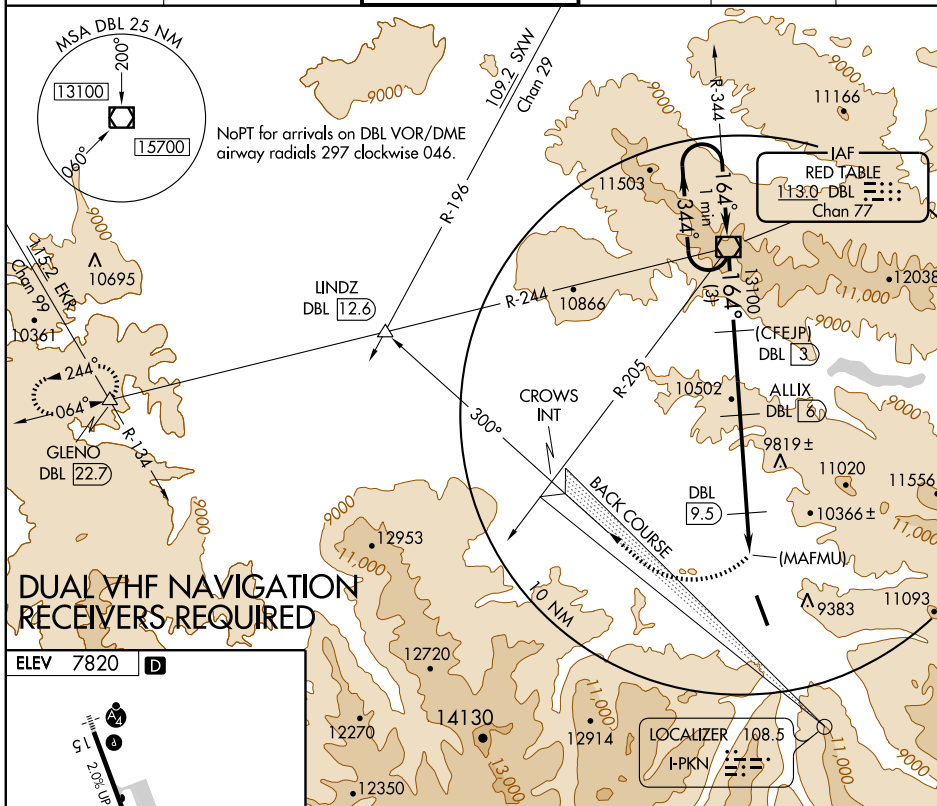
TAKE-OFF RUNWAY 33: Climb heading 340° to 9100, then a climbing left turn to 16000 heading 270°, to intercept I-PKN NW course outbound to LINDZ INT/DBL 13 DME. Climb in LINDZ holding pattern to cross LINDZ at or above 16000 before proceeding enroute, or for climb in visual conditions: cross Aspen Airport northbound at or above 11900 then via DBL R-163 to DBL VOR/DME.

AL-5889 (FAA)

VOR/DME or GPS-C
ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)

MISSED APPROACH: Climbing right turn to 14000 via heading 300° to intercept and proceed via I-PKN northwest course (300°) and DBL VOR/DME R-244 to GLENO Int/DBL 22.7 DME and hold.

ATIS 120.4	ASPEN APP CON★ 123.8 288.3	ASPEN TOWER★ 118.85 (CTAF) 0 288.3	GND CON 121.9	CLNC DEL 123.75	UNICOM 122.95
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SW-1 14 JAN 2010 to 11 FEB 2010

ATIS ★ 119.675 259.3
BUCKLEY TOWER ★
121.0 291.675
GND CON
121.6 275.8

AIR
GUARD
HANGAR

300 x 250

BASE OPS

ELEV
5565

F16 RAMP

1200 x 75

ARMY
GUARD
HANGAR

CONTROL
TOWER
5700

11,000 x 150

FIRE STATION
5695

ELEV
5605

39°43'N

39°42'N

39°41'N

104°46'W

104°45'W

SEPTEMBER 2008
ANNUAL RATE OF CHANGE
0.1° W

Rwy 14-32
PCN 40 R/B/W/T



BAK-12

450 x 300

FIELD
ELEV
5662

E5

100 x 150

BAK-12

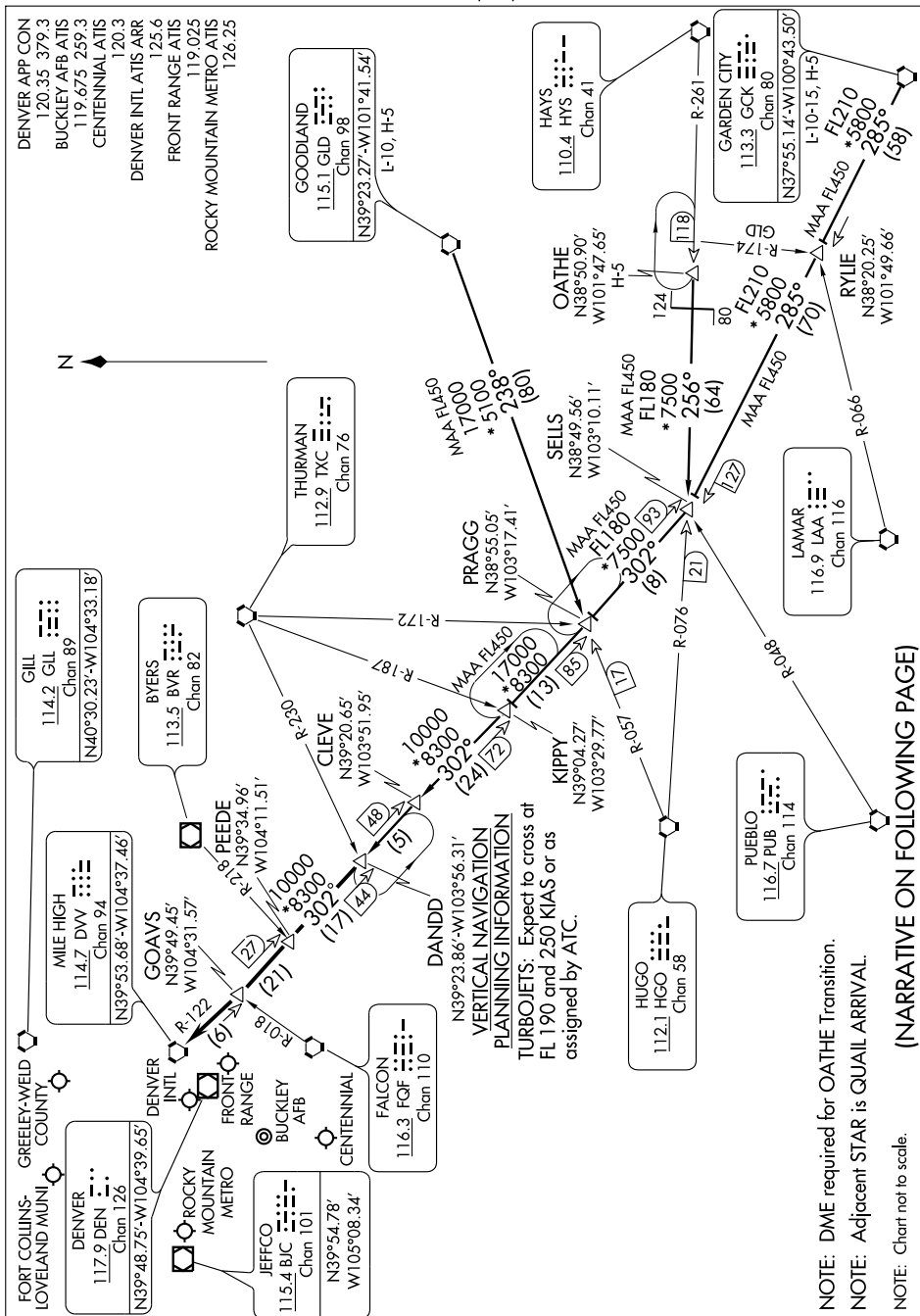
322.0°

32

DANDD FIVE ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

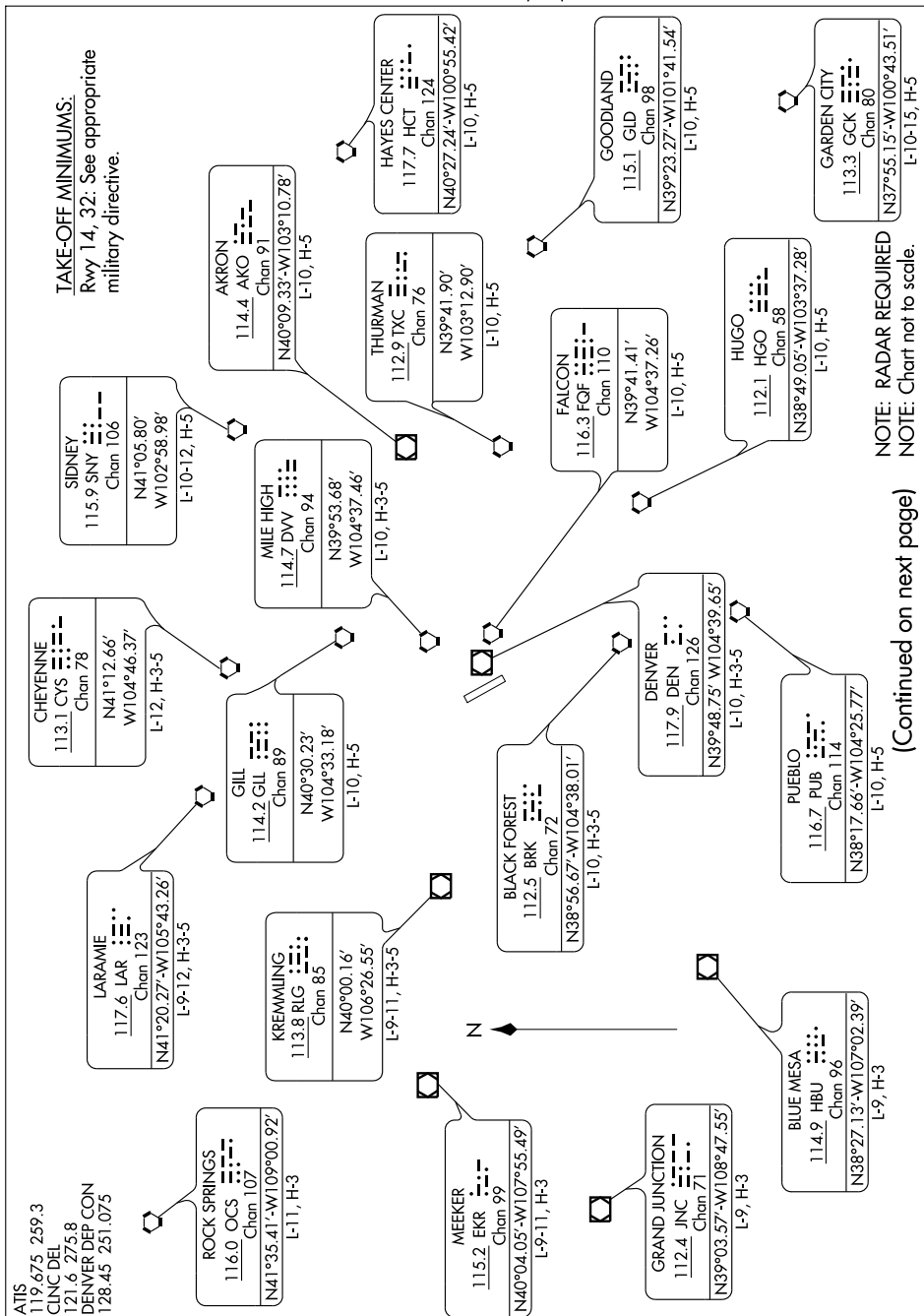
GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER FIVE DEPARTURE

SL-538 (FAA)

AURORA/BUCKLEY AFB (BKF)
AURORA, COLORADO



DEPARTURE ROUTE DESCRIPTION

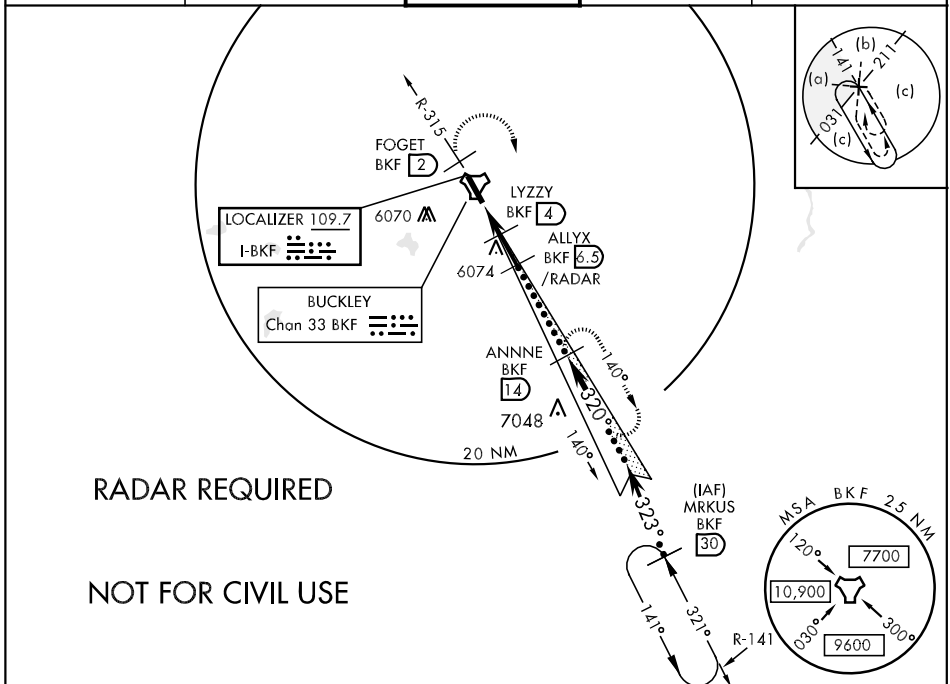
Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

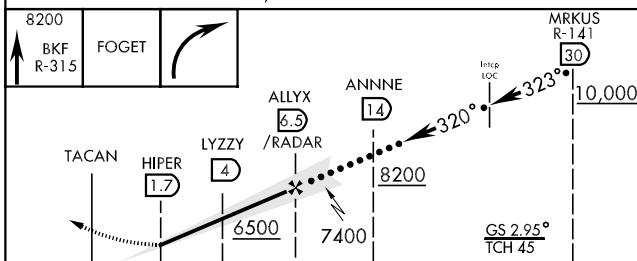
LOC I-BKF 109.7	APCH CRS ILS 320°	Rwy Idg 11,000 TDZE 5662 Arprt Elev 5662	JAL-538 [USAF]	BUCKLEY AFB (BKF)
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▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ miles. ** When ALS inop, increase CAT C vis to 1¾ miles, CAT D vis to 2 miles, CAT E vis to 2½ miles.	ALS-1 A1	MISSED APPROACH: Climb to 8200 via BKF R-315 to FOGET (2 DME), then climbing right turn to ANNNE (BKF R-140/14 DME) and hold.
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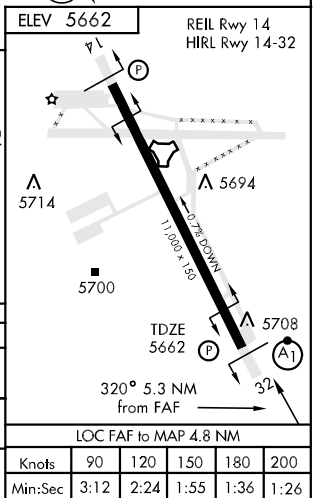
ATIS ★ 119.675 259.3	DENVER APP CON 128.45 251.075	BUCKLEY TOWER ★ 121.0 291.675	GND CON 121.6 275.8	CLNC DEL 121.6 275.8
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	C	D	E
S-ILS 32 *	5862/24	200	(200-½)
S-LOC 32 **	6280/60 618 (700-1¼)	6280-1½ 618 (700-1½)	6280-1¾ 618 (700-1¾)
CIRCLING	6280-1¾ 618 (700-1¾)	6300-2 638 (700-2)	6500-3 838 (900-3)



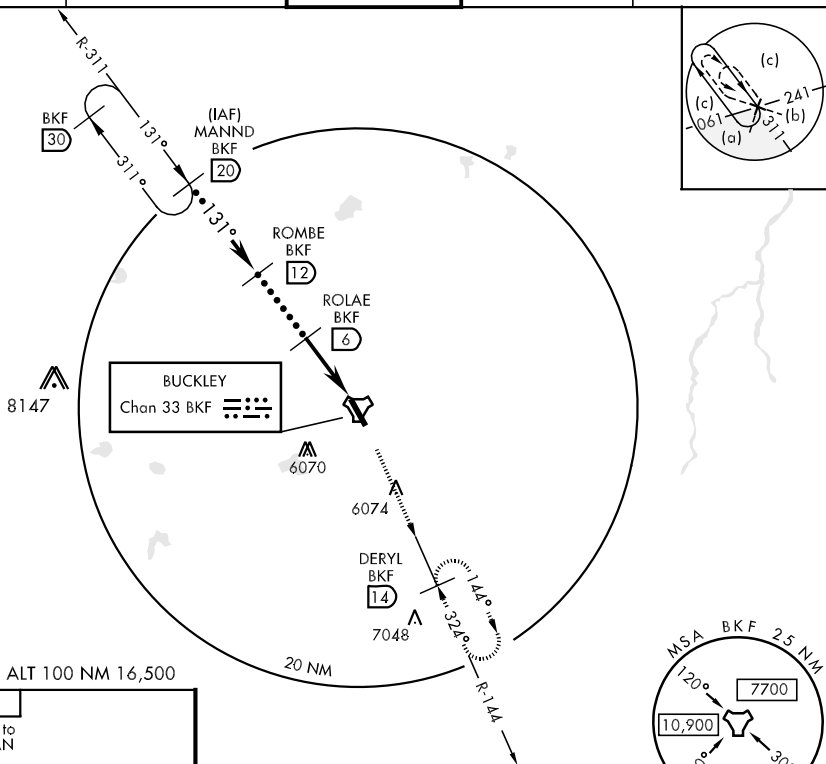
TACAN BKF Chan 33	APCH CRS 131°	Rwy Idg 11,000 TDZE 5589 Arpt Elev 5662
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JAL-538 [USAF]

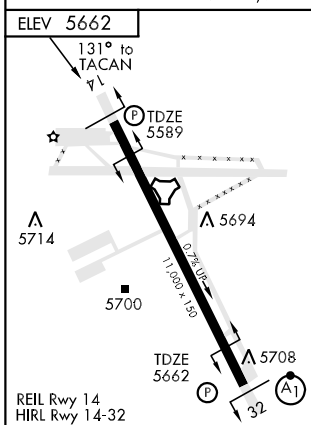
BUCKLEY AFB (BKF)

MISSED APPROACH: Climb to 8300 out R-144 to DERYL (BKF R-144/14 DME) and hold.

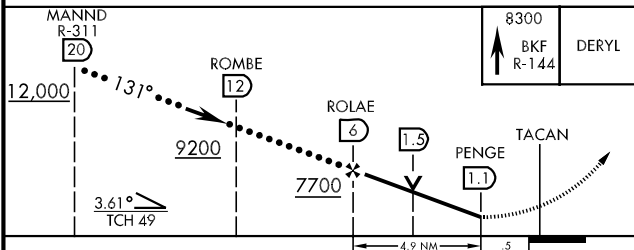
ATIS ★ 119.675 259.3	DENVER APP CON 128.45 251.075	BUCKLEY TOWER ★ 121.0 291.675	GND CON 121.6 275.8	CLNC DEL 121.6 275.8
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EMERG SAFE ALT 100 NM 16,500



FAF to MAP 4.9 NM					
Knots	90	120	150	180	200
Min:Sec	3:12	2:24	1:55	1:36	1:26



CATEGORY	C	D	E
S-14	5980-1 318 (400-1)	5980-1¼ 318 (400-1¼)	5980-1½ 318 (400-1½)
CIRCLING	6220-1½ 558 (600-1½)	6300-2 638 (700-2)	6500-3 838 (900-3)

TACAN BKF Chan 33	APCH CRS 324°	Rwy Idg 11,000 TDZE 5662 Arpt Elev 5662
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JAL-538 [USAF]

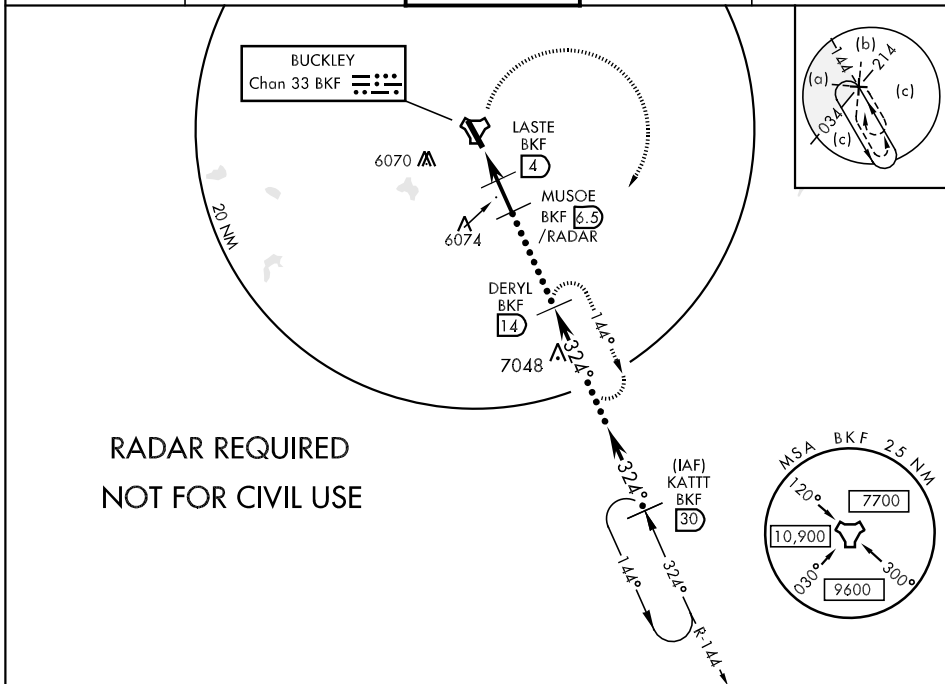
BUCKLEY AFB (KBKF)

▼ * When ALS inop, increase CAT C vis to 1¾ miles,
CAT D vis to 2 miles, CAT E vis to 2¼ miles.



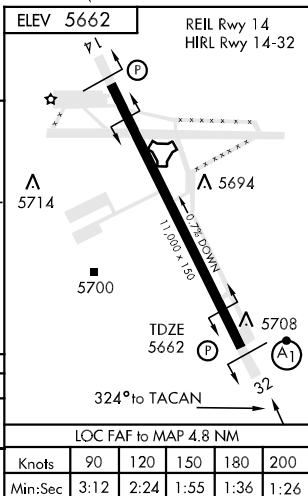
MISSED APPROACH: Climbing right turn to 8300
to DERYL (BKF R-144/14 DME) and hold.

ATIS ★ 119.675 259.3	DENVER APP CON 128.45 251.075	BUCKLEY TOWER ★ 121.0 291.675	GND CON 121.6 275.8	CLNC DEL 121.6 275.8
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EMERG SAFE ALT 100 NM 16,500

8300	BKF R-144 14	MUSOE 6.5 /RADAR	DERYL R-144 14	KATTT R-144 30
VGSI and descent angles not coincident				
TACAN	HIPER 1.7	LASTE 4	7400	10,000
0.5 2.3 NM 2.5 NM				
CATEGORY	C	D	E	
S-32 *	6280/60 618 (700-1¼)	6280-1½ 618 (700-1½)	6280-1¾ 618 (700-1¾)	
CIRCLING	6280-1 ¾ 618 (700-1¾)	6300-2 638 (700-2)	6500-3 838 (900-3)	



LOC I-BKF 109.7	APCH CRS ILS 320°	Rwy Idg 11,000 TDZE 5662 Arpt Elev 5662
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AL-538 [USAF]

BUCKLEY AFB (BKF)

▼ * When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾ miles.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1¾ miles, CAT D vis to 2 miles, and CAT E vis to 2¾ miles.

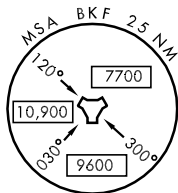
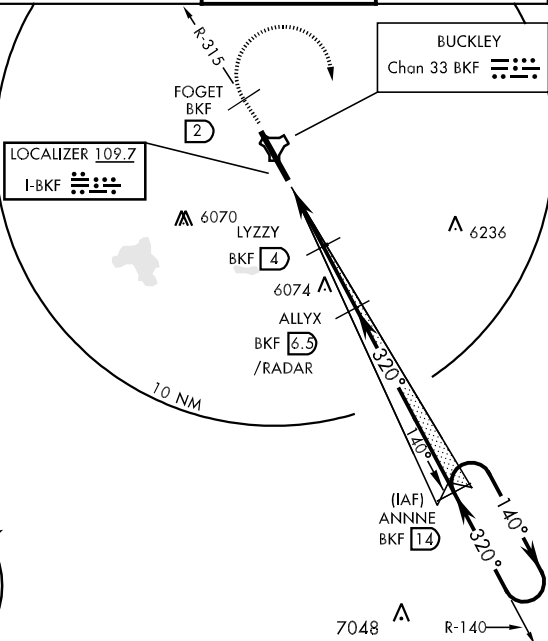
ALSF-1
A1

MISSED APPROACH: Climb to 8200 via BKF R-315 to FOGET (2 DME) then climbing right turn to BKF R-140/14 DME (ANNNE) and hold.

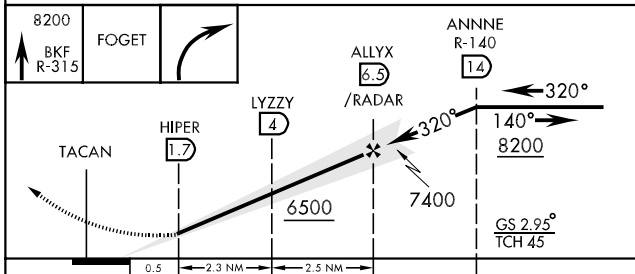
ATIS ★ 119.675 259.3	DENVER APP CON 128.45 251.075	BUCKLEY TOWER ★ 121.0 291.675	GND CON 121.6 275.8	CLNC DEL 121.6 275.8
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NOT FOR CIVIL USE

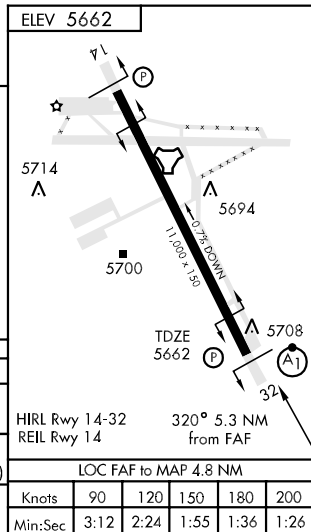
RADAR REQUIRED



EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D	E
S-ILS 32 *	5862/24 200 (200-½)				
S-LOC 32 **	6280/24 618 (700-½)	6280/60 618(700-1¼)	6280-1½ 618(700-1½)	6280-1¾ 618(700-1¾)	
CIRCLING	6280-1 618 (700-1)	6280-1¾ 618(700-1¾)	6300-2 638(700-2)	6500-3 838 (900-3)	





NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

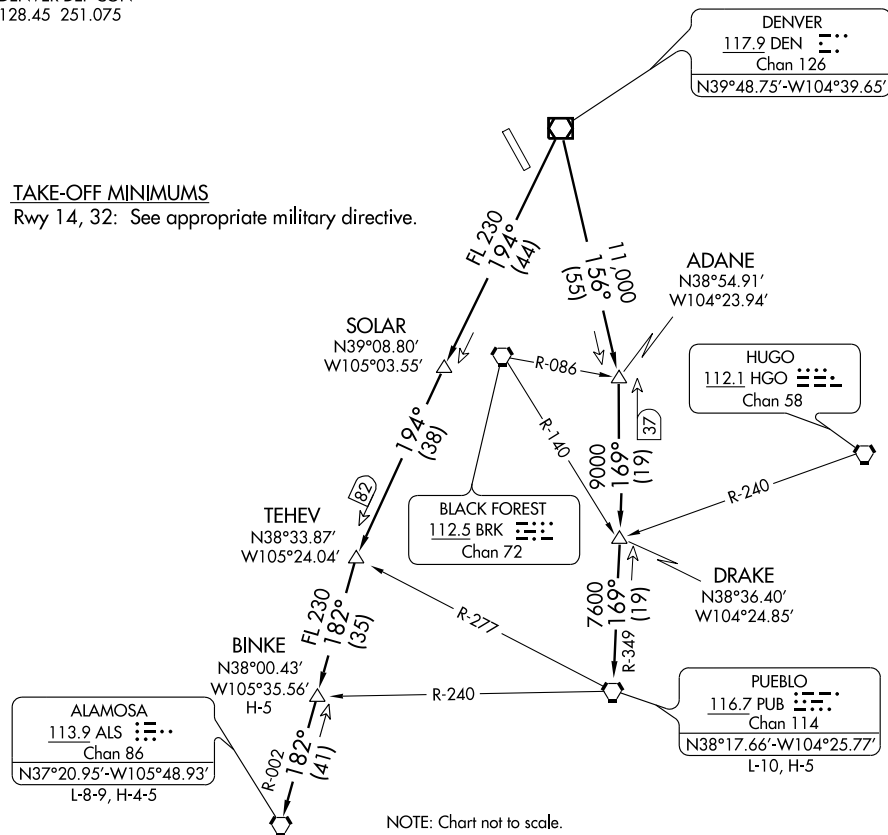
....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

ATIS
119.675 259.3
CLNC DEL
121.6 275.8
DENVER DEP CON
128.45 251.075

DENVER
117.9 DEN $\frac{1}{2}$::
Chan 126
N39°48.75'-W104°39.65'

TAKE-OFF MINIMUMS

Rwy 14, 32: See appropriate military directive.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

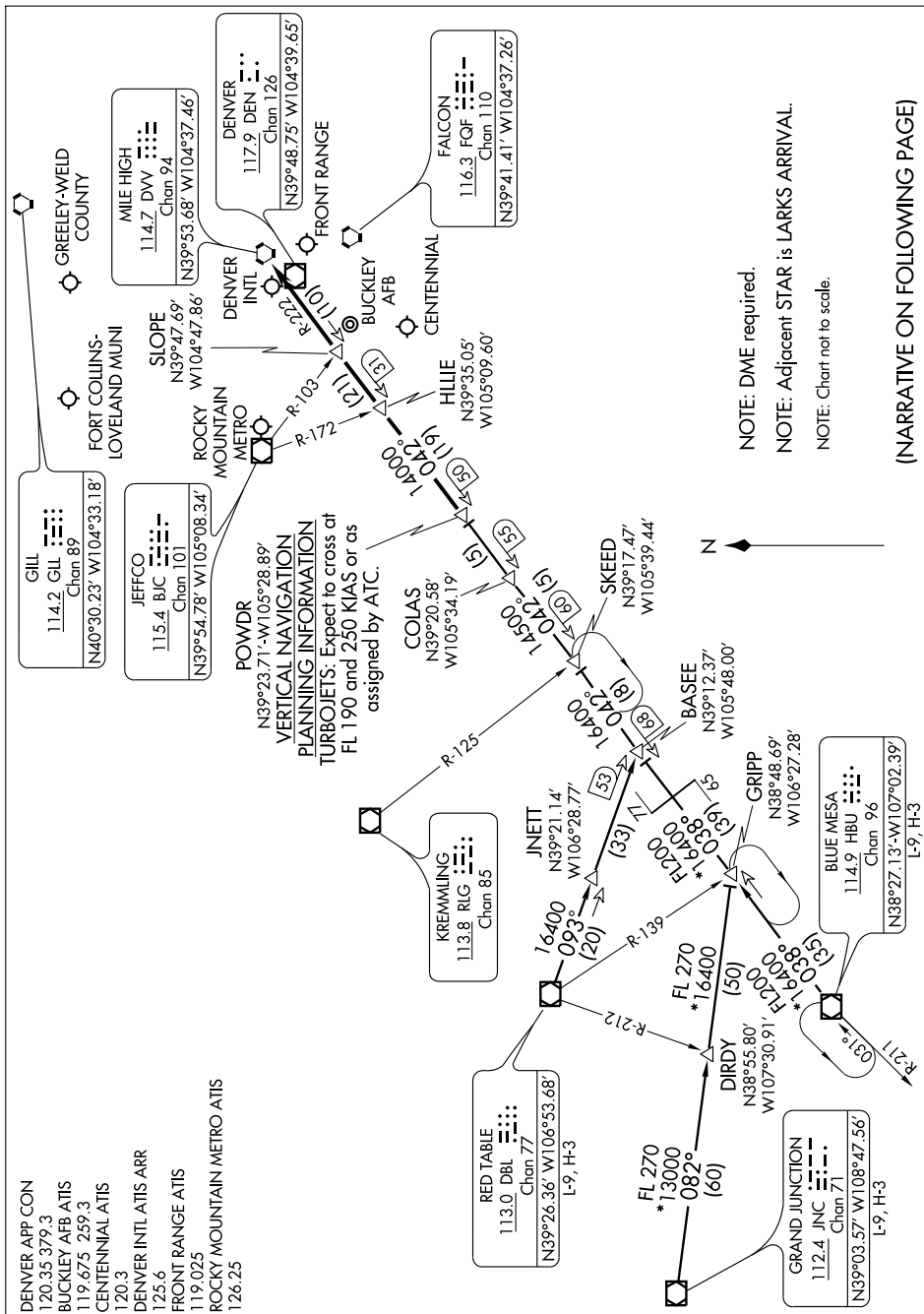
THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.

POWDR SEVEN ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

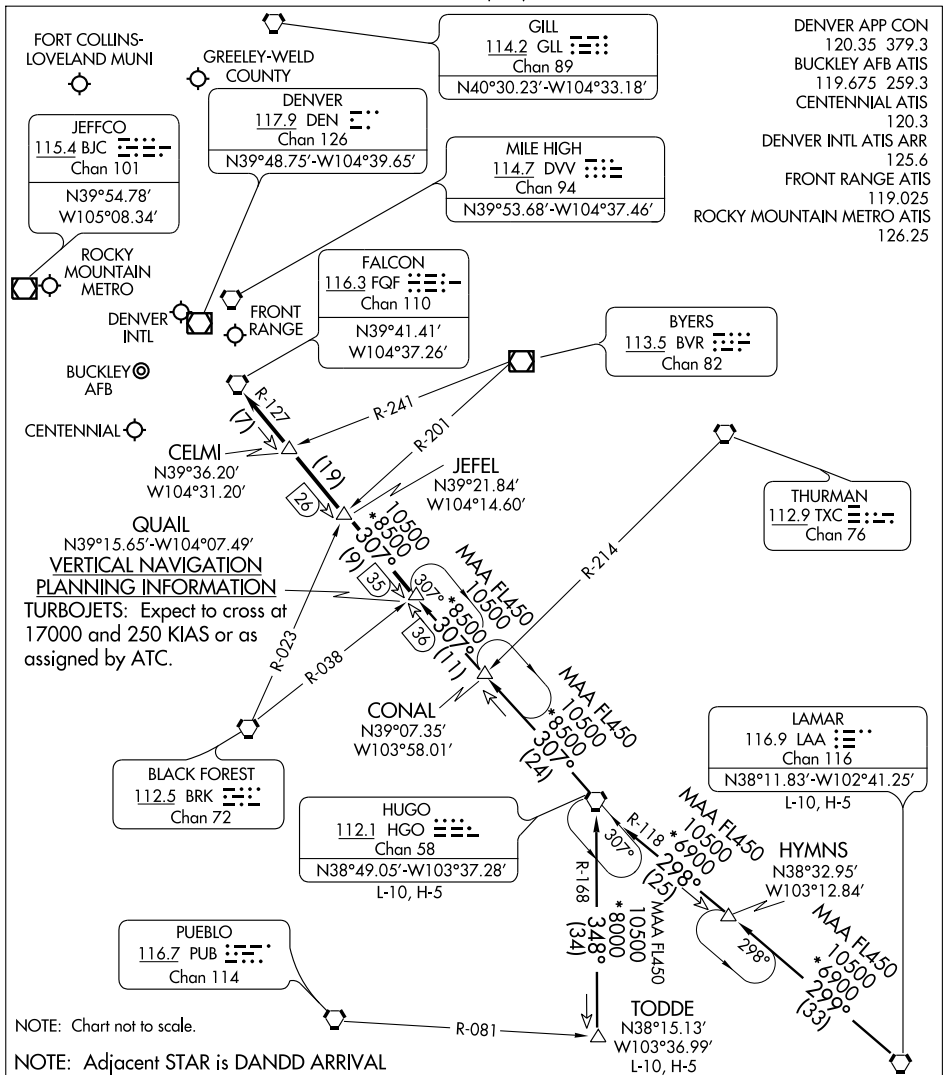
RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.

QUAIL SIX ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to QUAIL INT. Thence....

TODDE TRANSITION (TODDE.QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
 Expect radar vectors to the final approach course at or before FQF VORTAC.

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for ROCK SPRINGS TRANSITION for Changeover Point.

NOTE: Adjacent STAR is TOMSN ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.





DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

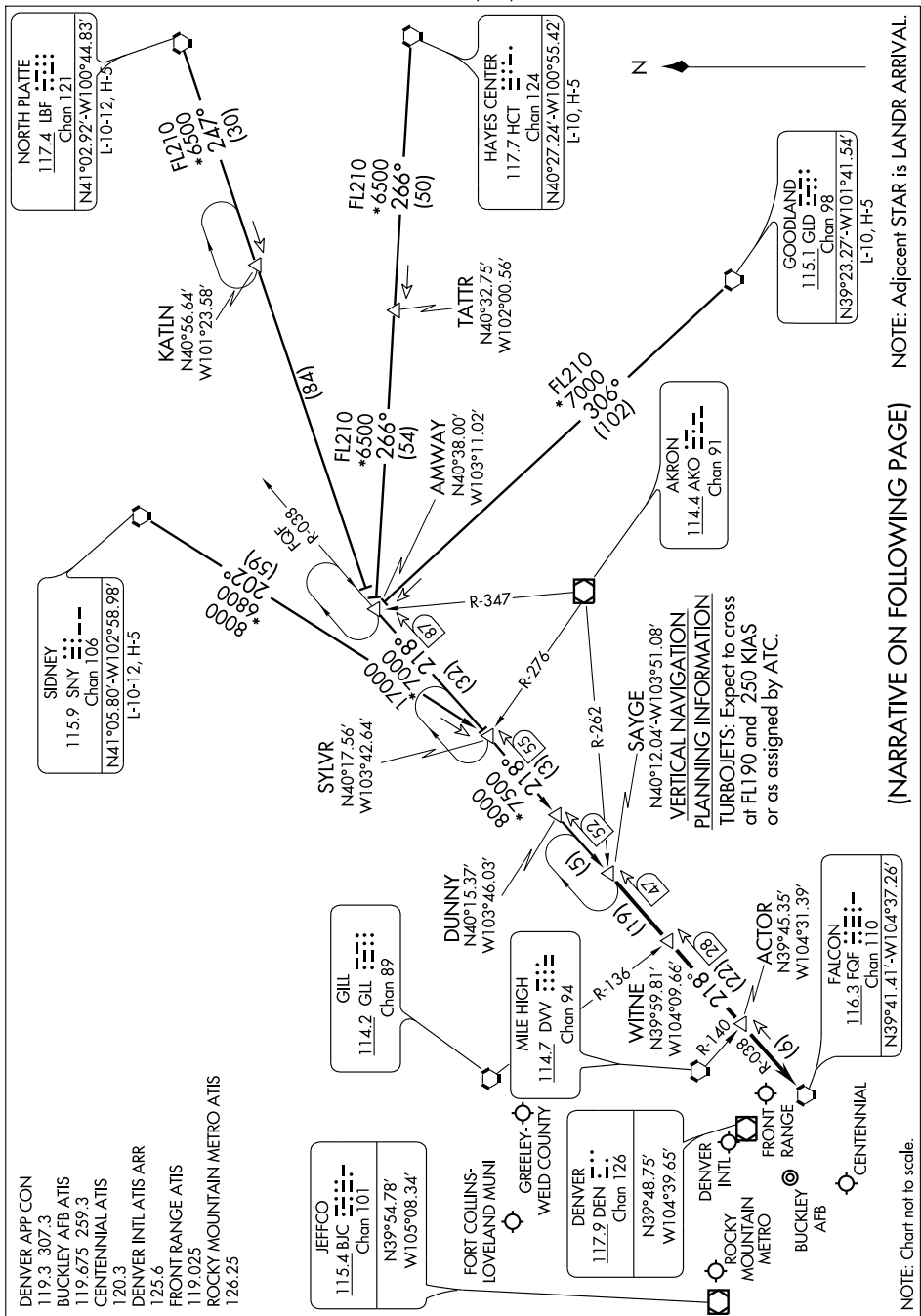
MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.

ST-9077 (FAA)

DENVER, COLORADO



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Adjacent STAR is LANDR ARRIVAL.

SW-1. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

TACAN BKF Chan 33	APCH CRS 324°	Rwy ldg 11,000 TDZE 5662 Arpt Elev 5662
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AL-538 [USAF]

BUCKLEY AFB (KBKF)

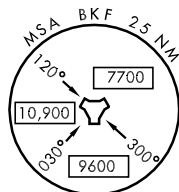
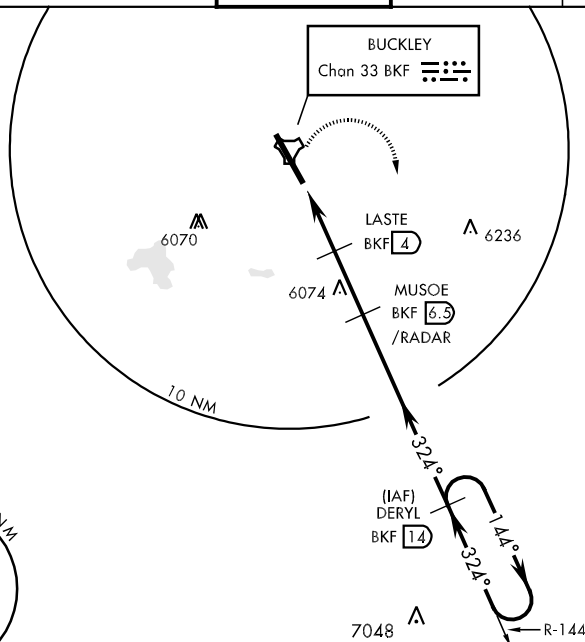
▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1¾ miles, CAT D vis to 2 miles, CAT E vis to 2¼ miles.

ALSF-1

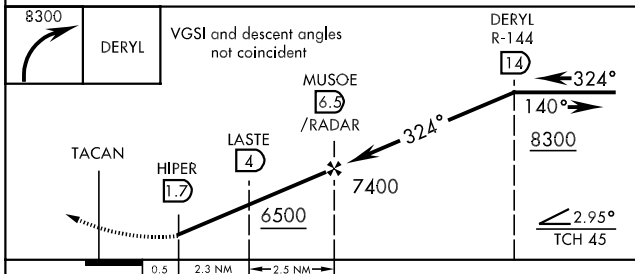


MISSED APPROACH: Climbing right turn to 8300 to DERYL (BKF R-144/14 DME) and hold.

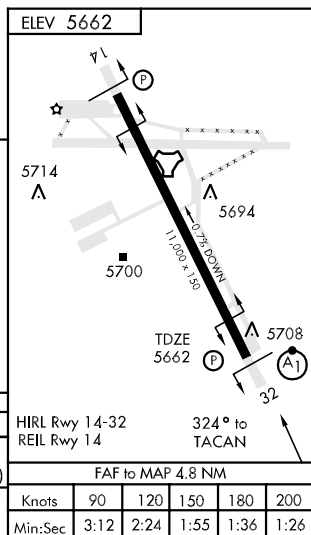
ATIS ★ 119.675 259.3	DENVER APP CON 128.45 251.075	BUCKLEY TOWER ★ 121.0 291.675	GND CON 121.6 275.8	CLNC DEL 121.6 275.8
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NOT FOR
CIVIL USERADAR
REQUIRED

EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D	E
S-32 *	6280/24 618 (700-½)	6280/60 618(700-1¼)	6280-1½ 618(700-1½)	6280-1¾ 618(700-1¾)	6280-1¾ 618(700-1¾)
CIRCLING	6280-1 618 (700-1)	6280-1¾ 618(700-1¾)	6300-2 638(700-2)	6500-3 838 (900-3)	6500-3 838 (900-3)





ARRIVAL DESCRIPTION

HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

AURORA, COLORADO



YELLOWSTONE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLO6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLO6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLO6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLO6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

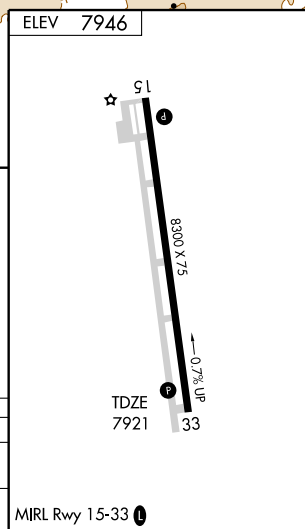
NATTI TRANSITION (YELLO6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

RAPID CITY TRANSITION (YELLO6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

SCOTTSBLUFF TRANSITION (YELLO6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

MISSED APPROACH: Climb to 9850, then climbing right turn to 16000 direct TEZNE WP and hold.

UNICOM
122.8 (CTAF) **L**



PUEBLO ONE DEPARTURE (RNAV) (OBSTACLE)

BUENA VISTA, COLORADO

DENVER CENTER

119.85 363.15

UNICOM 122.8 (CTAF)

TAKE-OFF MINIMUMS

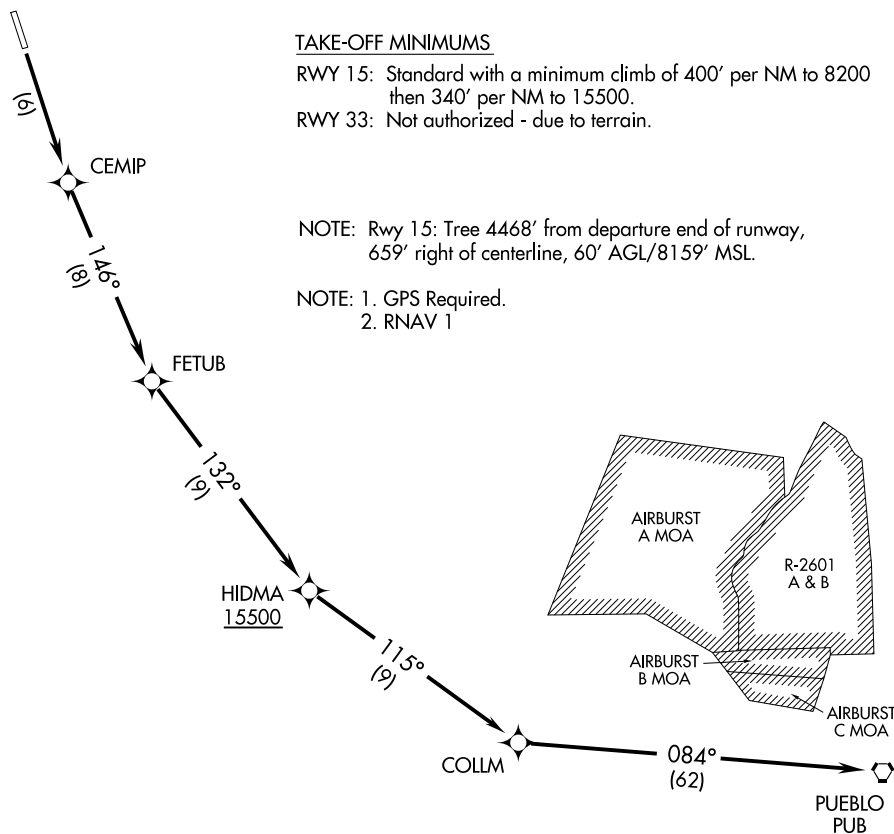
RWY 15: Standard with a minimum climb of 400' per NM to 8200 then 340' per NM to 15500.

RWY 33: Not authorized - due to terrain.

NOTE: Rwy 15: Tree 4468' from departure end of runway, 659' right of centerline, 60' AGL/8159' MSL.

NOTE: 1. GPS Required.

2. RNAV 1



SW-1. 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb direct CEMIP WP, then via 146° track to FETUB WP then via 132° track to cross HIDMA WP at or above 15500', then via depicted route to PUB VORTAC.

TAKE-OFF RUNWAY 33: Not authorized.

LOC/DME I-OBG 111.9 Chan 56	APP CRS 330°	Rwy Idg 5201 TDZE 4203 Apt Elev 4217
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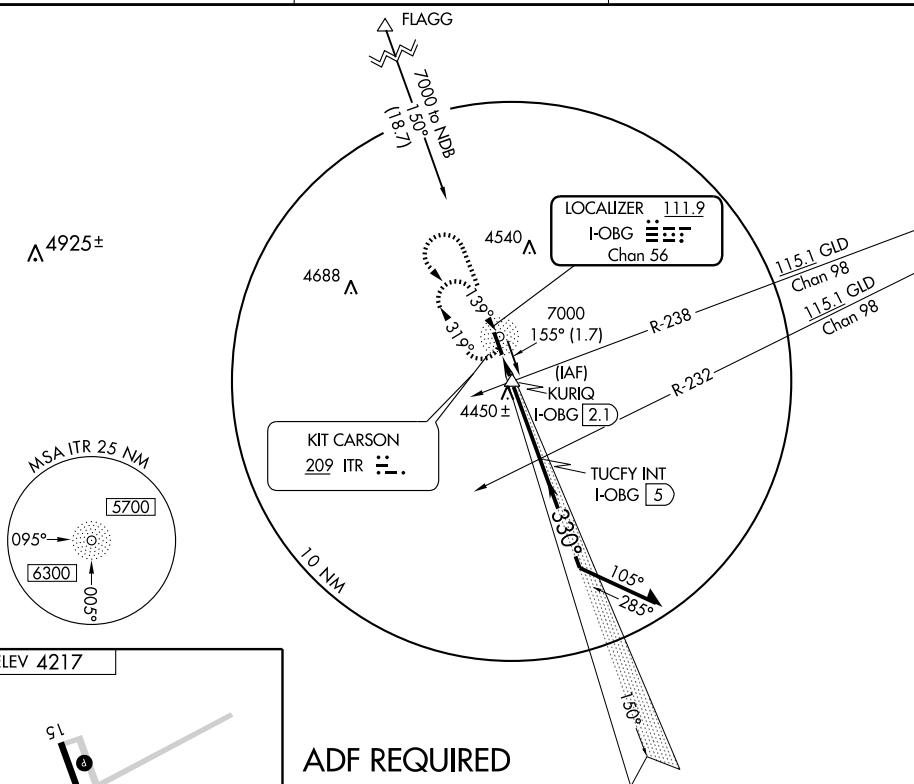
LOC RWY 33
BURLINGTON/ KIT CARSON COUNTY (ITR)

A NA	Use of I-OBG DME required for procedure entry from ITR NDB.
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MISSED APPROACH: Climb to 5000, then climbing left turn to 7000 direct ITR NDB and hold.

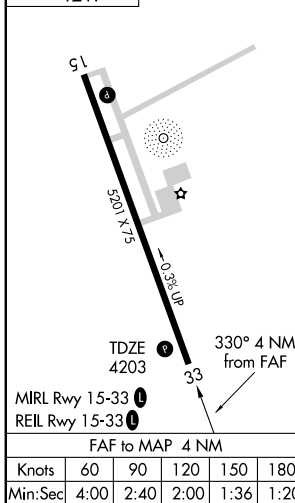
ASOS
135.225DENVER CENTER
132.5 379.15

UNICOM
122.8 (CTAF) **L**

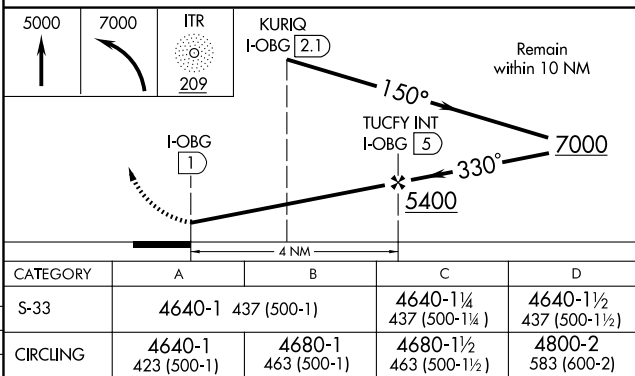


SW-1: 14 JAN 2010 to 11 FEB 2010

ELEV 4217



ADF REQUIRED



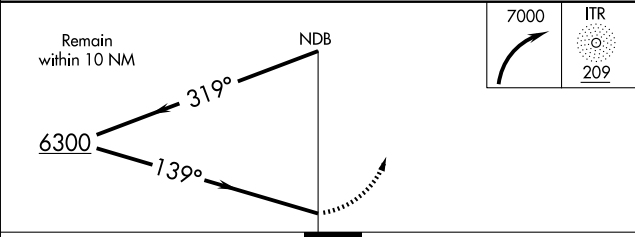
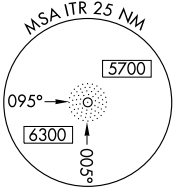
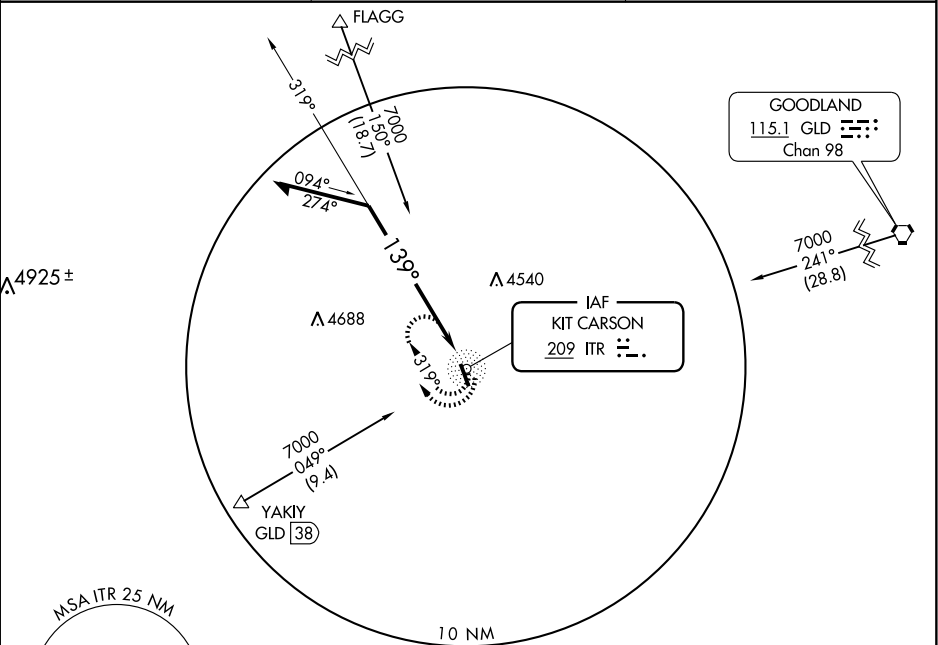
NDB RWY 15

BURLINGTON/ KIT CARSON COUNTY (ITR)

NDB ITR	APP CRS	Rwy Idg	5201
209	139°	TDZE	4217
		Apt Elev	4217

NA	MISSED APPROACH: Climbing right turn to 7000 in ITR NDB holding pattern.
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ASOS 135.225	DENVER CENTER 132.5 379.15	UNICOM 122.8 (CTAF)
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ELEV 4217					
TDZE 4217		139° to NDB			
51		5201 X 75			
33		0.38 UP			
MIRL Rwy 15-33		REIL Rwy 15-33			
Knots	60	90	120	150	180
Min:Sec					

WAAS CH 72999 W15A	APP CRS 150°	Rwy Idg 5201 TDZE 4219 Apt Elev 4219
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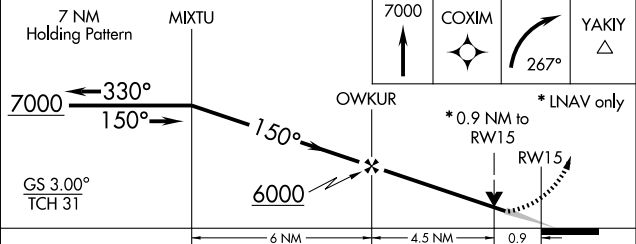
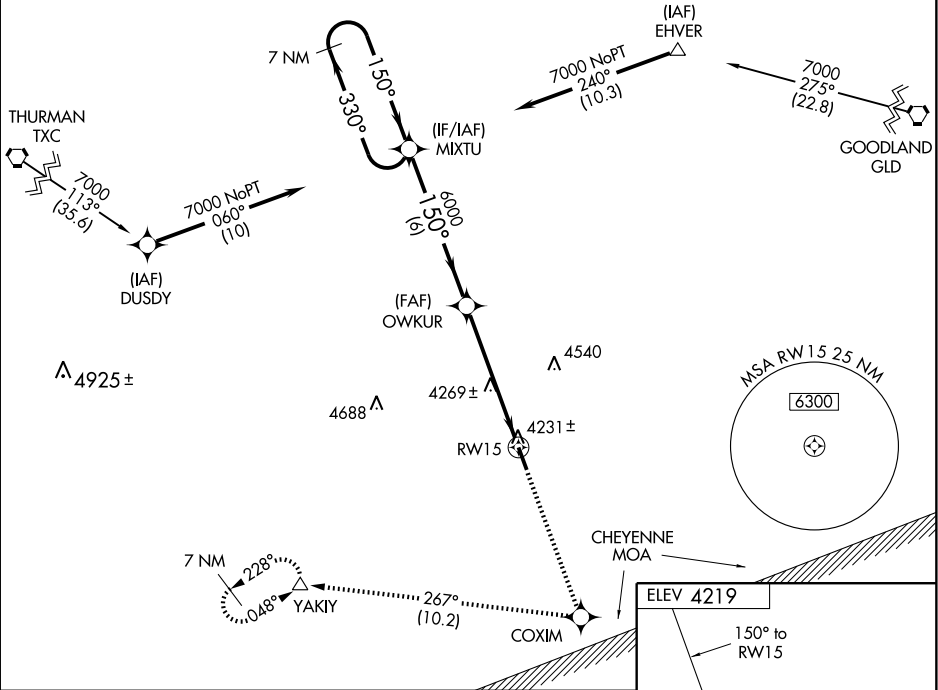
RNAV (GPS) RWY 15

BURLINGTON/ KIT CARSON COUNTY (ITR)

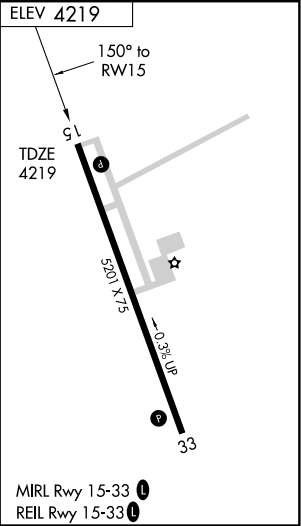
DME/DME RNP-0.3 NA. Baro-VNAV NA below -23°C (-9°F)	MISSED APPROACH: Climb to 7000 direct COXIM and right turn via 267° track to YAKIY, and hold, continue climb-in-hold to 7000.
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ASOS 135.225	DENVER CENTER 132.5 379.15	UNICOM 122.8 (CTAF)
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Procedure NA for arrival at TXC VORTAC via V148 southwest bound;
For arrival at GLD VORTAC via V108 northeast bound and V132 southeast bound.



CATEGORY	A	B	C	D
LPV DA	4469-1 250 (300-1)			
RNAV/DA	4481-1 262 (300-1)			
RNAV MDA	4520-1 301 (400-1)			
CIRCLING	4580-1 361 (400-1)	4680-1 461 (500-1)	4680-1½ 461 (500-1½)	4780-2 561 (600-2)



MIRL Rwy 15-33 **L**
REIL Rwy 15-33 **L**

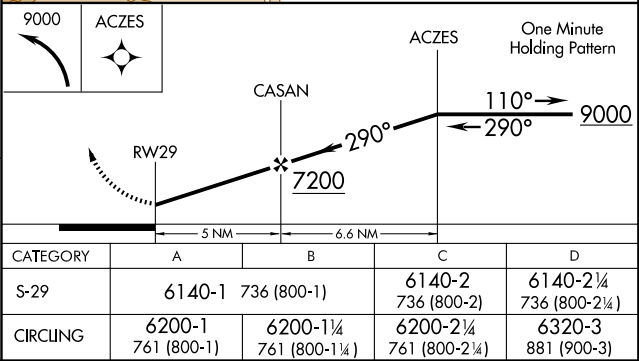
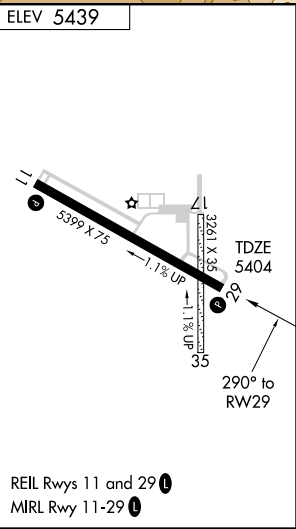
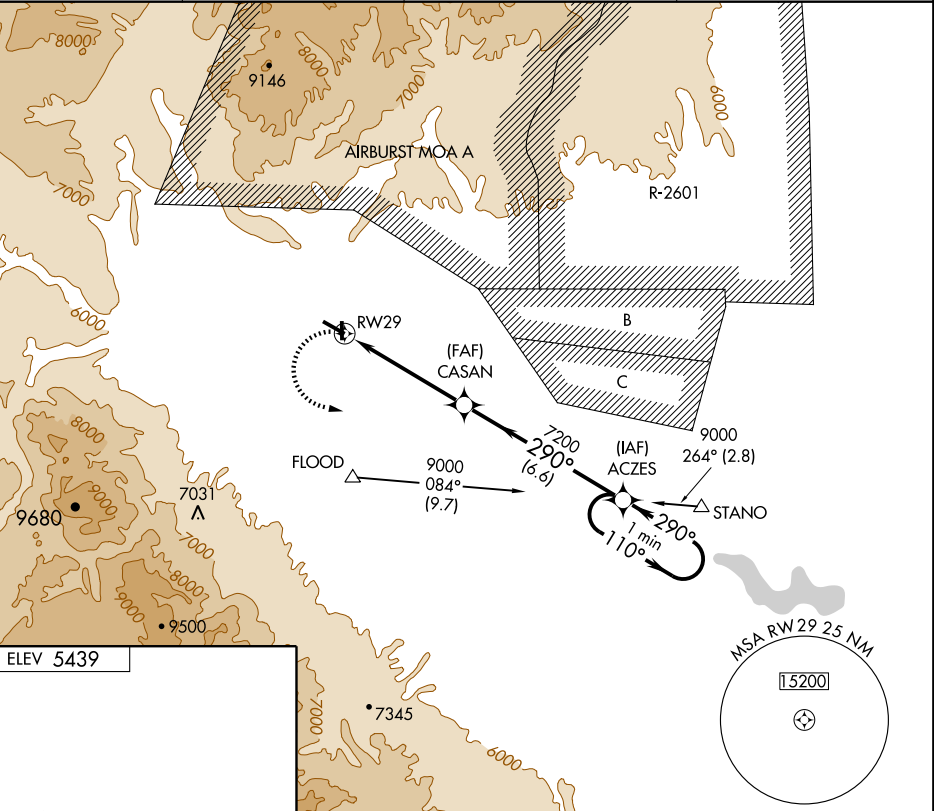
APP CRS	Rwy Idg	5399
290°	TDZE	5404
	Apt Elev	5439

GPS RWY 29

CANON CITY/ FREMONT COUNTY (1V6)

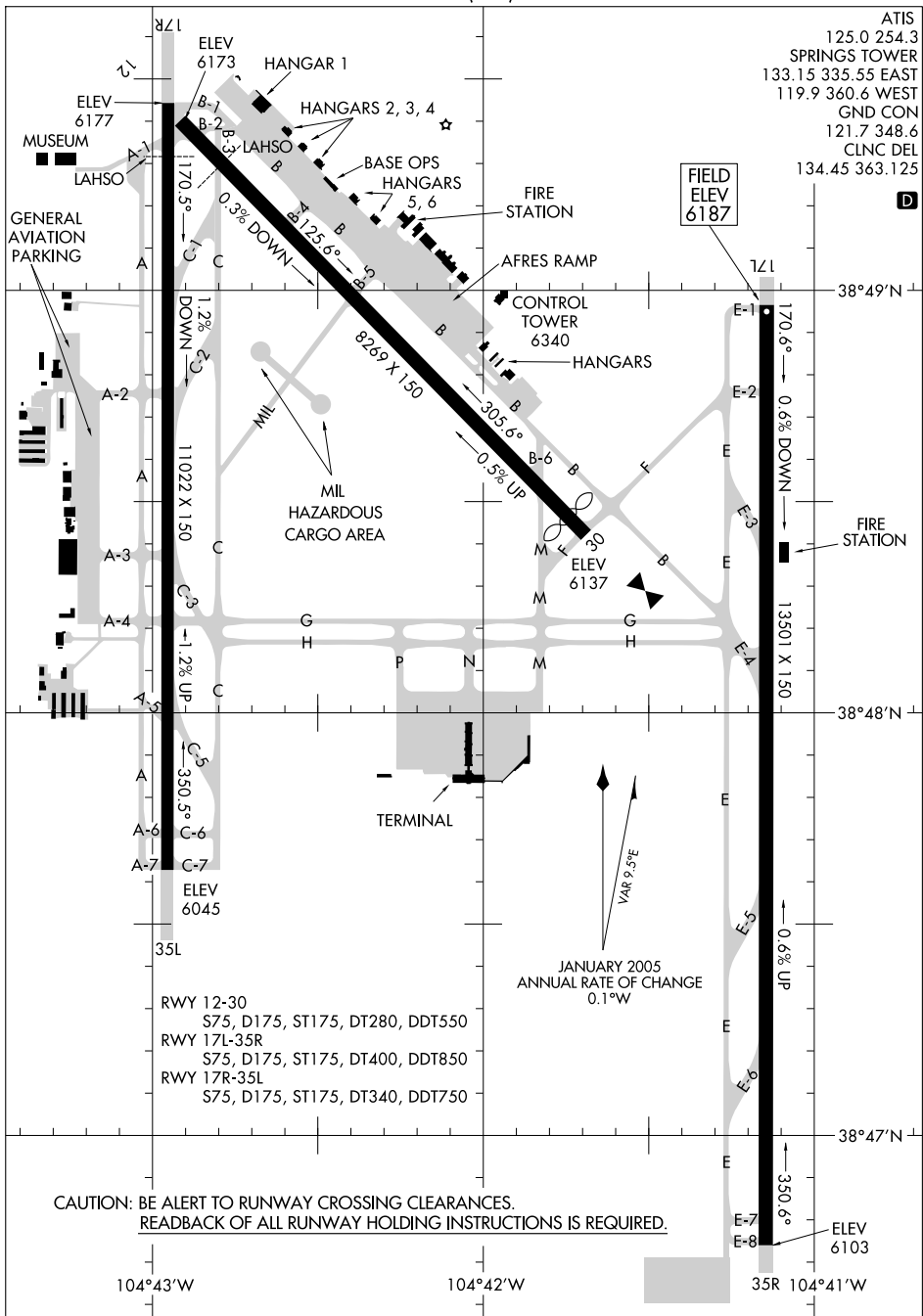
 Use Pueblo Memorial altimeter setting.	MISSED APPROACH: Climbing left turn to 9000 direct ACZES WP and hold.
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AWOS-3 120.025	DENVER APP CON 120.1 290.5	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF) 
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AIRPORT DIAGRAM

COLORADO SPRINGS/CITY OF COLORADO SPRINGS MUNI (COS)
AL-87 (FAA) COLORADO SPRINGS, COLORADO

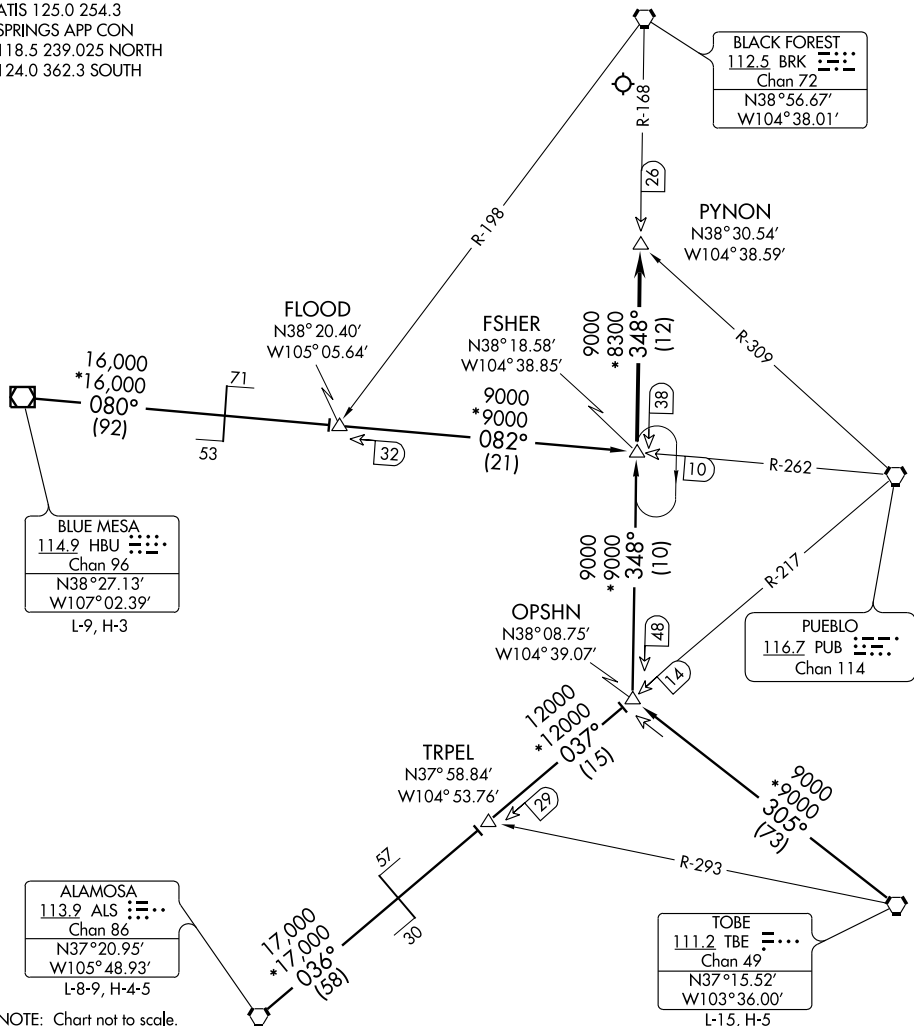


DEBERRY ONE ARRIVAL

ST-87 (FAA)

CITY OF COLORADO SPRINGS MUNI
COLORADO SPRINGS, COLORADO

ATIS 125.0 254.3
SPRINGS APP CON
118.5 239.025 NORTH
124.0 362.3 SOUTH



ALAMOSA TRANSITION (ALS.DBRY1): From over ALS VORTAC via ALS R-036 and PUB R-217 to OPSHN INT, then via BRK R-168 to FSHER INT. Thence. . .

BLUE MESA TRANSITION (HBU.DBRY1): From over HBU VOR/DME via HBU R-080 and PUB R-262 to FSHER INT. Thence. . .

TOBE TRANSITION (TBE.DBRY1): From over TBE VORTAC via TBE R-305 and BRK R-168 to FSHER INT. Thence. . .

. . . From over FSHER INT via the BRK R-168 to PYNON INT. Expect radar vectors to the final approach course at or before PYNON INT.

LOST COMMUNICATIONS: Proceed to BRK VORTAC.

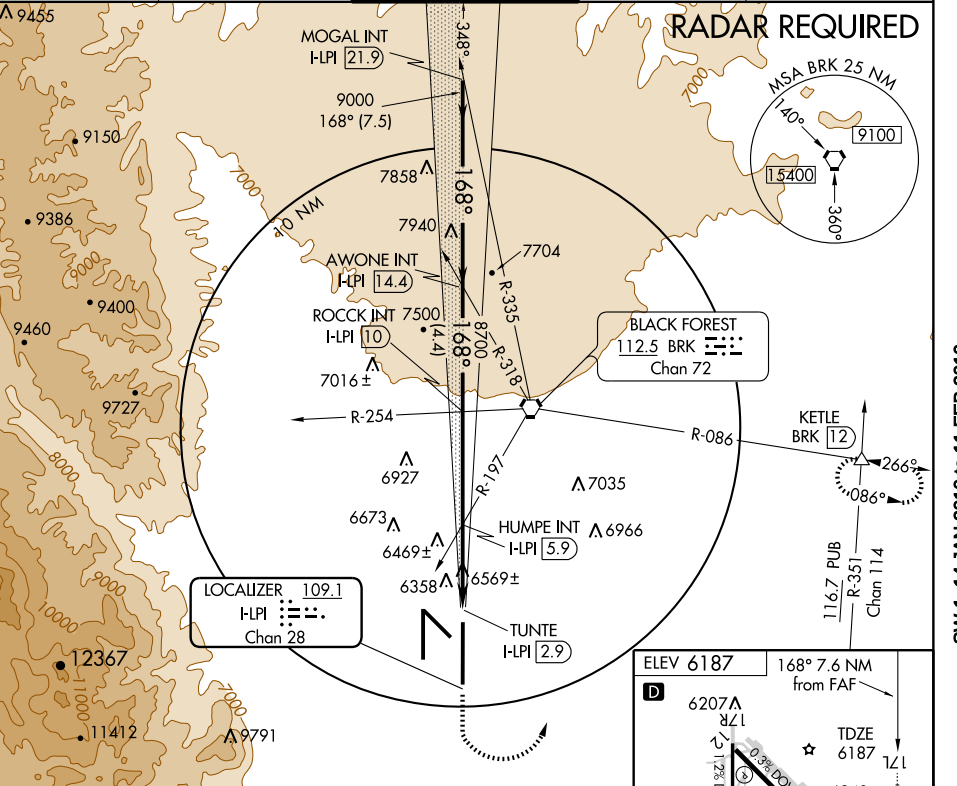
▼

▲

MALSR

MISSED APPROACH: Climb to 7200, then climbing left turn to 10000 via heading 030° and BRK VORTAC R-086 to KETLE Int and hold.

ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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Use I-LPI DME when on LOC course.

* LOC only

7200 10000 BRK KETLE
↑ 030° R-086
VGSI and ILS glidepath not coincident.

MOGAL INT I-LPI 21.9	AWONE INT I-LPI 14.4	ROCCK INT I-LPI 10	HUMME INT I-LPI 5.9	TUNTE I-LPI 2.9
10000	9000	8700	7380	
Procedure Turn NA	GS 3.00° TCH 57			
7.5 NM	4.4 NM	4.1 NM	3 NM	0.5

ELEV 6187 168° 7.6 NM from FAF

CATEGORY	A	B	C	D
S-ILS 17L	6387/18 200 (200-½)			
S-LOC 17L	6820/24 633 (700-½)	6820/60 633 (700-¼)	6820-1½ 633 (700-½)	
CIRCLING	6820-1 633 (700-1)	6820-1¾ 633 (700-¾)	6840-2 653 (700-2)	

MIRL Rwy 12-30

HIRL Rwy 17R-35L and 17L-35R

REIL Rwy 12, 17R, 30 and 35R

TDZ/CL Rwy 17L and 35R

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

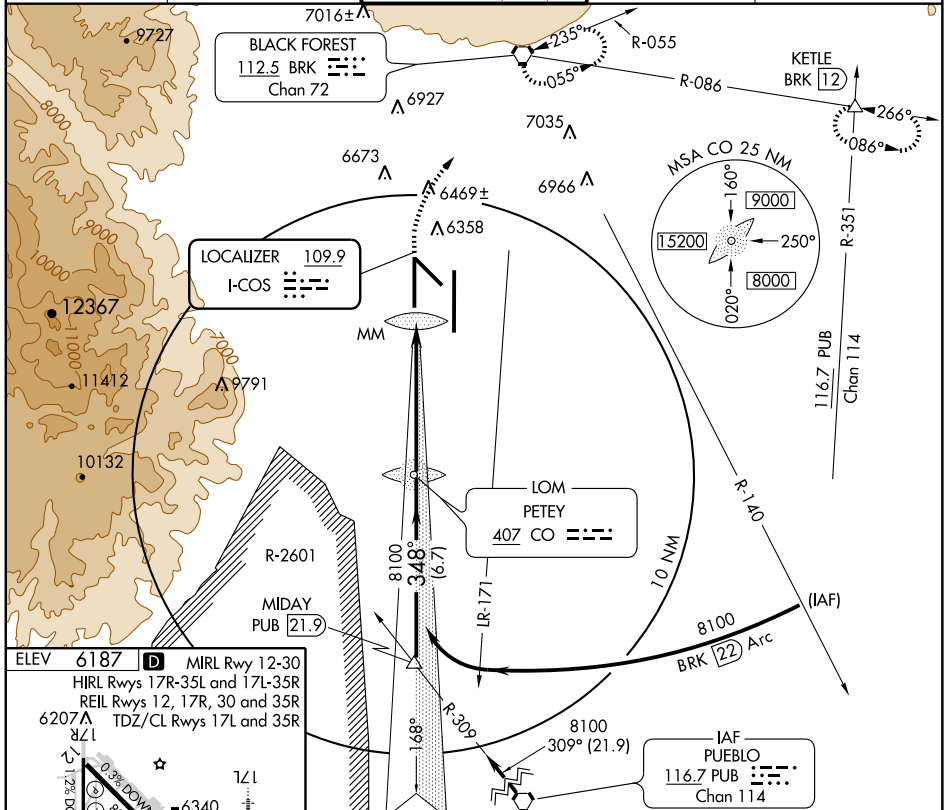
LOC I-COS	APP CRS	Rwy Idg	11022
109.9	348°	TDZE	6075
		Apt Elev	6187

ILS or LOC RWY 35L

COLORADO SPRINGS/CITY OF COLORADO SPRINGS MUNI (COS)

⚠ Radar monitoring required when R-2601 in use. ⚠ Cat D S-LOC 35L visibility increased to RVR 5000 for inoperative ALSF. *RVR 1800 authorized with the use of FD or AP or HUD to DA.	MAISR AS	MISSED APPROACH: Climb to 8000, then climbing right turn to 9000 direct BRK VORTAC and hold. (TACAN only aircraft continue to KETLE 12 DME and hold E, LT, 266° inbound.)
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ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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ELEV 6187 MIRL Rwy 12-30 HIRL Rws 17R-35L and 17L-35R REIL Rws 12, 17R, 30 and 35R TDZ/CL Rws 17L and 35R	8000 9000 BRK 112.5 VGSI and ILS glidepath not coincident. LOM 8030 MM 348° 8100 8100 0.6 5.4 NM 6.7 NM	MIDAY INT PUB 21.9 Procedure Turn NA GS 3.00° TCH 51
FAF to MAP 5.4 NM	CATEGORY A B C D	S-ILS 35L *6275/24 200 (100-½)
S-LOC 35L	6340/24 265 (200-½)	6340/40 265 (200-¾)
CIRCLING	6740-1 553 (600-1) 6760-1 573 (600-1) 6760-1½ 573 (600-1½)	6840-2 653 (700-2)

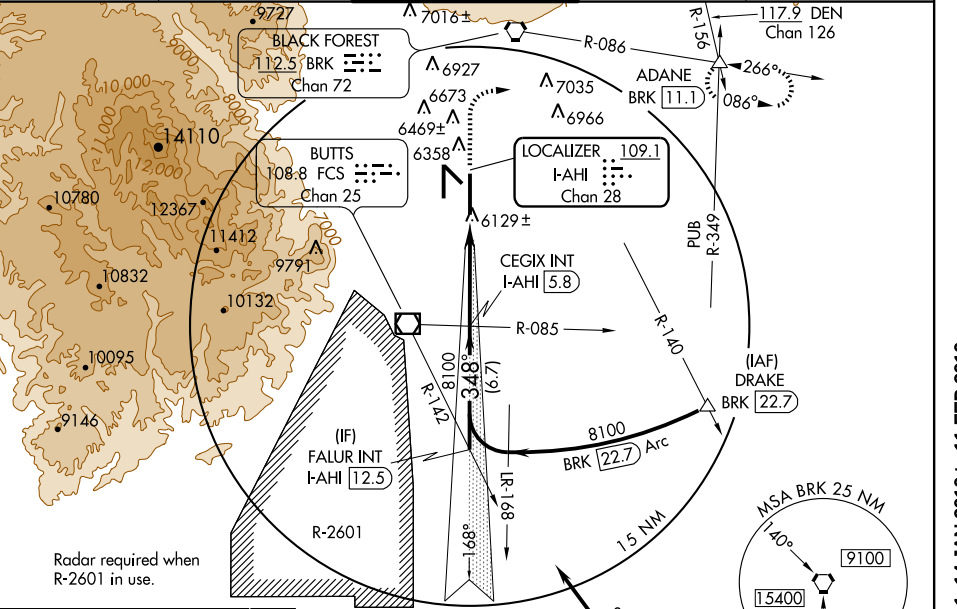
▲

▲

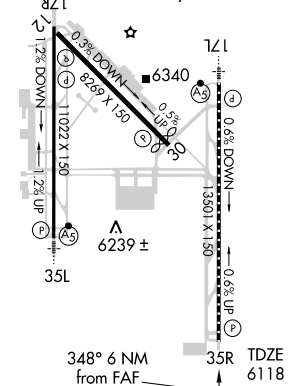
If local altimeter setting not received, use Centennial altimeter setting and increase all DAs/MDAs 160 feet.

MISSED APPROACH: Climb to 6600 then climbing right turn to 10000 via heading 047° and BRK VORTAC R-086 to ADANE INT/ BRK 11.1 DME and hold, continue climb-in-hold to 10000.

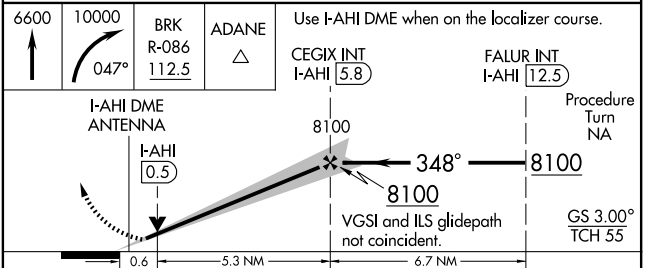
ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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ELEV 6187 **D** MIRL Rwy 12-30
HIRL Rws 17R-35L and 17L-35R
REIL Rws 12, 17R, 30 and 35R
TDZ/CL Rws 17L and 35R

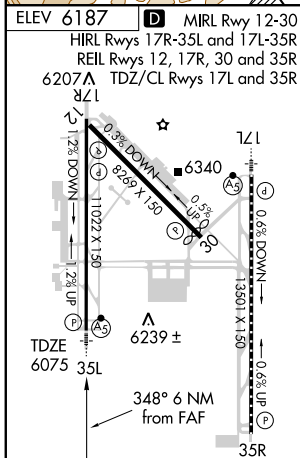
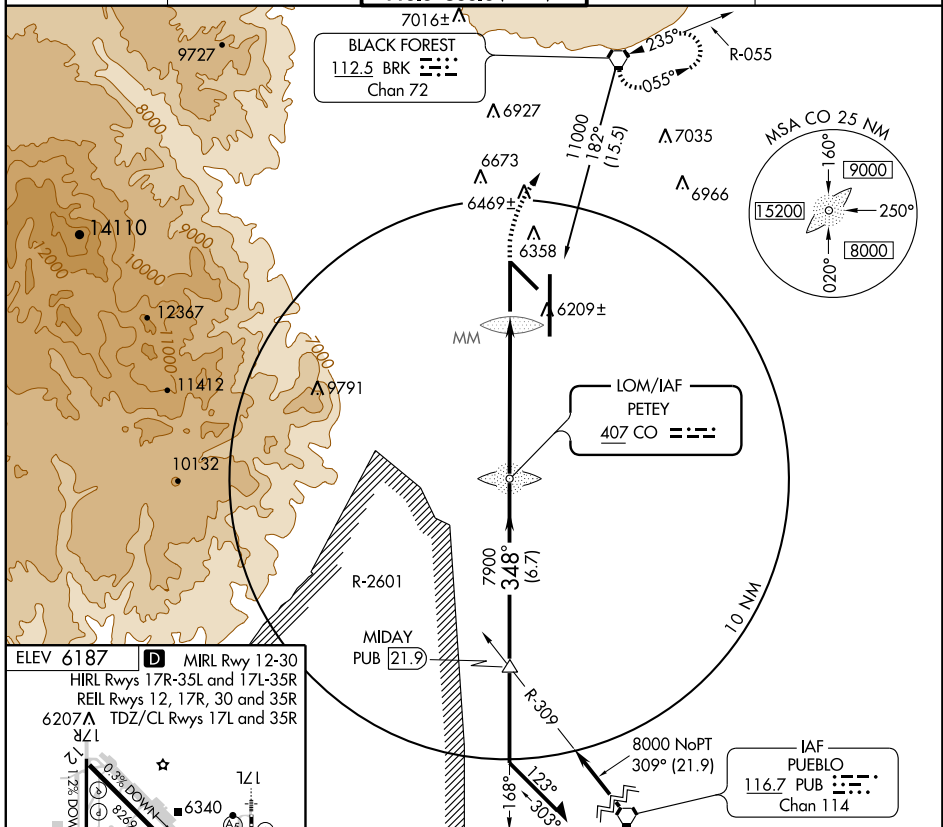


Procedure NA for arrivals on
PUB VORTAC airway radials
262 CW 333.



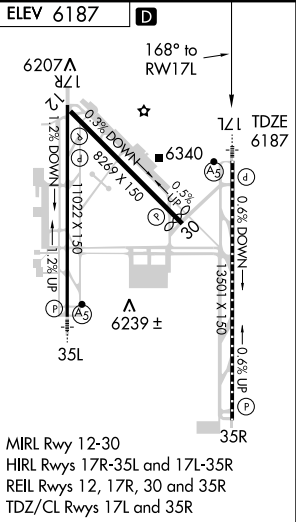
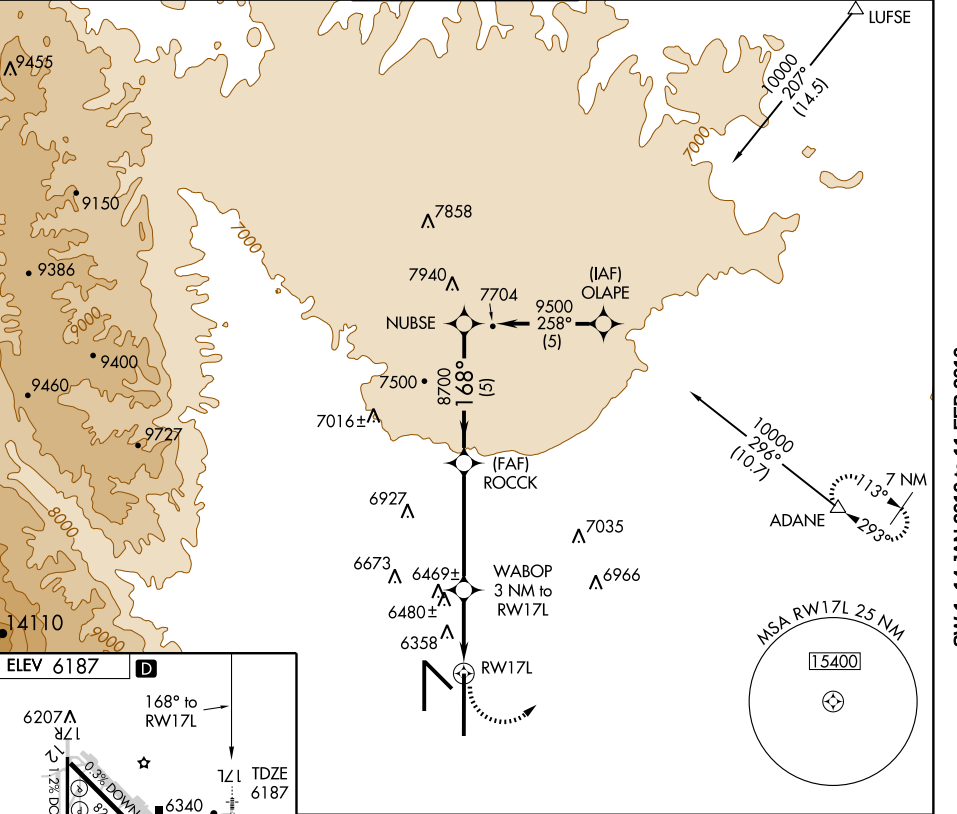
CATEGORY	A	B	C	D
S-ILS 35R	6318-¾ 200 (200-¾)			
S-LOC 35R	6380-1 262 (200-1)			
CIRCLING	6740-1 553 (600-1)	6760-1 573 (600-1)	6760-1½ 573 (600-1½)	6840-2 653 (700-2)

ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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FAF to MAP 6 NM						S-35L	6520/40 445 (400- $\frac{3}{4}$)			6520/60 445 (400-1 $\frac{1}{4}$)	
Knots	60	90	120	150	180	CIRCLING	6740-1	6760-1	6760-1 $\frac{1}{2}$	6840-2	7140-3
Min:Sec	6:00	4:00	3:00	2:24	2:00		553 (600-1)	573 (600-1)	573 (600-1 $\frac{1}{2}$)	653 (700-2)	953 (1000-3)

DME/DME RNP-0.3 NA.		MALSR	MISSED APPROACH: Climbing left turn to 10000 direct ADANE and hold.	
ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125



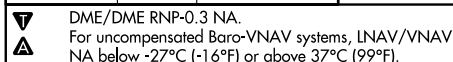
NUBSE		ROCCK	WABOP 3 NM to RW17L	1.6 NM to RW17L	RW17L
9500		8700	7240		
Procedure Turn NA		168°	3.15° TCH 54		
5 NM		4.6 NM	1.4	1.6	
CATEGORY	A	B	C	D	
LNAV MDA	6740/24	553 (600-½)	6740/50 553 (600-1)	6740/60 553 (600-1¼)	
CIRCLING	6740-1	556 (600-1)	6740-1½ 556 (600-1½)	6800-2 613 (700-2)	

SW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 72800 W17A	APP CRS 168°	Rwy Idg 11022 TDZE 6177 Apt Elev 6187
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RNAV (GPS) RWY 17R

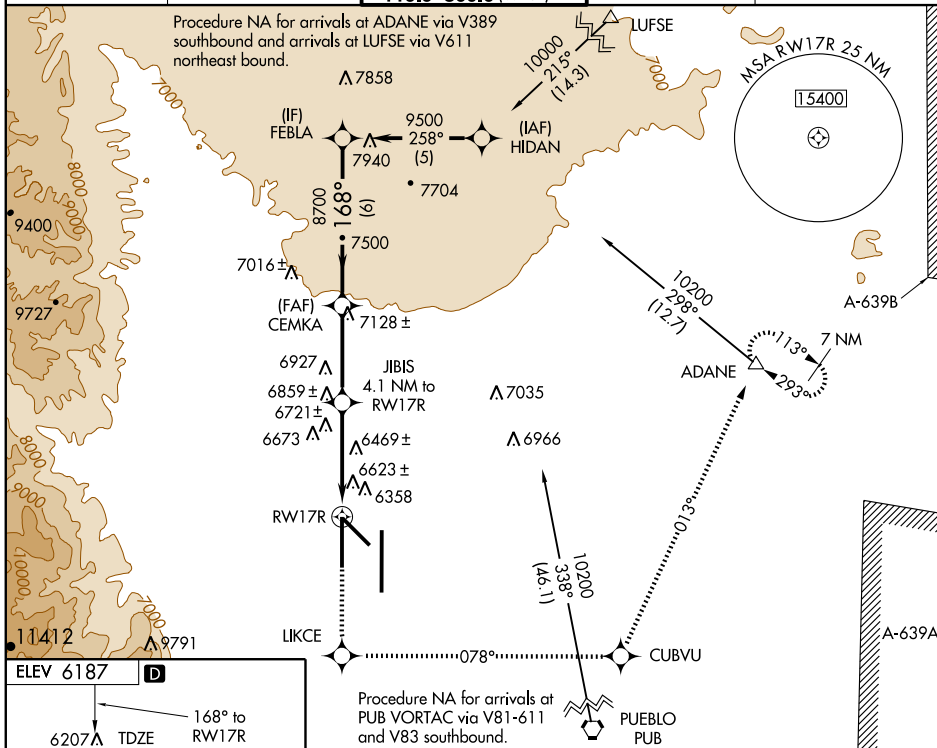
COLORADO SPRINGS/CITY OF COLORADO SPRINGS MUNI (COS)



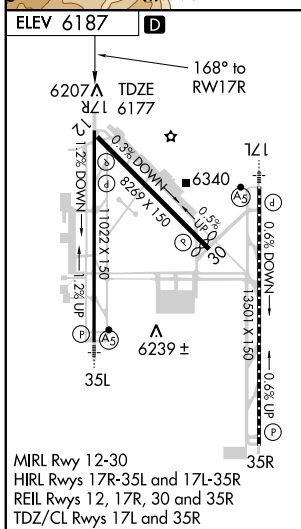
MISSED APPROACH: Climb to 10200 direct LIKCE and left turn via 078° track to CUBVU and 013° track to ADANE and hold.

ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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Procedure NA for arrivals at ADANE via V389 southbound and arrivals at LUFSE via V611 northeast bound.



SW-1: 14 JAN 2010 to 11 FEB 2010



FEBLA <u>9500</u> Procedure Turn NA GS 3.00° TCH 59		CEMKA <u>8700</u>		10200 ↑ UKCE ✧ 078° track CUBVU ✧ 013° track ADANE △		JIBIS 4.1 NM to RW17R *2.3 NM to RW17R RW17R		* LNAV only	
6 NM		3.5 NM		1.8		2.3		6 NM	
CATEGORY	A	B	C	D					
LPV DA	6537-1¼ 360 (400-1¼)								
LNAV/VNAV DA	6742-2 565 (600-2)								
LNAV MDA	6980-1 803 (800-1)	6980-1¼ 803 (800-1¼)	6980-2¼ 803 (800-2¼)	6980-2½ 803 (800-2½)					
CIRCLING	6980-1 793 (800-1)	6980-1¼ 793 (800-1¼)	6980-2¼ 793 (800-2¼)	6980-2½ 793 (800-2½)					

▼

DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 10000
direct ADANE and hold.

ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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ELEV 6187 (D)

MIRL Rwy 12-30
HIRL Rlys 17R-35L and 17L-35R
REIL Rlys 12, 17R, 30 and 35R
TDZ/CL Rlys 17L and 35R

CATEGORY	A		B		C		D	
	6580-1		424 (400-1)		6580-1 $\frac{1}{4}$		424 (400-1 $\frac{1}{4}$)	
LNNAV MDA	6580-1		424 (400-1)		6580-1 $\frac{1}{4}$		424 (400-1 $\frac{1}{4}$)	
CIRCLING	6740-1		553 (600-1)		6740-1 $\frac{1}{2}$		6800-2	
					553 (600-1 $\frac{1}{2}$)		613 (700-2)	

SW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 53602 W35A	APP CRS 348°	Rwy Idg TDZE Apt Elev	13501 6118 6187
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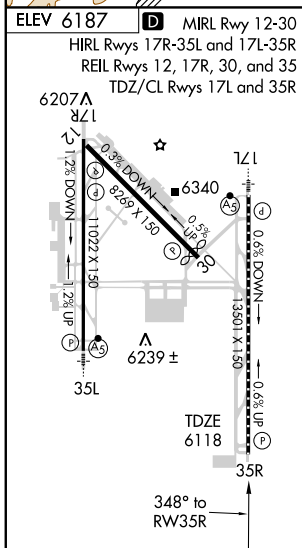
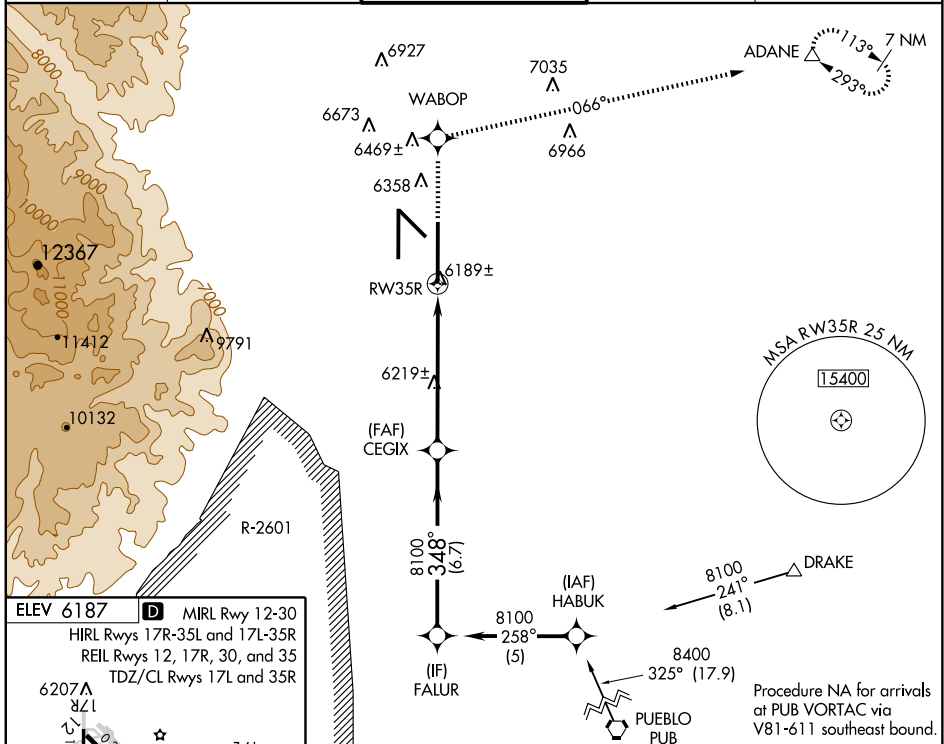
RNAV (GPS) RWY 35R

COLORADO SPRINGS/CITY OF COLORADO SPRINGS MUNI (COS)

⚠ Baro-VNAV NA when using Centennial altimeter setting. If local altimeter setting not received, use Centennial altimeter setting and increase all DAs/MDAs 160 feet. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 37°C (98°F).
DME/DME RNP -0.3 NA. VDP NA when using Centennial altimeter setting.

MISSED APPROACH: Climb to 10000 direct WABOP and via 066° track to ADANE and hold, continue climb-in-hold to 10000.

ATIS 125.0 254.3	SPRINGS APP CON 118.5 239.025	SPRINGS TOWER 133.15 335.55 (EAST) 119.9 360.6 (WEST)	GND CON 121.7 348.6	CLNC DEL 134.45 363.125
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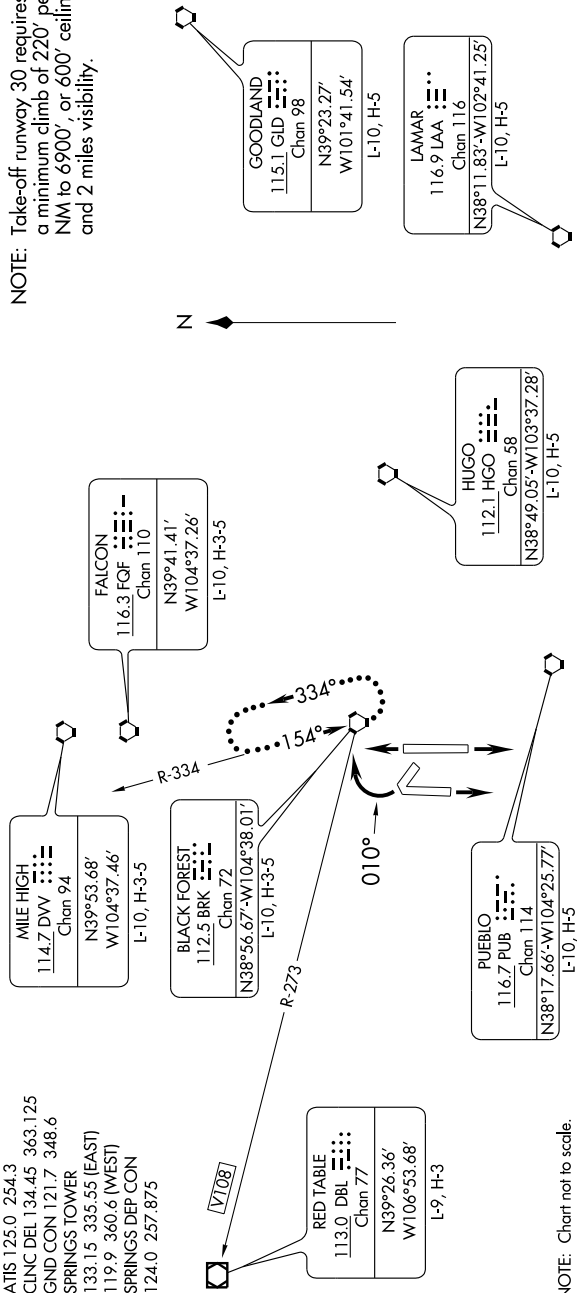
10000	WABOP	066° track	ADANE	VGSI and RNAV glidepath not coincident.
*RNAV only	*1 NM to RW35R			CEGIX
				FALUR
				Procedure Turn NA
				GS 3.00° TCH 55'
CATEGORY	A	B	C	D
LPV DA	6368-1	250 (200-1)		
LNAV/VNAV DA	6459-1¼	341 (300-1¼)		
LNAV MDA	6480-1	362 (300-1)		6480-1¼ 362 (300-1¼)
CIRCLING	6740-1 553 (600-1)	6760-1 573 (600-1)	6760-1½ 573 (600-1½)	6840-2 653 (700-2)

SPRINGS TWO DEPARTURE

SL-87 (FAA)

COLORADO SPRINGS, COLORADO

NOTE: Take-off runway 30 requires a minimum climb of 220' per NM to 6900', or 600' ceiling and 2 miles visibility.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12, 17R/L, 35R/L: Fly runway/assigned heading for radar vectors to filed/assigned route.

Thence

TAKE-OFF RUNWAY 30: Turn right within 2 NM heading 010° or assigned heading for radar vectors to filed/assigned route.

Thence

. Maintain 10,000'. Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with ATC within 1 minute after departure from runways 12 and 17L/R turn left, from runways 30 and 35L/R turn right. All aircraft climb to filed altitude via direct BRK VORTAC, thence via filed/assigned route. Aircraft filed V108 westbound: continue climb in holding pattern to cross BRK VORTAC at or above 14,000'.

▼

▲NA

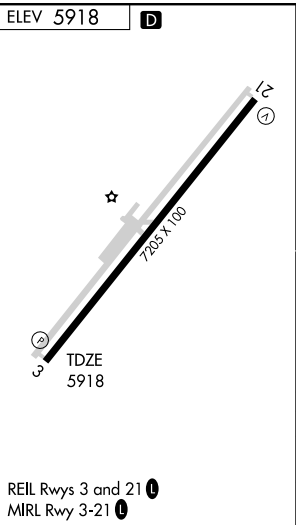
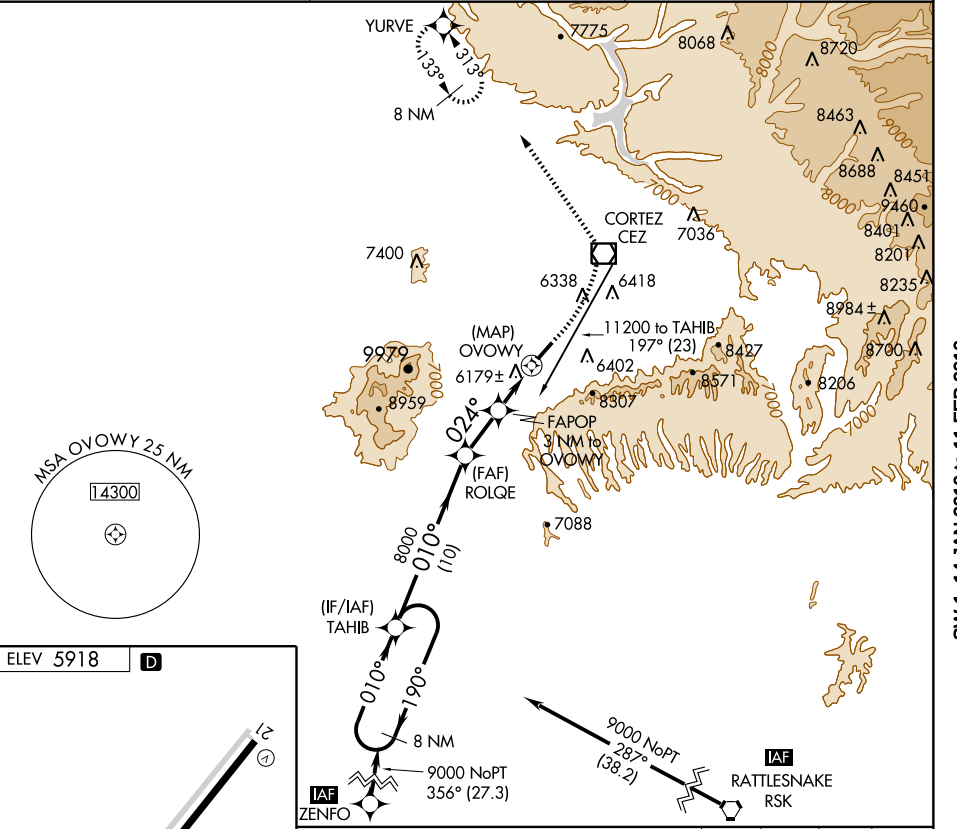
IAF

ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH:

Climb to 9800 via left turn direct CEZ VOR/DME and 313° track to YURVE WP and hold.

ASOS 135.625	DENVER CENTER 118.575 348.7	UNICOM 122.8 (CTAF) 0
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CATEGORY	A		B		C		D	
	4 NM		3 NM		2 NM		1 NM	
LNNAV MDA	6440-1 522 (600-1)		6440-1½ 522 (600-1½)		6440-1½ 522 (600-1½)		6440-1¾ 522 (600-1¾)	
CIRCLING	6560-1 642 (700-1)		6600-2 682 (700-2)		6600-2 682 (700-2)		6800-3 882 (900-3)	

SW-1. 14 JAN 2010 to 11 FEB 2010

▼

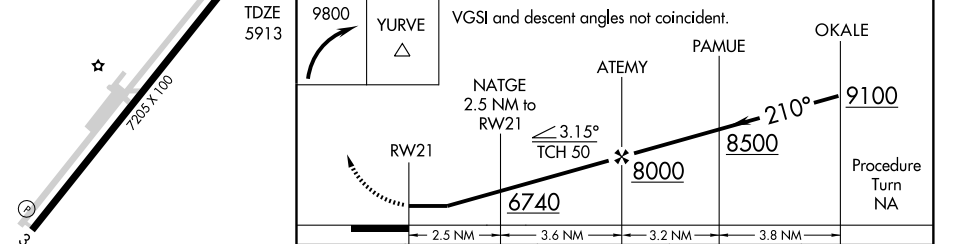
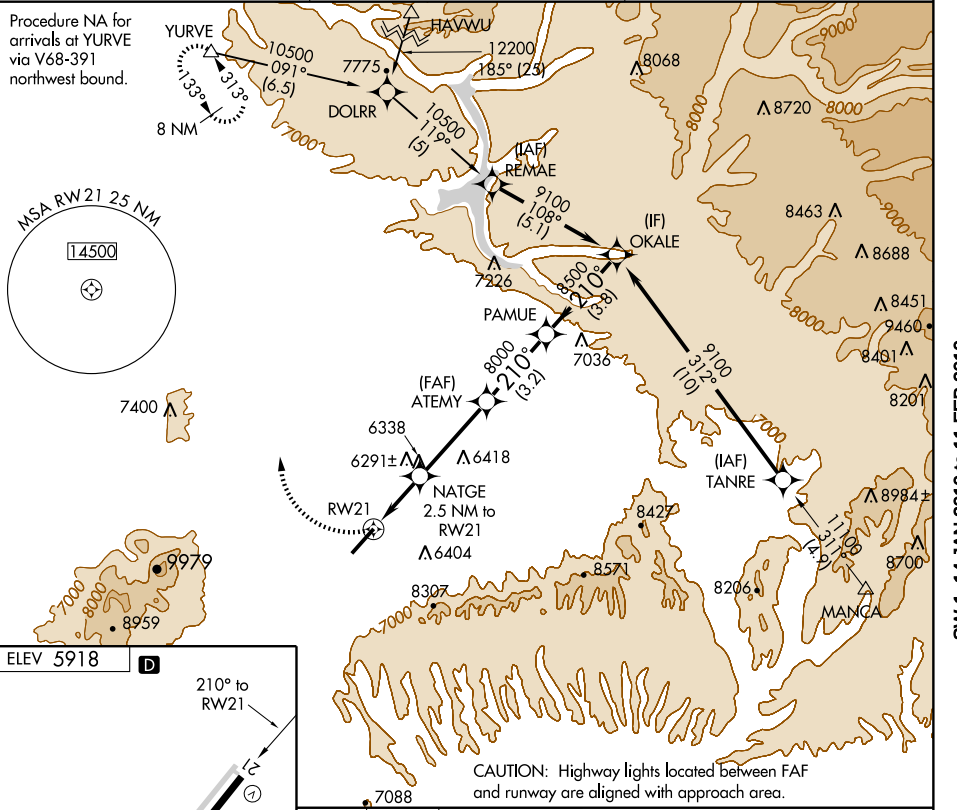
DME/DME RNP-0.3 NA.

▲

When VGSI inop, procedure NA at night.

MISSED APPROACH: Climbing right turn to 9800 direct YURVE and hold.

ASOS 135.625	DENVER CENTER 118.575 348.7	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	6560-1 647 (700-1)		6560-1¾ 647 (700-1¾)	6560-2 647 (700-2)
CIRCLING	6560-1 642 (700-1)		6600-2 682 (700-2)	6800-3 882 (900-3)

REIL Rwy 3 and 21 0

MIRL Rwy 3-21 0

SW-1, 14 JAN 2010 to 11 FEB 2010

WAAS CH 99699 W21A	APP CRS 210°	Rwy Idg 7205 TDZE 5913 Apt Elev 5918
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RNAV (GPS) Z RWY 21

CORTEZ MUNI (CEZ)



DME/DME RNP-0.3 NA.

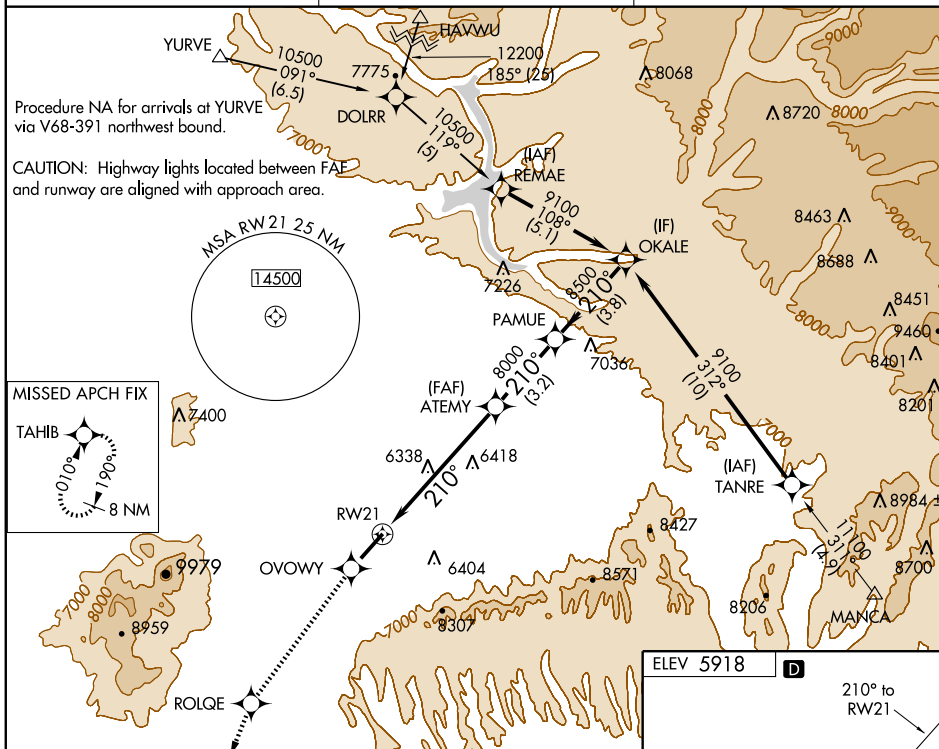
When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 9000 direct OVOWY and via 205° track to ROLQE and via 190° track to TAHIB and hold.

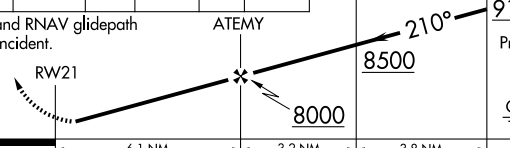
ASOS
135.625

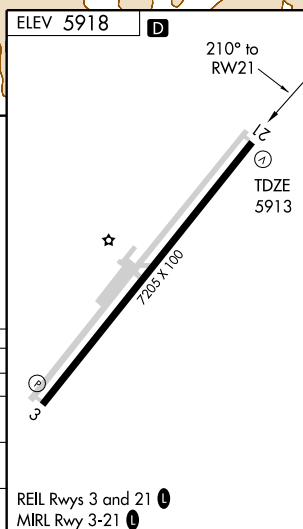
DENVER CENTER
118.575 348.7

UNICOM
122.8 (CTAF) **L**



SW-1: 14 JAN 2010 to 11 FEB 2010

9000 ↑	OVOWY ✧	205° track	ROLQE ✧	190° track	TAHIB ✧	PAMUE	OKALE
VGSI and RNAV glidepath not coincident.							
CATEGORY	A		B		C		D
LPV DA	6215-1 302 (300-1)						
RNAV/ RNAV DA	NA						
RNAV MDA	7140-1¼ 1227 (1300-1¼)		7140-1½ 1227 (1300-1½)		7140-3 1227 (1300-3)		
CIRCLING	7140-1¼ 1222 (1300-1¼)		7140-1½ 1222 (1300-1½)		7140-3 1222 (1300-3)		



VOR/DME CEZ 108.4 Chan 21	APP CRS 196°	Rwy Idg 7205 TDZE 5913 Apt Elev 5918
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VOR RWY 21
CORTEZ MUNI (CEZ)



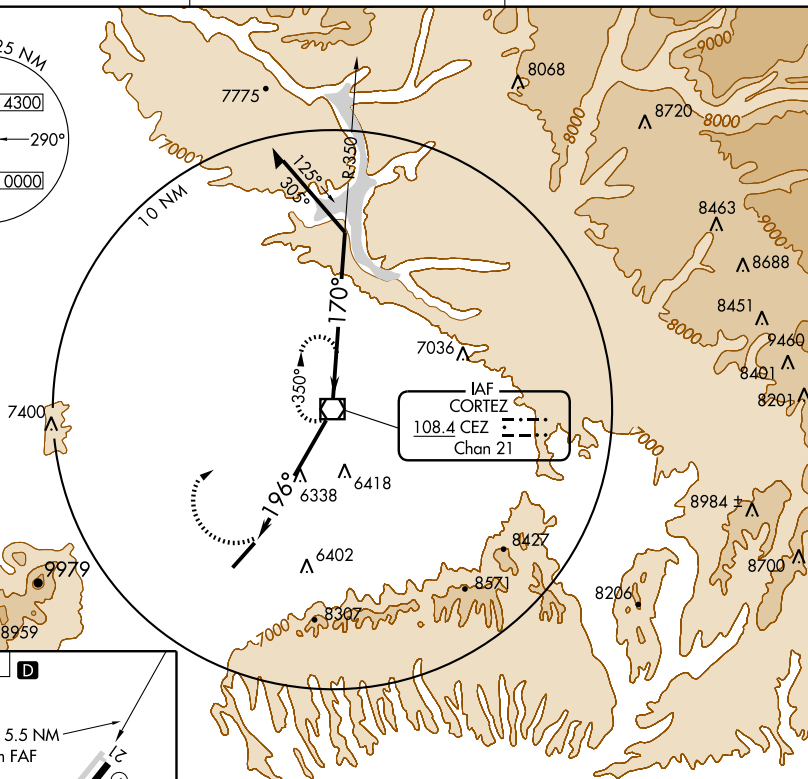
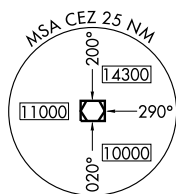
CAUTION: Highway lights located between facility and runway are aligned with approach area.

MISSED APPROACH: Climbing right turn to 9800 direct to CEZ VOR/DME and hold.

ASOS
135,625

DENVER CENTER
118.575 348.7

UNICOM
122.8 (CTAF) **L**



ELEV 5918



5913

9800



108.4

.4

VOR/DME

Remain
within 10 NM

-350°

$$\frac{\angle 3.49^\circ}{\text{TCH } 50}$$

8000

CATEGORY	DESCRIPTION	AMOUNT	DATE
1	...	...	...
2	...	...	...
3	...	...	...
4	...	...	...
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9	...	...	...
10	...	...	...
11	...	...	...
12	...	...	...
13	...	...	...
14	...	...	...
15	...	...	...
16	...	...	...
17	...	...	...
18	...	...	...
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97	...	...	...
98	...	...	...
99	...	...	...
100	...	...	...

A

B

D

С 21

6600-1 687 (700-1)

6600-2
687 (700-2)

6600-2¼
687 (700-2¼)

CIRCUITO

6600-1 682 (700-1)

6600-2

6800-3
882 (000-3)

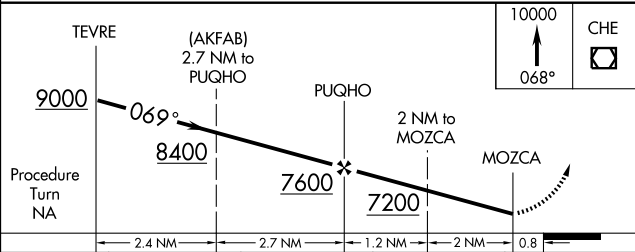
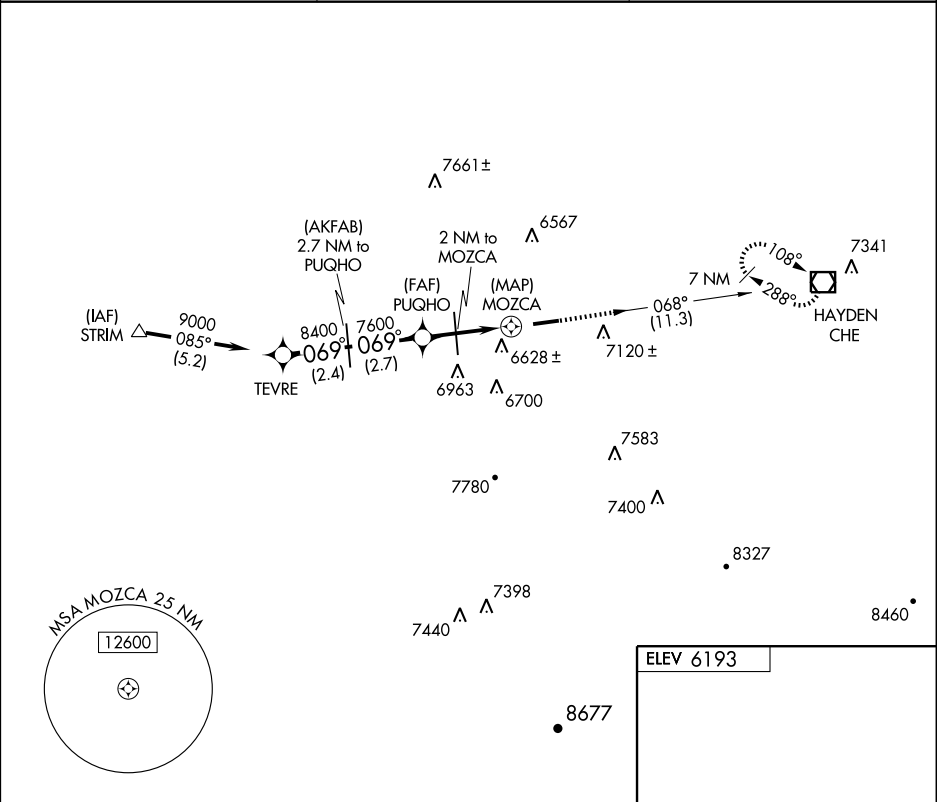
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

APP CRS	Rwy Idg	5600
069°	TDZE	6188
	Apt Elev	6193


NA

MISSED APPROACH: Climb to 10000 via 068° course to CHE VOR/DME and hold.

ASOS 135.425	DENVER CENTER 120.475 235.975	UNICOM 122.8 (CTAF) 
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CATEGORY	A	B	C	D
S-7	6940-1 752 (800-1)	6940-1½ 752 (800-1½)	6940-2½ 752 (800-2½)	6940-2½ 752 (800-2½)
CIRCLING	7220-1½ 1027 (1100-1½)	7320-1½ 1127 (1200-1½)	7420-3	1227 (1300-3)

ELEV 6193

 TDZE 6188

 25

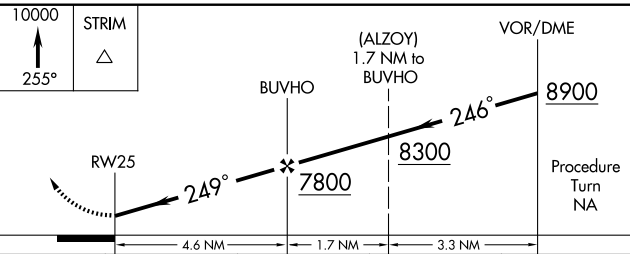
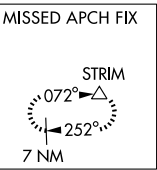
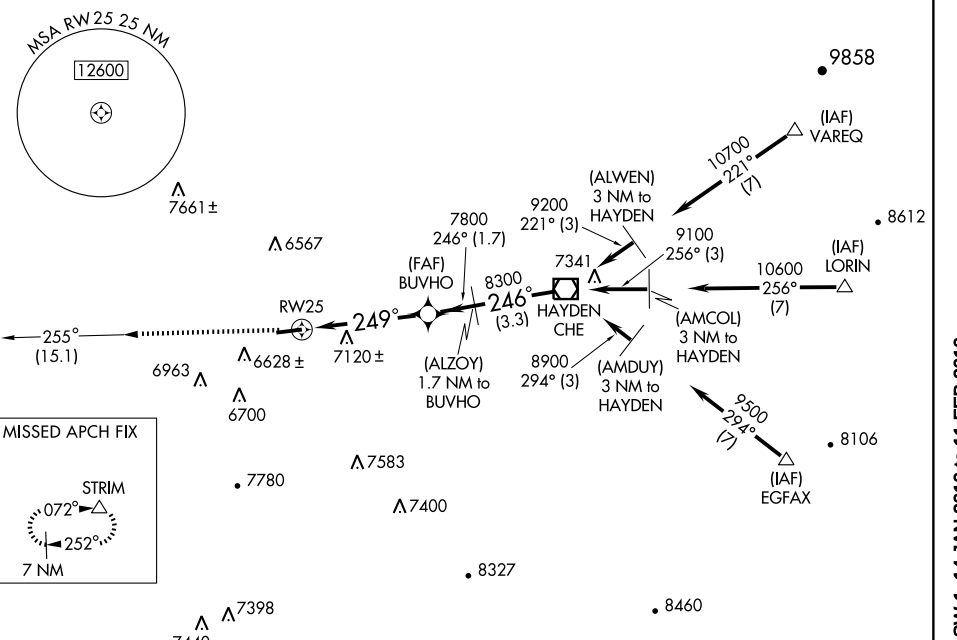
REIL Rwys 7 and 25 
MIRL Rwy 7-25 

▽

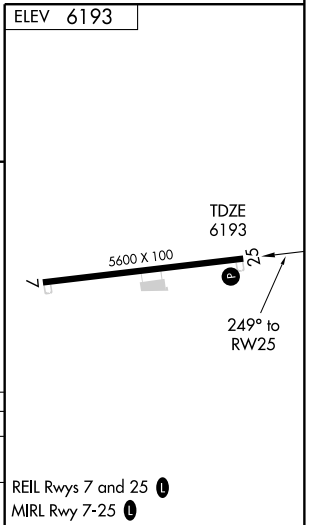
△ NA

MISSED APPROACH: Climb to 10000 via 255° course to STRIM WP and hold.

ASOS 135.425	DENVER CENTER 120.475 235.975	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-25	7380-1¼ 1187 (1200-1¼)	7380-1½ 1187 (1200-1½)	7380-3 1187 (1200-3)	
CIRCLING	7380-1¼ 1187 (1200-1¼)	7380-1½ 1187 (1200-1½)	7420-3 1227 (1300-3)	



SW-1. 14 JAN 2010 to 11 FEB 2010

VOR/DME CHE
115.6
Chan **103**

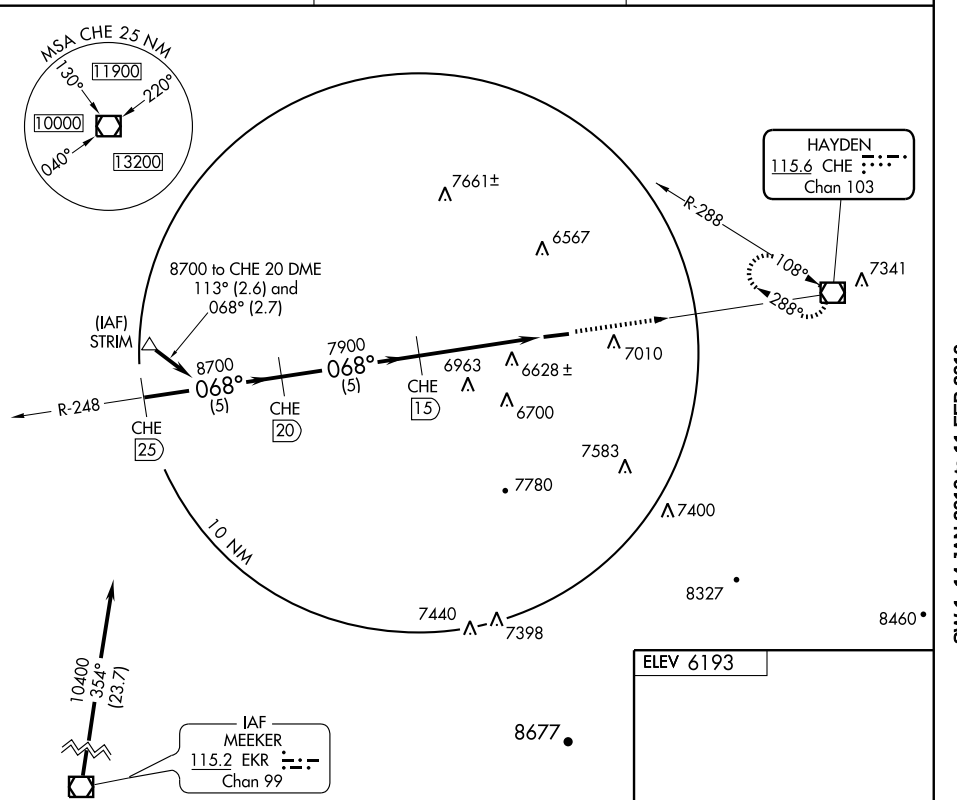
APP CRS
068°

Rwy Idg
TDZE
Apt Elev
5600
6193
6193



MISSED APPROACH: Climb to 9200 direct CHE VOR/DME and hold.

ASOS 135.425	DENVER CENTER 120.475 235.975	UNICOM 122.8 (CTAF)
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CHE 25	CHE 20	CHE 15	9200	CHE 115.6
10400	8700	7900		
Procedure Turn NA				
	5 NM	5 NM	4.5 NM	
CATEGORY	A	B	C	D
S-7	7220-1¼ 1027 (1100-1¼)	7220-1½ 1027 (1100-1½)	7220-3 1027 (1100-3)	
CIRCLING	7220-1¼ 1027 (1100-1¼)	7320-1½ 1127 (1200-1½)	7420-3 1227 (1300-3)	

TDZE 6193

5600 X 100

068° 4.5 NM from FAF

REIL Rwy 7 and 25

MIRL Rwy 7-25

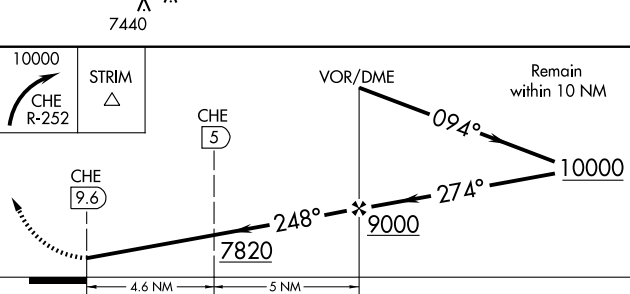
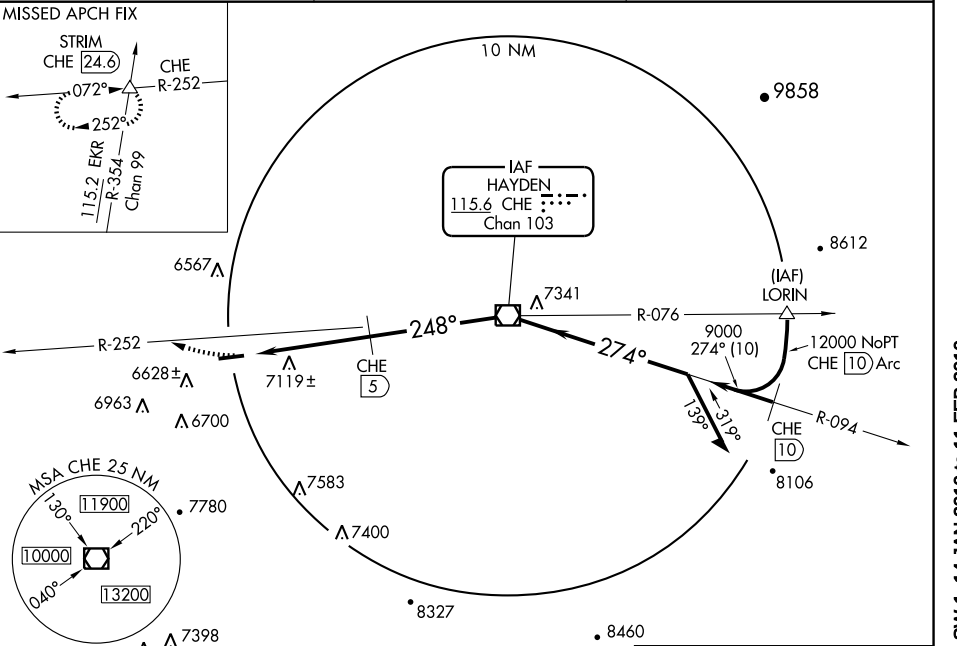
Knots	60	90	120	150	180
Min:Sec					

SW-1. 14 JAN 2010 to 11 FEB 2010



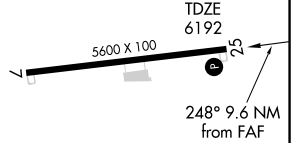
MISSED APPROACH: Climbing right to 10000 via CHE R-252 to STRIM Int and hold.

ASOS 135.425	DENVER CENTER 120.475 235.975	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
S-25	7820-1¼ 1628 (1700-1¼)	7820-1½ 1628 (1700-1½)	7820-3	1628 (1700-3)
CIRCLING	7820-1¼ 1627 (1700-1¼)	7820-1½ 1627 (1700-1½)	7820-3	1627 (1700-3)
DME MINIMA				
S-25	7380-1¼ 1188 (1200-1¼)	7380-1½ 1188 (1200-1½)	7380-3	1188 (1200-3)
CIRCLING	7380-1¼ 1187 (1200-1¼)	7380-1½ 1187 (1200-1½)	7420-3	1227 (1300-3)

ELEV 6193



TDZE 6192

5600 X 100

248° 9.6 NM from FAF

REIL Rwy 7 and 25 1

MIRL Rwy 7-25 1

FAF to MAP 9.6 NM

Knots	60	90	120	150	180
Min:Sec	9:36	6:24	4:48	3:50	3:12

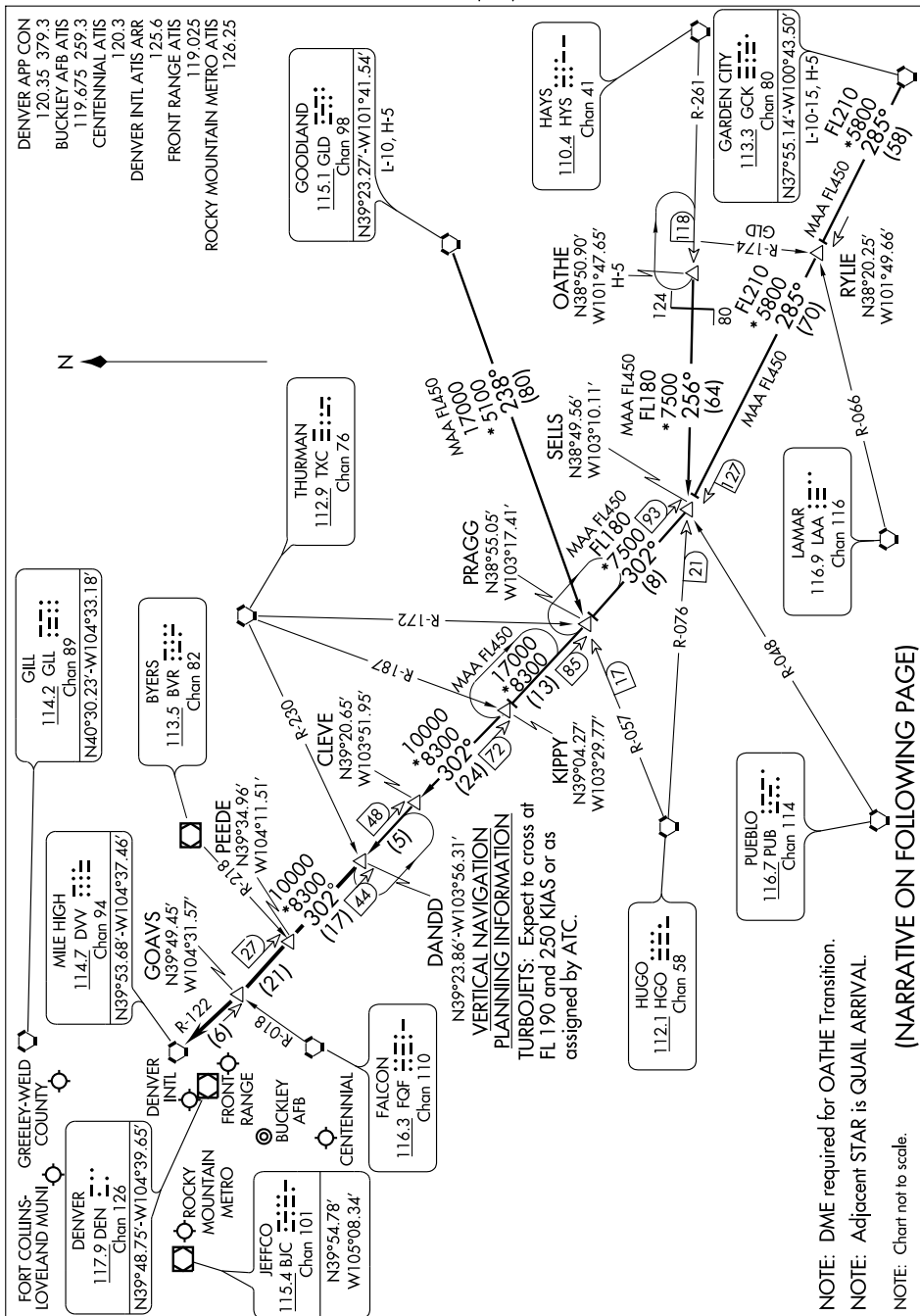
SW-1. 14 JAN 2010 to 11 FEB 2010



DANDD FIVE ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



ARRIVAL DESCRIPTION

GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER FIVE DEPARTURE

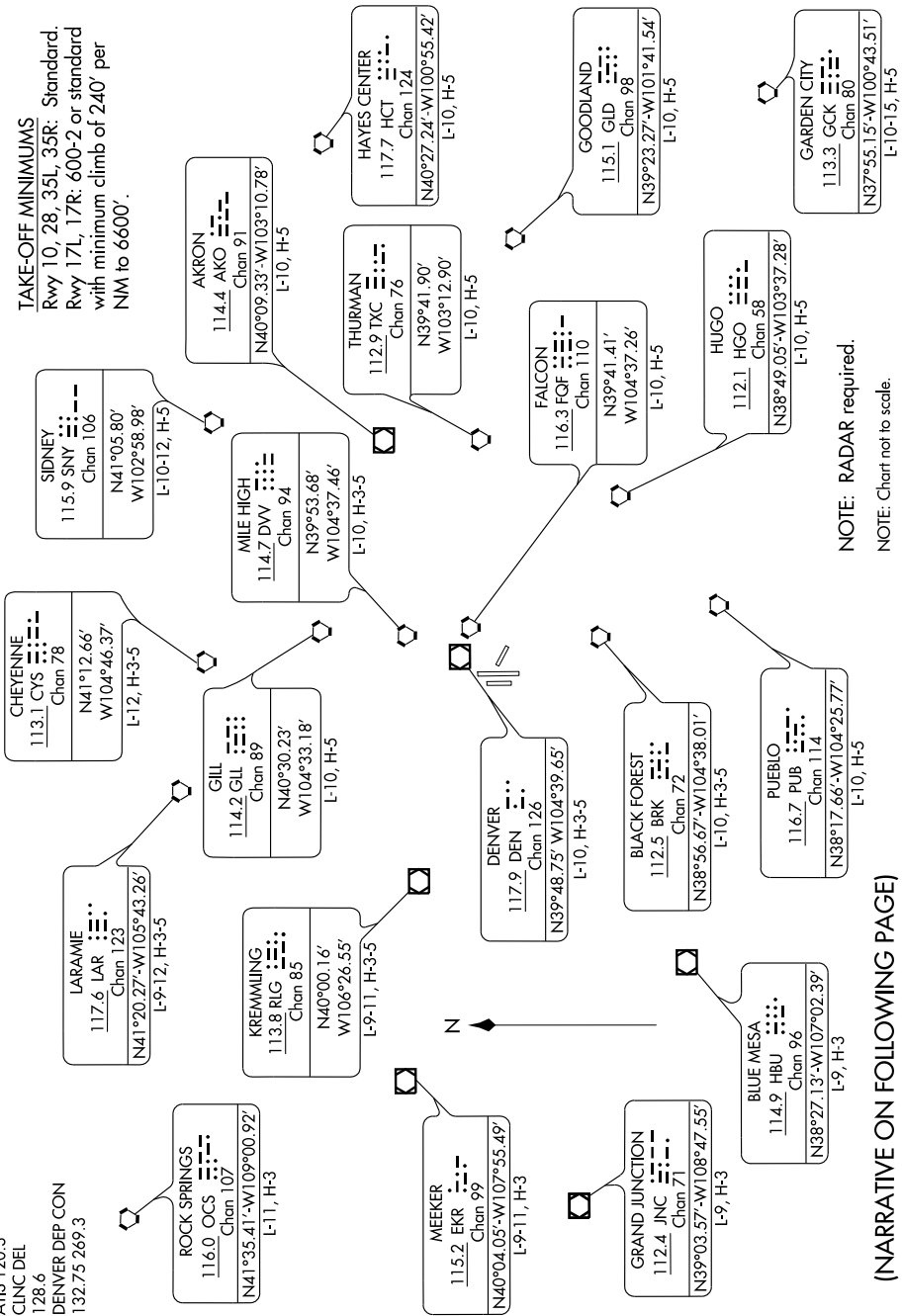
SL-5715 (FAA)

DENVER/ CENTENNIAL (APA)
DENVER, COLORADO

ATIS 120.3
CLNC DEL
128.6
DENVER DEP CON
132.75 269.3

TAKE-OFF MINIMUMS

Rwy 10, 28, 35L, 35R: Standard.
Rwy 17L, 17R: 600-2 or standard
with minimum climb of 240' per
NM to 6600'.



(NARRATIVE ON FOLLOWING PAGE)

DENVER FIVE DEPARTURE

SL-5715 (FAA)

DENVER/ CENTENNIAL (APA)
DENVER, COLORADO

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.



NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER APP CON
120.35 379.3
BUCKLEY AFB ATIS
119.675 259.3
CENTENNIAL ATIS
120.3
DENVER INTL ATIS ARR
125.6
FRONT RANGE ATIS
119.025
ROCKY MOUNTAIN METRO ATIS
126.25

GILL
114.2 GLL ::::
Chan 89
N40°30.23'-W104°33.18'

FORT COLLINS-
LOVELAND MUNI 

 GREELEY-
WELD COUNTY

DENVER
117.9 DEN 
Chan 126
N39°48.75'-W104°

JEFFCO
115.4 BJC 
Chan 101

HUUGE
N39°34.72'
W104°47.91'

PAYDD
N39°24.10'
W105°04.73'

LARKS
N39°15.44'-W105°18.31'
VERTICAL NAVIGATION
PLANNING INFORMATION

TURBOJET: Expect to cross at 17000 and 250 KIAS or as assigned by ATC.

FALCON
116.3 FQF 
Chan 110
N39°41.41'
W104°37.26'

RED TABLE
113.0 DBL 
Chan 77

BLUE MESA
114.9 HBU 
Chan 96

BLACK FOREST
12.5 BRK 
Chn 72

PAPPA
N38°29.61'
W106°28.70'

LOPEC
N38°05.56
W106°51.5
H-3

RATTLESNAKE
115.3 RSK 
Chan 100
6°44.90'-W108°05.93'
L-8, H-4

ON
1.75'
9.51'

110

ALAMOSA
113.9 ALS $\begin{smallmatrix} \text{---} \\ \text{---} \\ \text{---} \end{smallmatrix} \cdot \cdot$
Chan 86
7°20.95'-W105°48.93'
L-8-9, H-4-5

PUEBLO
116.7 PUB 
Chan 114
N38°17.66'-W104°25.77'
L-10, H-5

NOTE: Adjacent STAR is POWDR ARRIVAL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

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* For inoperative MALSR, increase S-35R Cat A visibility to 1¼, increase S-35R Cat B visibility to 1½.

For inoperative MALSR, increase S-35R Cat A, B visibility to 1¼. Circling to Rwy 10 not authorized at night.

MALSR

MISSED APPROACH: Climb to 6900, then climbing right turn to 8700 direct AP LOM and hold.

ATIS 120.3	DENVER APP CON 132.75 269.3	CENTENNIAL TOWER 118.9	GND CON 121.8	CLNC DEL 128.6
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6900	8700	AP 260	LOM	Remain within 10 NM
FQF R-213		TCH 48		347°
2.9 NM		3.4 NM		8000
VGSI and descent angles not coincident.				
CATEGORY	A	B	C	D
S-35R *	6880-¾ 995 (1000-¾)	6880-1 995 (1000-1)	6880-2½ 995 (1000-2½)	6880-2¾ 995 (1000-2¾)
CIRCLING	6880-1¼ 995 (1000-1¼)	6880-1½ 995 (1000-1½)	6880-3	995 (1000-3)
VOR MINIMUMS				
S-35R #	6780-¾ 895 (900-¾)	6780-2¼ 895 (900-2¼)	6780-2¾ 895 (900-2¾)	6780-3 895 (900-3)
CIRCLING	6780-1¼ 895 (900-1¼)	6780-2¾ 895 (900-2¾)	6780-3	895 (900-3)

ELEV 5885

MIRL all Rwy

REIL Rwy 17R, 28, and 35L

FAF to MAP 6.3 NM

Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

SW-1. 14 JAN 2010 to 11 FEB 2010

PIKES FOUR DEPARTURE

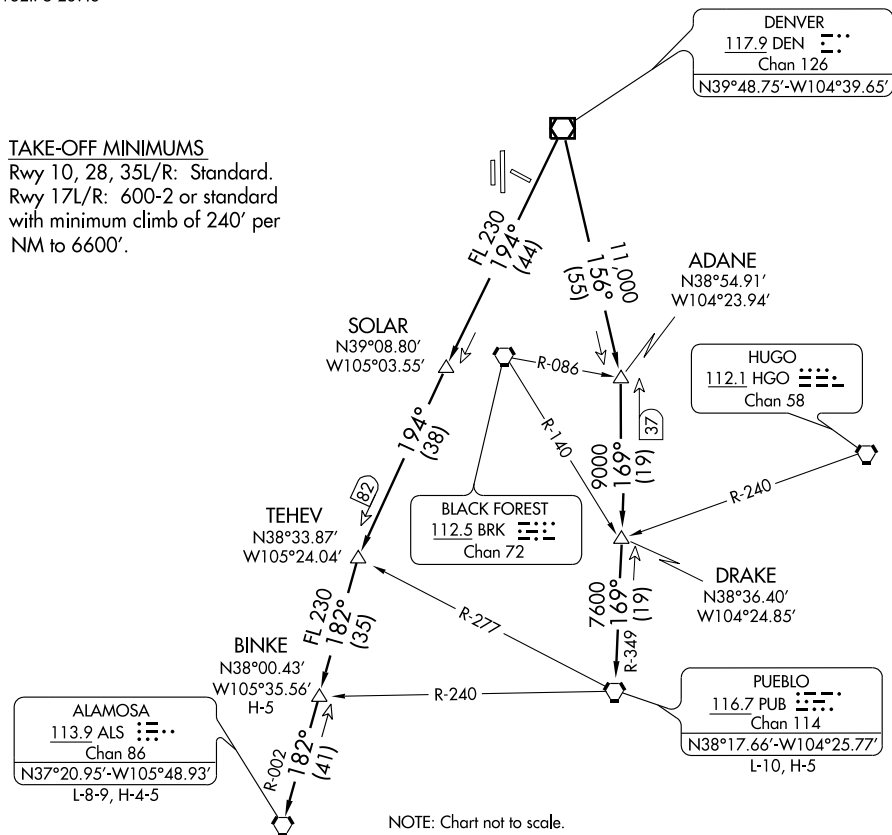
SL-5715 (FAA)

DENVER/CENTENNIAL (APA)
DENVER, COLORADO

ATIS 120.3
CLNC DEL
128.6
DENVER DEP CON
132.75 269.3

TAKE-OFF MINIMUMS

Rwy 10, 28, 35L/R: Standard.
Rwy 17L/R: 600-2 or standard
with minimum climb of 240' per
NM to 6600'.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

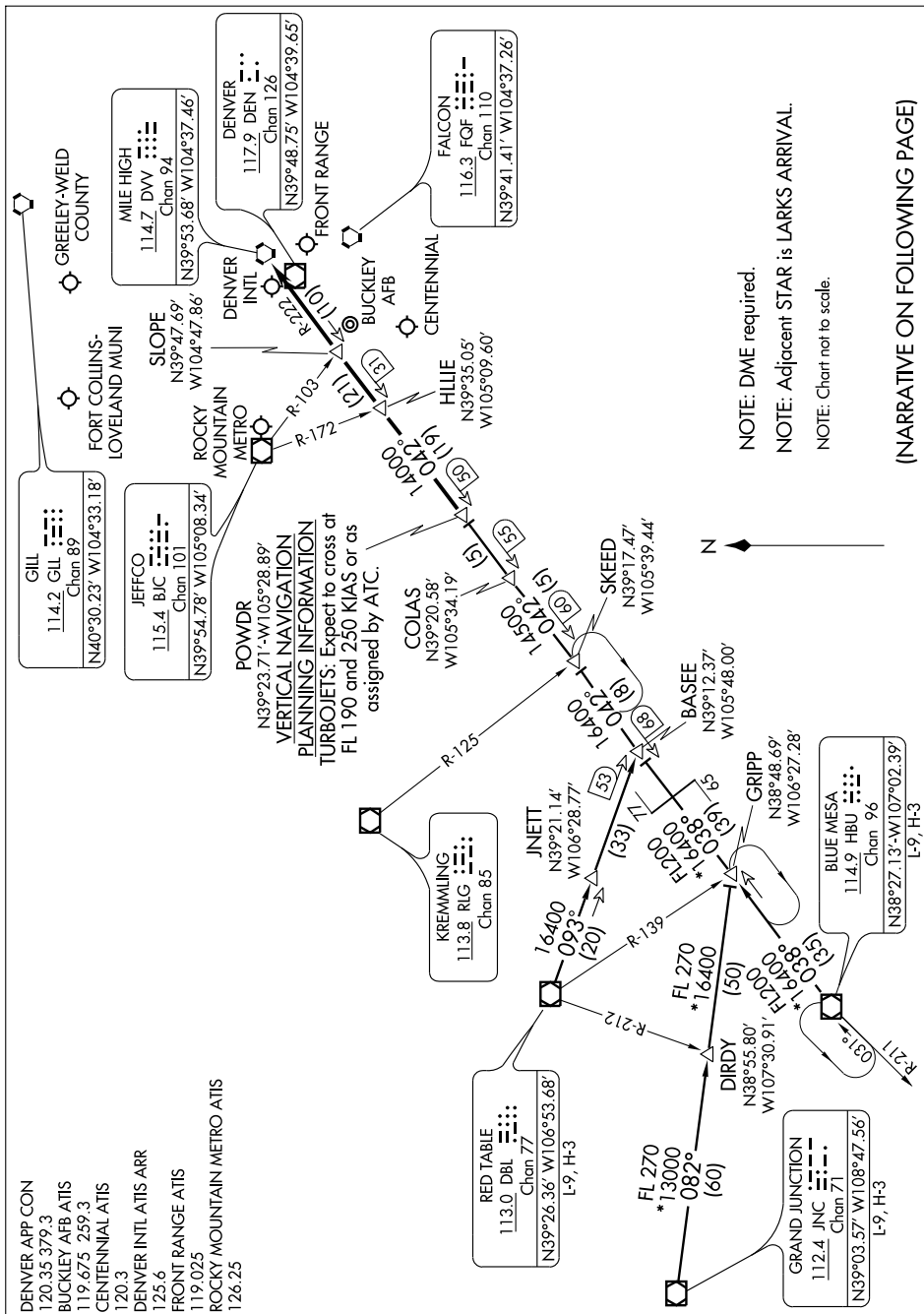
THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.

POWDR SEVEN ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

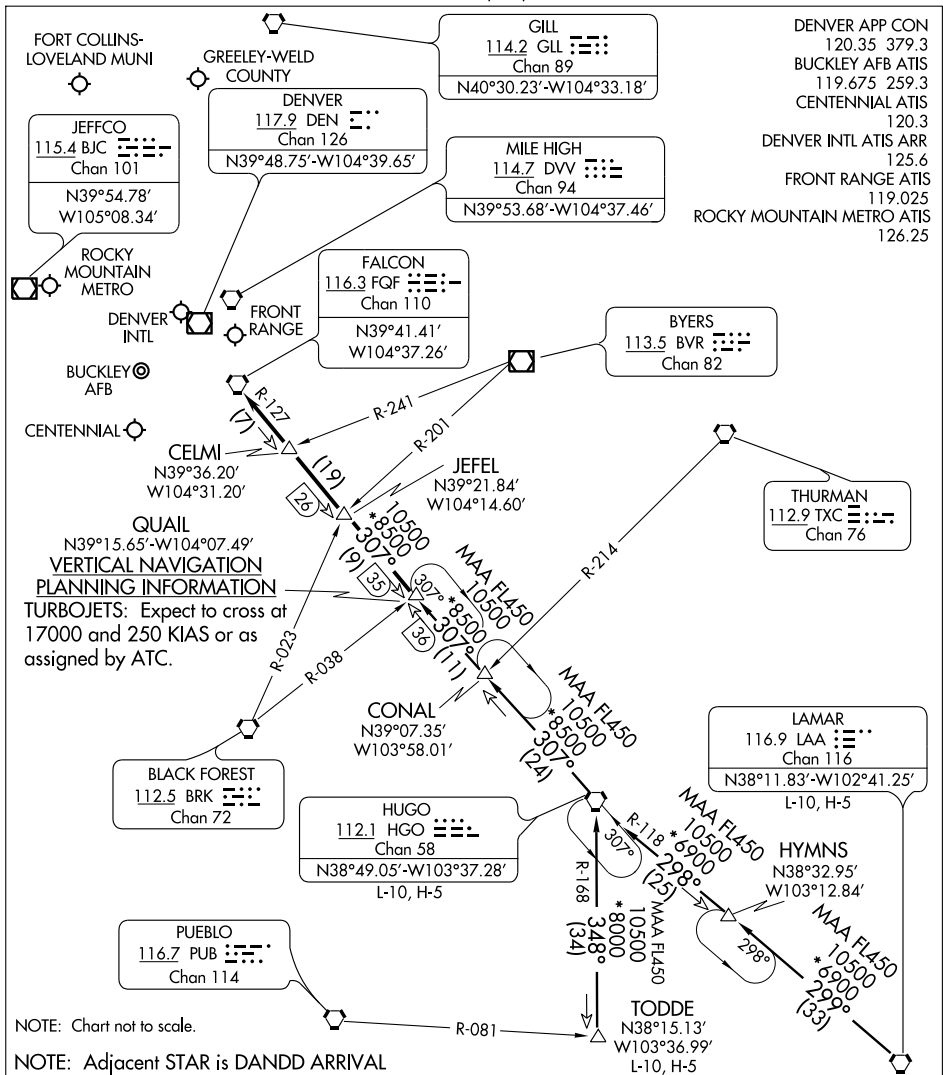
RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.

QUAIL SIX ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to QUAIL INT. Thence....

TODDE TRANSITION (TODDE.QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
 Expect radar vectors to the final approach course at or before FQF VORTAC.

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for ROCK SPRINGS TRANSITION for Changeover Point.

NOTE: Adjacent STAR is TOMSN ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

WAAS CH 82107 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev 4800 5813 5885
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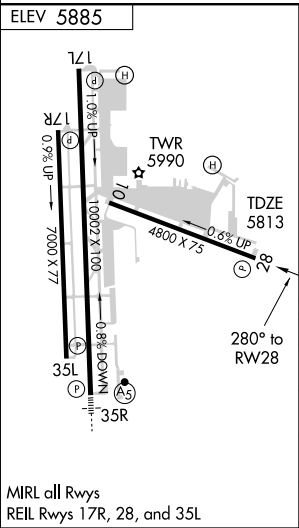
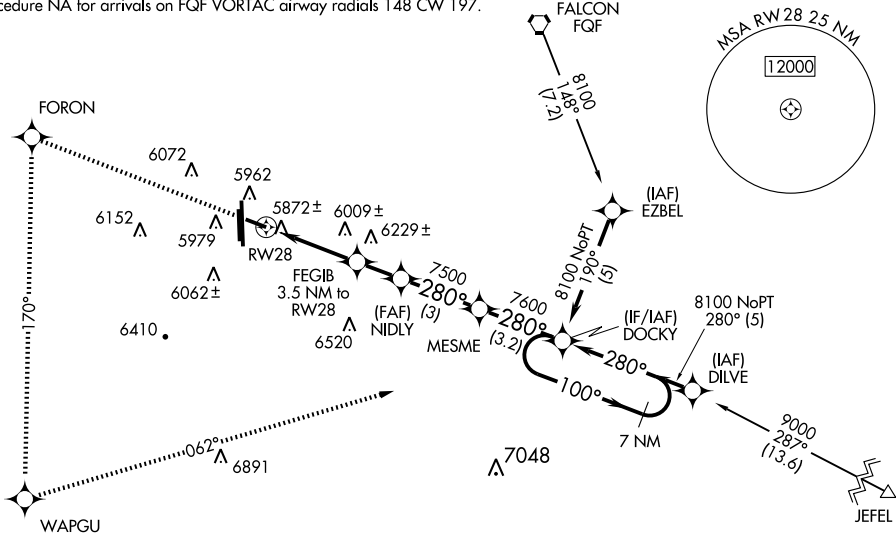
RNAV (GPS) RWY 28
DENVER/ CENTENNIAL (APA)

When local altimeter setting not received, use Denver Intl altimeter setting and increase all DA 108 feet and all MDA 120 feet; increase LPV all Cats visibility ¼ mile, increase LNAV/VNAV all Cats visibility ½ mile, LNAV Cats C/D visibility ¼ mile and circling Cat C visibility ½ mile, and Cat D visibility ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 37°C (98°F). VDP and Baro VNAV NA when using Denver Intl altimeter setting. Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct FORON and left turn via 170° track to WAPGU and left turn via 062° track to DOCKY and hold.

ATIS 120.3	DENVER APP CON 132.75 269.3	CENTENNIAL TOWER 118.9	GND CON 121.8	CLNC DEL 128.6
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Procedure NA for arrivals on FQF VORTAC airway radials 148 CW 197.



MIRL all Rwys
REIL Rwy 17R, 28, and 35L

	FORON	WAPGU	DOCKY	7 NM Holding Pattern
	↑	170° track	062° track	
*LNAV only				
		FEGIB 3.5 NM to RW28	NIDLY	MESME
		*1 NM to RW28		
		RW28		
		6940*	7500	
		1 NM	2.5 NM	1.7 NM
			3 NM	3.2 NM
CATEGORY	A	B	C	D
LPV DA	6104-1¼		291 (300-1¼)	
LNAV/VNAV DA	6152-1¼		339 (300-1¼)	
LNAV MDA	6260-1	447 (400-1)	6260-1¼ 447 (400-1½)	6260-1½ 447 (400-1½)
CIRCLING	6440-1	555 (600-1)	6440-1½ 555 (600-1½)	6560-2¼ 675 (700-2¼)

WAAS CH 93508 W35A	APP CRS 347°	Rwy Idg TDZE 5885 Apt Elev 5885
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RNAV (GPS) RWY 35R

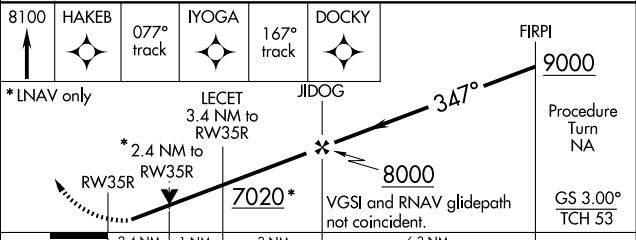
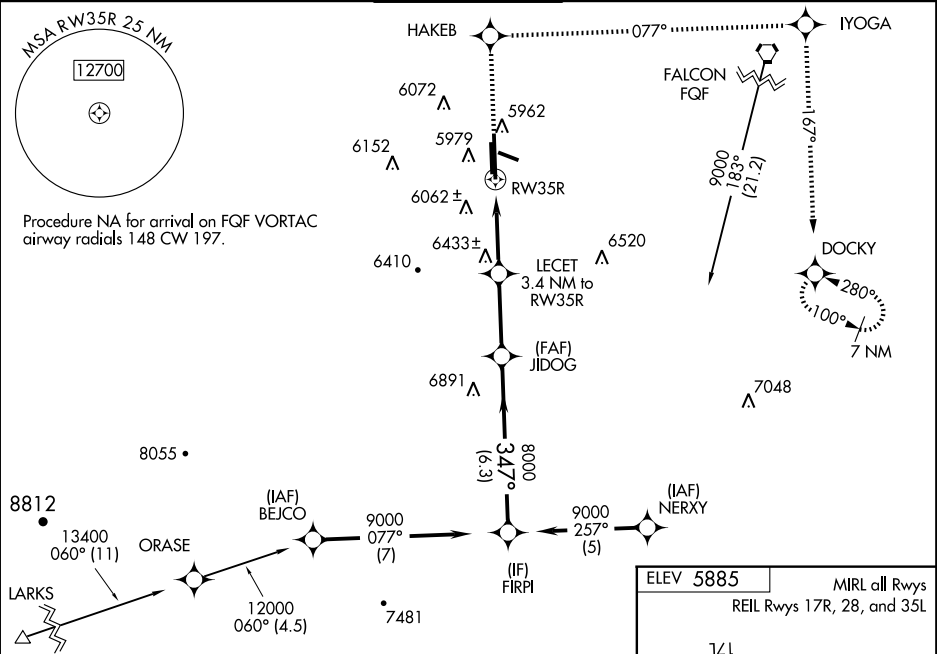
DENVER/ CENTENNIAL (APA)

⚠ When local altimeter setting not received, use Denver Intl altimeter setting and increase all DA 108 feet and all MDA 120 feet; increase LNAV Cat C/D visibility ¼ mile and circling Cats A/C/D visibility ¼ mile. For inoperative MALSR increase LPV all Cats visibility to 1¼ mile. For inoperative MALSR increase LNAV Cat A visibility to 1. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 37°C (98°F). Inoperative table does not apply to LPV and LNAV/VNAV. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Denver Intl altimeter setting. Circling to Rwy 10 NA at night. DME/DME RNP-0.3 NA.

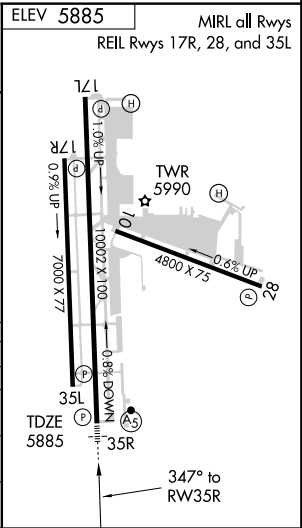
MALSR

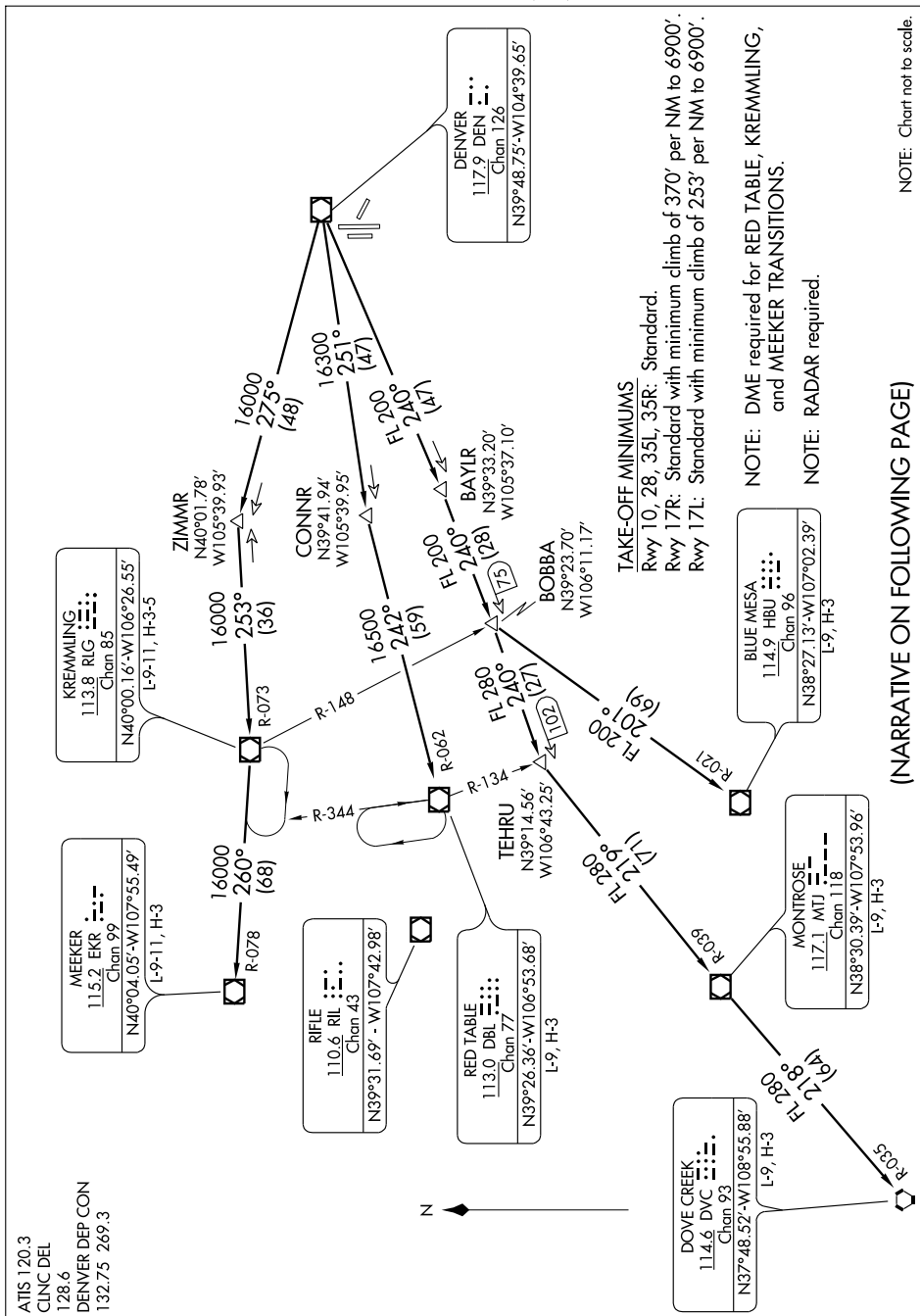
MISSED APPROACH:
Climb to 8100 direct
HAKEB and via 077°
track to IYOGA and via
167° track to DOCKY
and hold.

ATIS 120.3	DENVER APP CON 132.75 269.3	CENTENNIAL TOWER 118.9	GND CON 121.8	CLNC DEL 128.6
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CATEGORY	A	B	C	D
LPV DA	6140-¾		255 (300-¾)	
LNAV/VNAV DA	6925-4		1040 (1100-4)	
LNAV MDA	6700-¾	815 (900-¾)	6700-2 815 (900-2)	6700-2¼ 815 (900-2¼)
CIRCLING	6700-1 815 (900-1)	6700-1¼ 815 (900-1¼)	6700-2½ 815 (900-2½)	6700-2¾ 815 (900-2¾)





(NARRATIVE ON FOLLOWING PAGE)

SW-1. 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

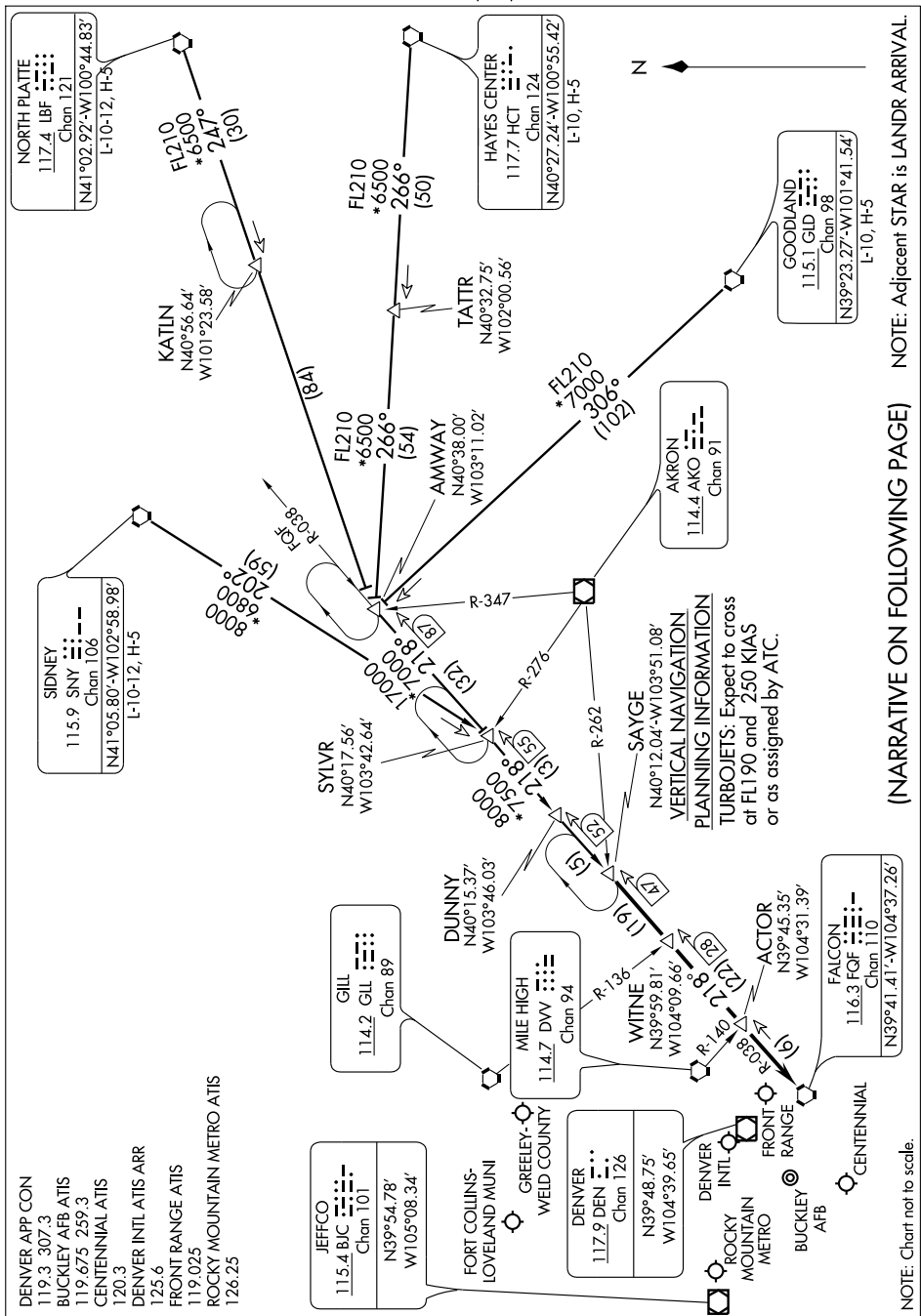
RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.

TAKE-OFF OBSTACLE NOTES

- RWY 10: Terrain beginning 238' from DER, 30' right of centerline, up to 5859' MSL.
Fences beginning 1211' from DER, 233' right of centerline, up to 8' AGL/5841' MSL.
Multiple bushes beginning 1378' from DER, 284' right of centerline, up to 6' AGL/5840' MSL.
Multiple roads with vehicles beginning 198' from DER, 404' left of centerline, up to 15' AGL/5835' MSL.
Terrain 1357' from DER, 253' left of centerline, 5829' MSL.
- RWY 28: Terrain beginning 89' from DER, from 513' left to 137' right of centerline, up to 5849' MSL.
Windsock 100' from DER, 183' left of centerline, 15' AGL/5832' MSL.
Multiple trees beginning 1640' from DER, 731' left of centerline, up to 100' AGL/5959' MSL.
- RWY 35L: Terrain beginning 54' from DER, 110' right of centerline, up to 5829' MSL.
- RWY 17R: Terrain 181' from DER, 496' right of centerline, 5887' MSL.
Fence 538' from DER, 196' right of centerline, 8' AGL/5889' MSL.
Multiple trees beginning 562' from DER, 61' right of centerline, up to 16' AGL/5976' MSL.
Multiple light poles beginning 2362' from DER, 256' right of centerline, up to 30' AGL/5942' MSL.
Vehicles on roads beginning 2812' from DER, on centerline, up to 17' AGL/5946' MSL.
Obstruction light on building 3282' from DER, 842' right of centerline, 90' AGL/6021' MSL.
- RWY 17L: Multiple trees beginning 2968' from DER, 761' right of centerline, 100' AGL/5976' MSL.

ST-9077 (FAA)

DENVER, COLORADO



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Adjacent STAR is LANDR ARRIVAL.

SW-1. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.



ARRIVAL DESCRIPTION

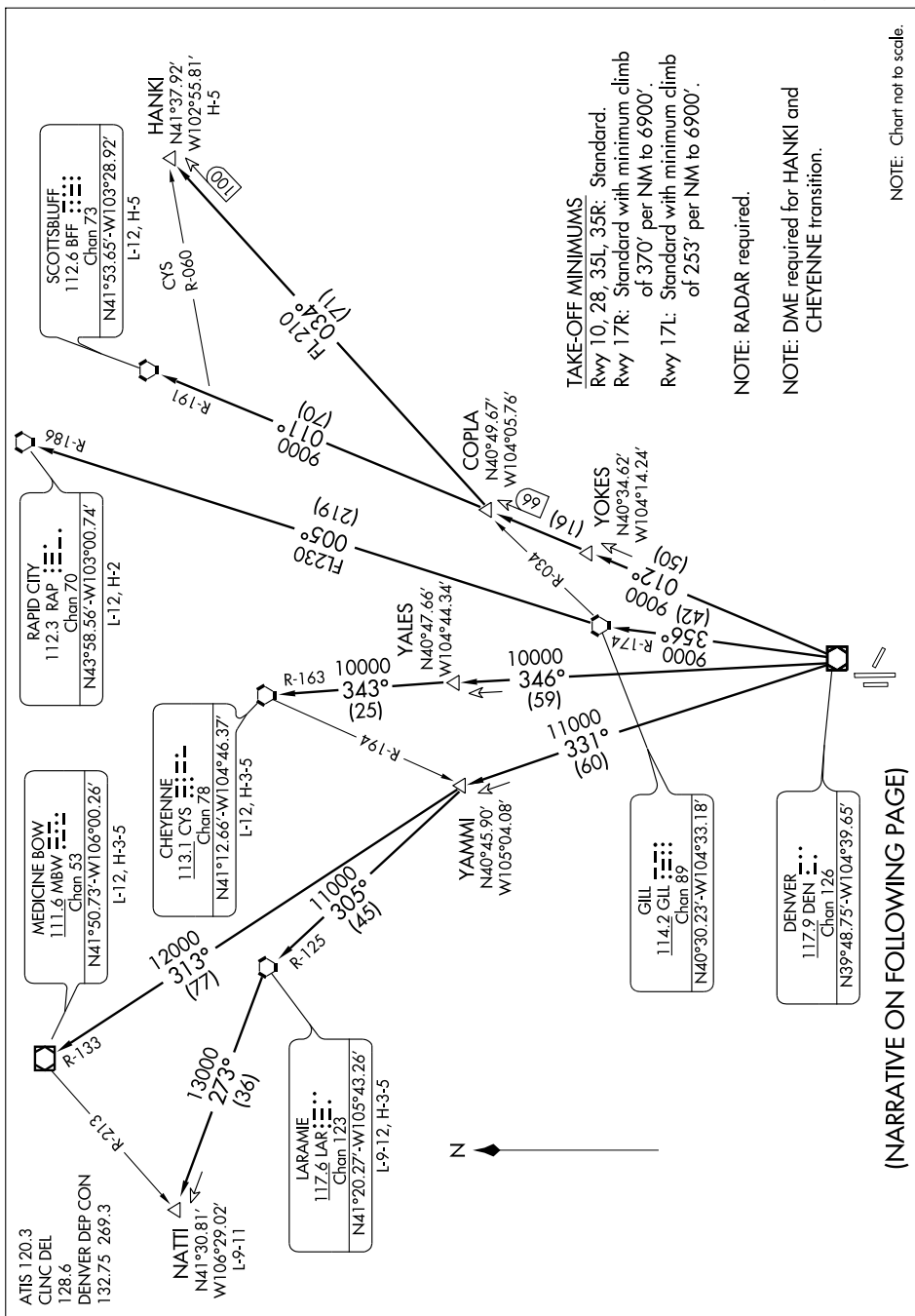
HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

YELLOWSTONE SIX DEPARTURE



(NARRATIVE ON FOLLOWING PAGE)

YELLOWSTONE SIX DEPARTURE

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLO6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLO6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLO6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLO6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

NATTI TRANSITION (YELLO6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

RAPID CITY TRANSITION (YELLO6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

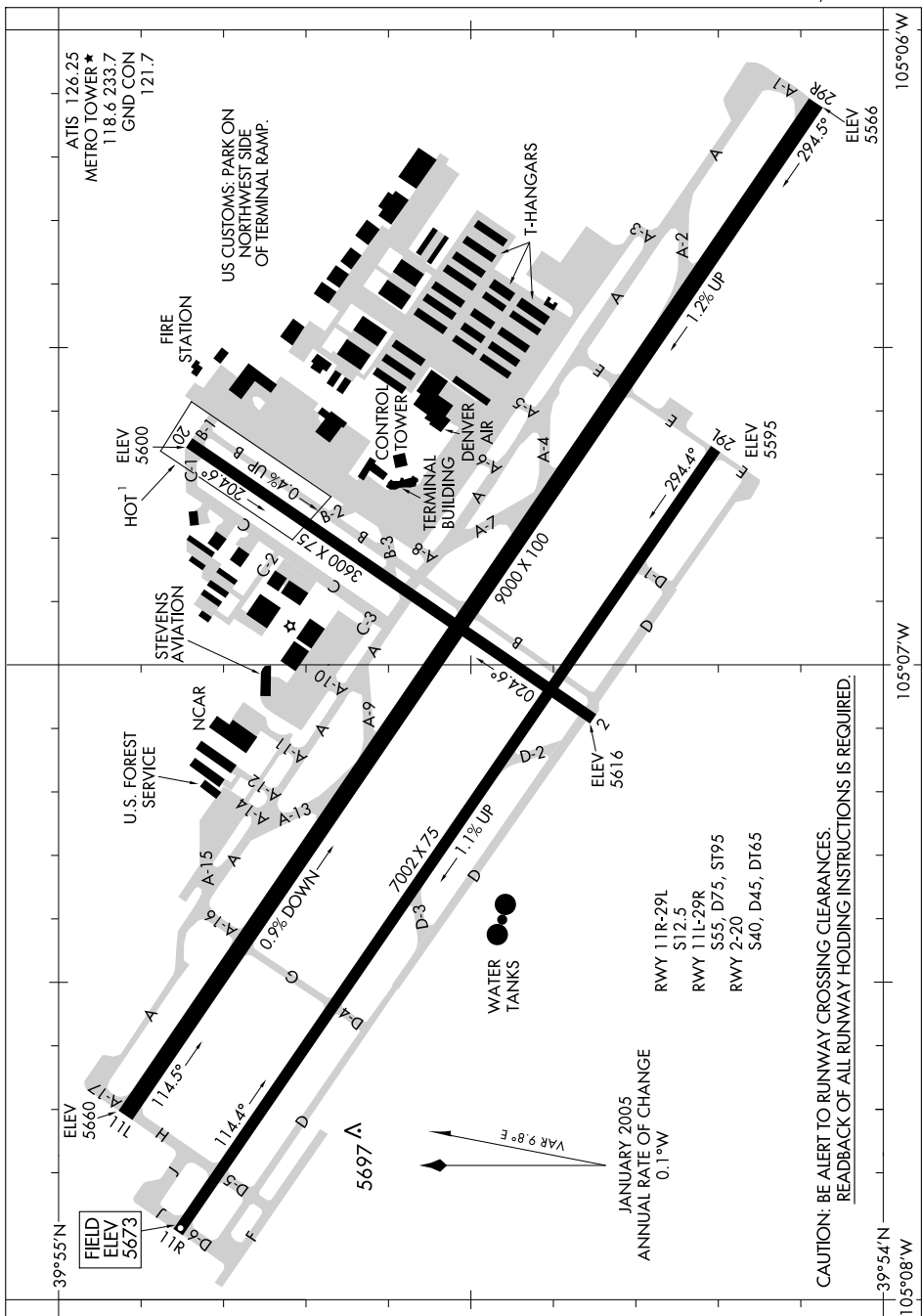
SCOTTSBLUFF TRANSITION (YELLO6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

TAKE-OFF OBSTACLE NOTES

- RWY 10: Terrain beginning 238' from DER, 30' right of centerline, up to 5859' MSL.
Fences beginning 1211' from DER, 233' right of centerline, up to 8' AGL/5841' MSL.
Multiple bushes beginning 1378' from DER, 284' right of centerline, up to 6' AGL/5840' MSL.
Multiple roads with vehicles beginning 198' from DER, 404' left of centerline, up to 15' AGL/5835' MSL.
Terrain 1357' from DER, 253' left of centerline, 5829' MSL.
- RWY 28: Terrain beginning 89' from DER, from 513' left to 137' right of centerline, up to 5849' MSL.
Windsock 100' from DER, 183' left of centerline, 15' AGL/5832' MSL.
Multiple trees beginning 1640' from DER, 731' left of centerline, up to 100' AGL/5959' MSL.
- RWY 35L: Terrain beginning 54' from DER, 110' right of centerline, up to 5829' MSL.
- RWY 17R: Terrain 181' from DER, 496' right of centerline, 5887' MSL.
Fence 538' from DER, 196' right of centerline, 8' AGL/5889' MSL.
Multiple trees beginning 562' from DER, 61' right of centerline, up to 16' AGL/5976' MSL.
Multiple light poles beginning 2362' from DER, 256' right of centerline, up to 30' AGL/5942' MSL.
Vehicles on roads beginning 2812' from DER, on centerline, up to 17' AGL/5946' MSL.
Obstruction light on building 3282' from DER, 842' right of centerline, 90' AGL/6021' MSL.
- RWY 17L: Multiple trees beginning 2968' from DER, 761' right of centerline, 100' AGL/5976' MSL.

AIRPORT DIAGRAM

DENVER/ROCKY MOUNTAIN METROPOLITAN (BJC)
 AL-5612 (FAA)
 DENVER, COLORADO



SW-1. 14 JAN 2010 to 11 FEB 2010

DENVER, COLORADO



NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

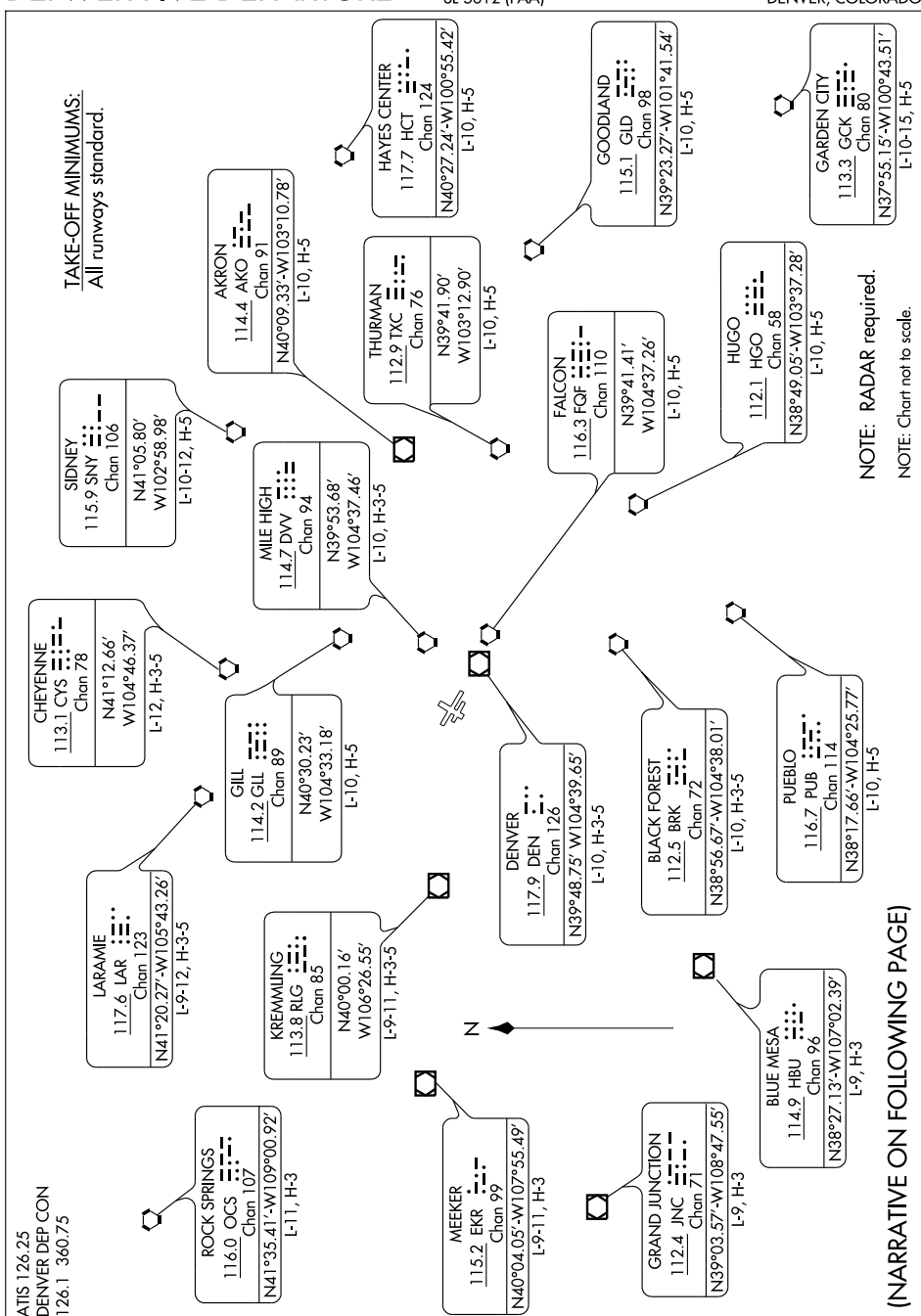
GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER FIVE DEPARTURE

DENVER/ ROCKY MOUNTAIN METROPOLITAN (BJC)
SL-5612 (FAA) DENVER, COLORADO

DENVER FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

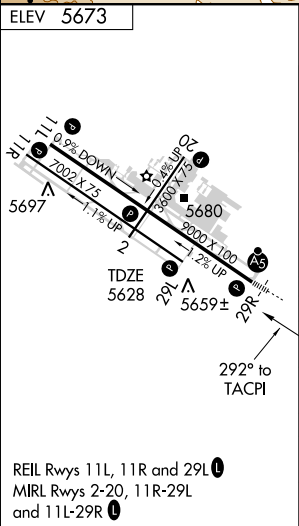
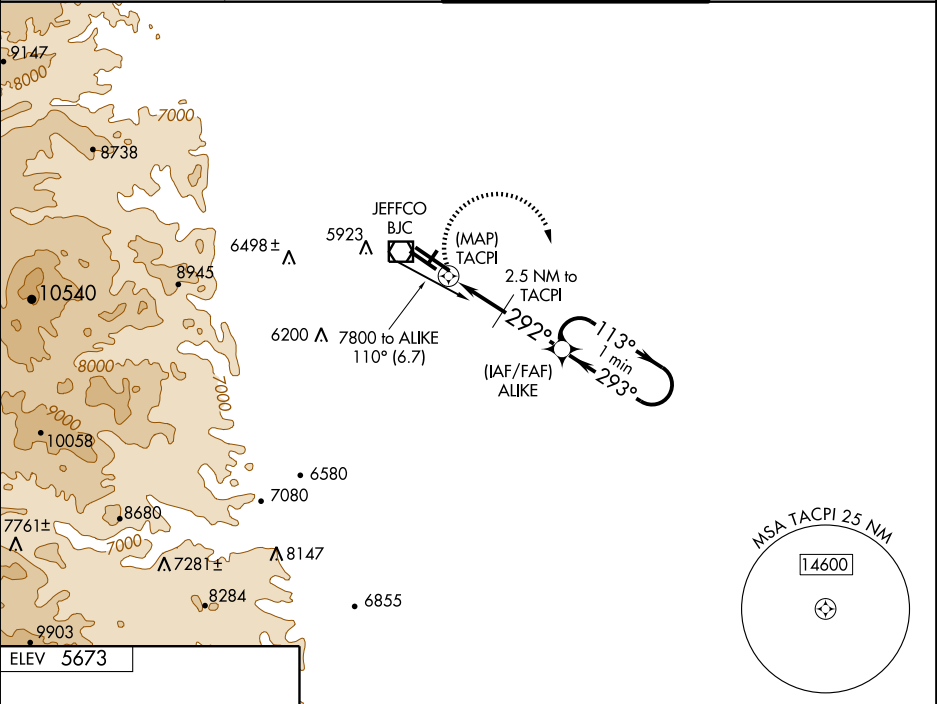
GPS RWY 29L

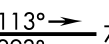
APP CRS	Rwy Idg	7002
292°	TDZE	5628
	Apt Elev	5673

DENVER/ROCKY MOUNTAIN METROPOLITAN (BJC)

 When control tower closed, use Denver Intl altimeter setting.	MISSED APPROACH: Climbing right turn to 7000 direct ALIKE WP and hold.
 DME/DME RNP-0.3 NA	

ATIS 126.25	DENVER APP CON 126.1 360.75	METRO TOWER ★ 118.6 (CTAF) 233.7	GND CON 121.7
----------------	--------------------------------	-------------------------------------	------------------



	7000	ALIKE	ALIKE	One Minute Holding Pattern
				
		2.5 NM to TACPI	2.5 NM to TACPI	113° → 7000 ← 293°
		TACPI	6300	
	0.5	2.5 NM	2.3 NM	
CATEGORY	A	B	C	D
S-29L	6040-1	412 (400-1)	6040-1¼	412 (400-1¼)
CIRCLING	6180-1	507 (600-1)	6240-1½ 567 (600-1½)	6240-2 567 (600-2)
DENVER INTL ALTIMETER SETTING MINIMUMS				
S-29L	6120-1	492 (500-1)	6120-1¼ 492 (500-1¼)	6120-1½ 492 (500-1½)
CIRCLING	6260-1	587 (600-1)	6320-1¾ 647 (700-1¾)	6320-2 647 (700-2)

GPS RWY 29R

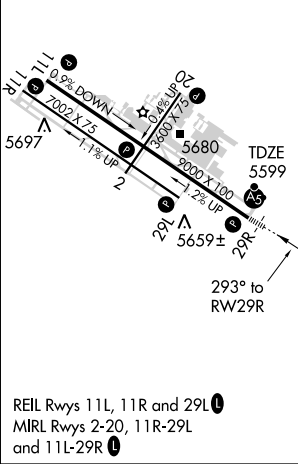
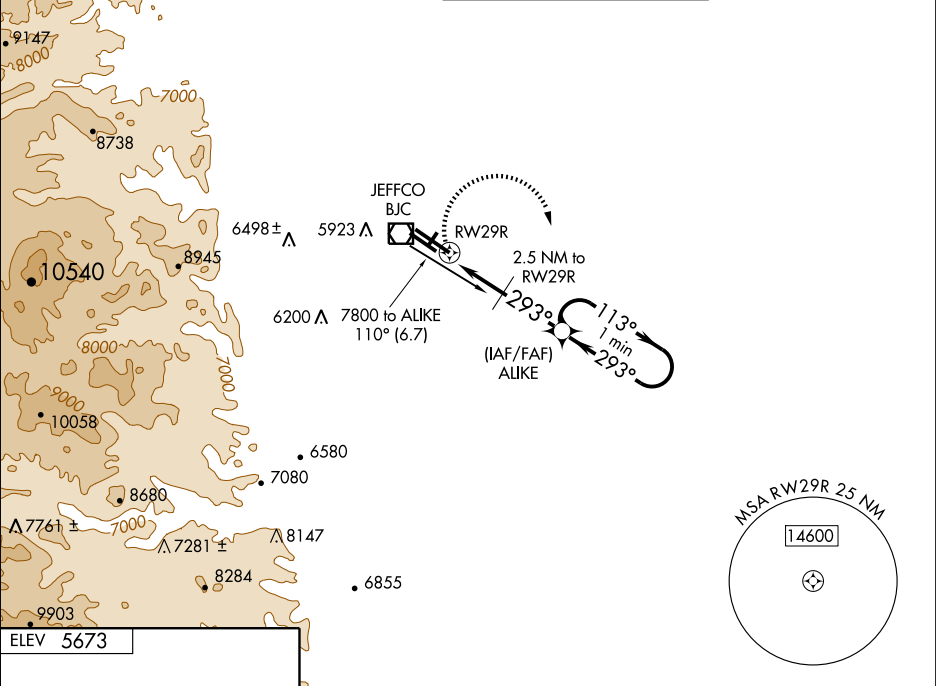
DENVER/ROCKY MOUNTAIN METROPOLITAN (BJC)

APP CRS	Rwy Idg	9000
293°	TDZE	5599
	Apt Elev	5673

When control tower closed, use Denver Intl altimeter setting.
For inoperative MALS, increase S-29R Cat. D visibility to 1¼ mile.
Inoperative table does not apply to S-29R Cat. D.
DME/DME RNP -0.3 NA.

MALS
MISSED APPROACH: Climbing right turn to 7000 direct ALIKE WP and hold.

ATIS 126.25	DENVER APP CON 126.1 360.75	METRO TOWER★ 118.6 (CTAF) 233.7	GND CON 121.7
----------------	--------------------------------	------------------------------------	------------------



	7000	ALIKE	ALIKE	One Minute Holding Pattern
			2.5 NM to RWY 29R	113° → 7000 ← 293°
			2.5 NM	2.4 NM
CATEGORY	A	B	C	D
S-29R	6000-½ 401 (400-½)		6000-¾ 401 (400-¾)	6000-1 401 (400-1)
CIRCLING	6180-1 507 (600-1)		6240-1½ 567 (600-1½)	6240-2 567 (600-2)
DENVER INTL ALTIMETER SETTING MINIMUMS				
S-29R	6100-½ 501 (500-½)		6100-1 501 (500-1)	
CIRCLING	6260-1 587 (600-1)		6320-1¾ 647 (700-1¾)	6320-2 647 (700-2)

LOC I-BJC	APP CRS	Rwy 29R Idg	Rwy 29L Idg
111.7	293°	9000	7002
		5595	5625
		5670	5670
		Apt Elev	Apt Elev

DENVER/
ROCKY MOUNTAIN METROPOLITAN (BJC)

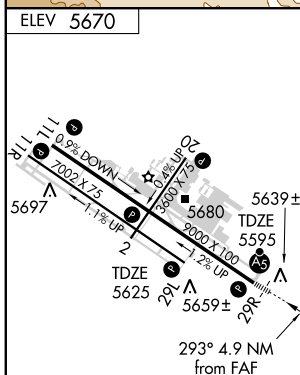
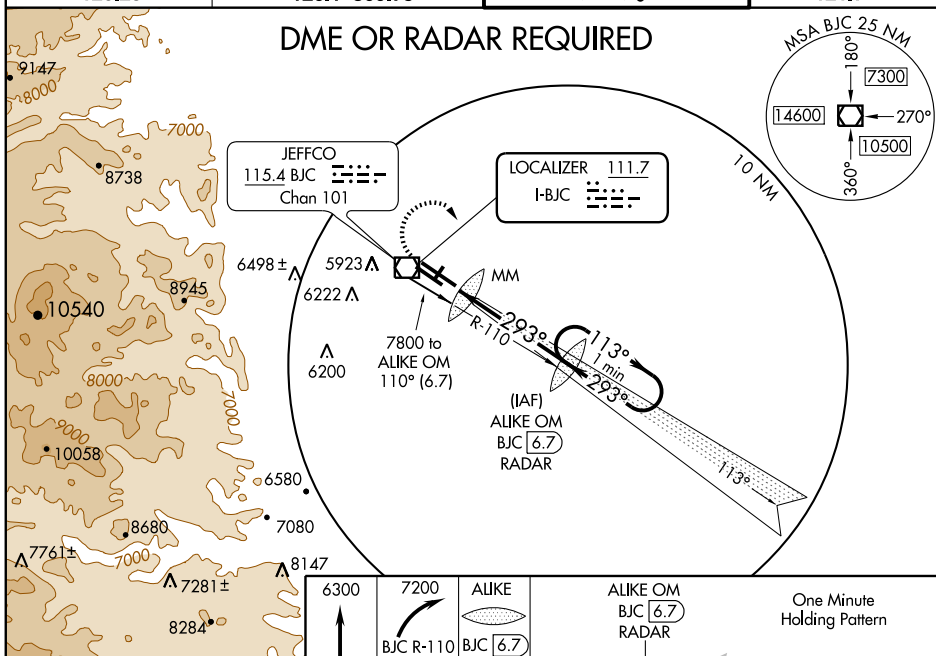
ILS or LOC RWY 29R

⚠ When control tower closed use Denver Intl altimeter setting.
⚠ For inoperative MALS, increase S-LOC 29R Cat. D visibility
 ¼ mile; and increase Denver Intl altimeter setting S-ILS 29R
 Cats. A, B, C, D visibility ½ mile.



MISSED APPROACH: Climb to 6300 then climbing
 right turn to 7200 via BJC VOR/DME R-110 to
 Alike OM/BJC 6.7 DME/RADAR and hold.

ATIS	DENVER APP CON	METRO TOWER ★	GND CON
126.25	126.1 360.75	118.6 (CTAF) 233.7	121.7



Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

CATEGORY	A		B		C		D	
S-ILS 29R	5795-½ 200 (200-½)							
S-LOC 29R	5900-½ 305 (300-½)						5900-¾ 305 (300-¾)	
SIDESTEP 29L	5920-1 295 (300-1)				5920-1½ 295 (300-1½)		5920-2 295 (300-2)	
CIRCLING	6180-1 510 (600-1)				6240-1½ 570 (600-1½)		6240-2 570 (600-2)	
DENVER INTL ALTIMETER SETTING MINIMUMS								
S-ILS 29R	5877-½ 282 (300-½)							
S-LOC 29R	5980-½ 385 (400-½)						5980-¾ 385 (400-¾)	
SIDESTEP 29L	6000-1 375 (400-1)				6000-1½ 375 (400-1½)		6000-2 375 (400-2)	
CIRCLING	6260-1 590 (600-1)				6320-1¾ 650 (700-1¾)		6320-2 650 (700-2)	



NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER APP CON
120.35 379.3
BUCKLEY AFB ATIS
119.675 259.3
CENTENNIAL ATIS
120.3
DENVER INTL ATIS ARR
125.6
FRONT RANGE ATIS
119.025
ROCKY MOUNTAIN METRO ATIS
126.25

GILL
114.2 GLL ::::
Chan 89
N40°30.23'-W104°33.18'

FORT COLLINS-
LOVELAND MUNI 

 GREELEY-
WELD COUNTY

DENVER
117.9 DEN 
Chan 126
N39°48.75'-W104°

JEFFCO
115.4 BJC
Chap 101

HUUGE
N39°34.72'
W104°47.91'

PAYDD
N39°24.10'
W105°04.73'

FALCON
116.3 FQF :::: -
Chan 110
N39°41.41'
W104°37.26'

LARKS
N39°15.44'-W105°18.31'
VERTICAL NAVIGATION
PLANNING INFORMATION

TURBOJETS: Expect to cross at 17000 and 250 KIAS or as assigned by ATC.

RED TABLE
113.0 DBL 
Chan 77

BLUE MESA
114.9 HBU 
Chan 96

BLACK FOREST
12.5 BRK 
Chn 72

MAA FL450
— FL280
1650

HICKY
38°46.28'
106°03.38'

PAPPA
N38°29.61'
W106°28.70'

LOPEC
N38°05.5
W106°51.5
H-3

RATTLESNAKE
115.3 RSK 
Chan 100
6°44.90'-W108°05.93'
L-8, H-4

ALAMOSA
113.9 ALS 
Chan 86
N37°20.95'-W105°48.93'
I-8-9, H-4-5

PUEBLO
116.7 PUB 
Chan 114
N38°17.66'-W104°25.77'
L-10, H-5

MAA FL450
FL200
*15400
— 262° —
(74)

KANON
N38°23.75'
W105°59.51'

(74)

NOTE: Adjacent STAR is POWDR ARRIVAL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-1 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

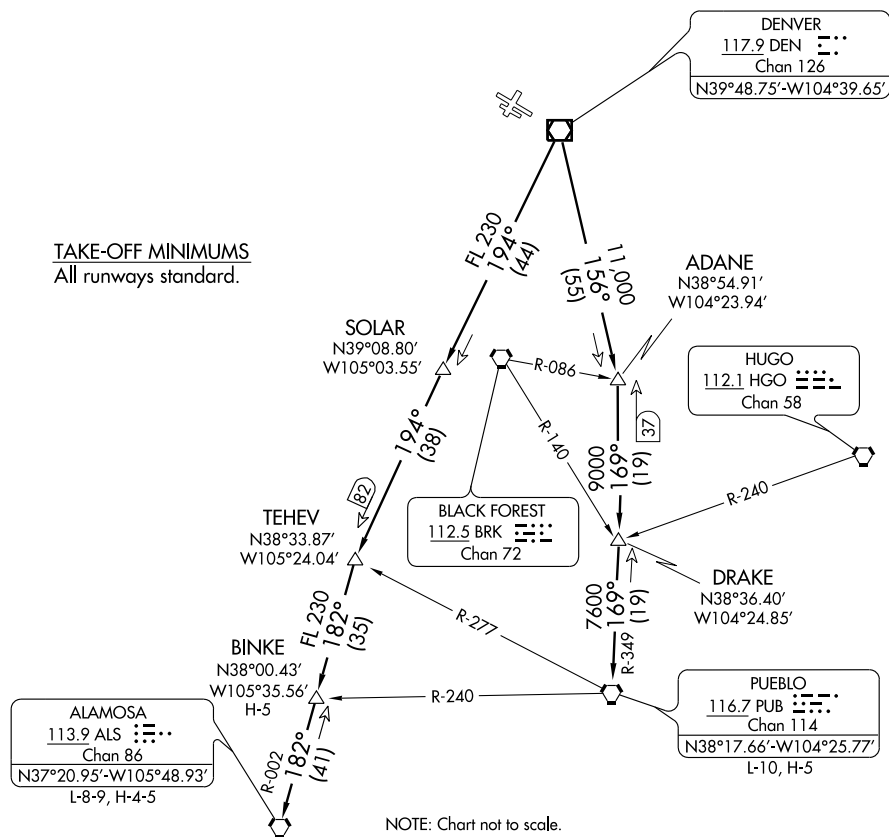
LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

PIKES FOUR DEPARTURE

DENVER/ROCKY MOUNTAIN METROPOLITAN (BJC)
SL-5612 (FAA) DENVER, COLORADOATIS 126.25
DENVER DEP CON
126.1 360.75TAKE-OFF MINIMUMS
All runways standard.

DEPARTURE ROUTE DESCRIPTION

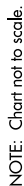
Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.





DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.



ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

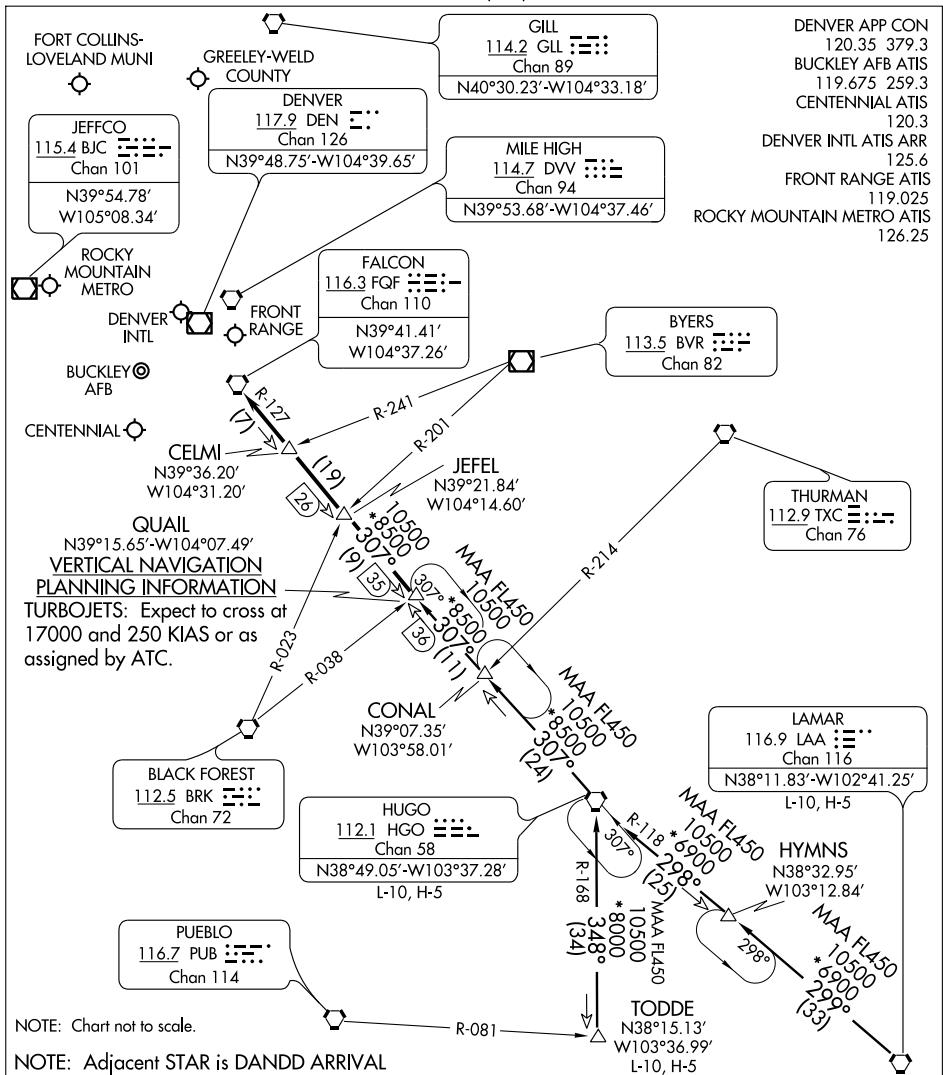
RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.

QUAIL SIX ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to QUAIL INT. Thence....

TODDE TRANSITION (TODDE.QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
 Expect radar vectors to the final approach course at or before FQF VORTAC.

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for ROCK SPRINGS TRANSITION for Changeover Point.

NOTE: Adjacent STAR is TOMSN ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

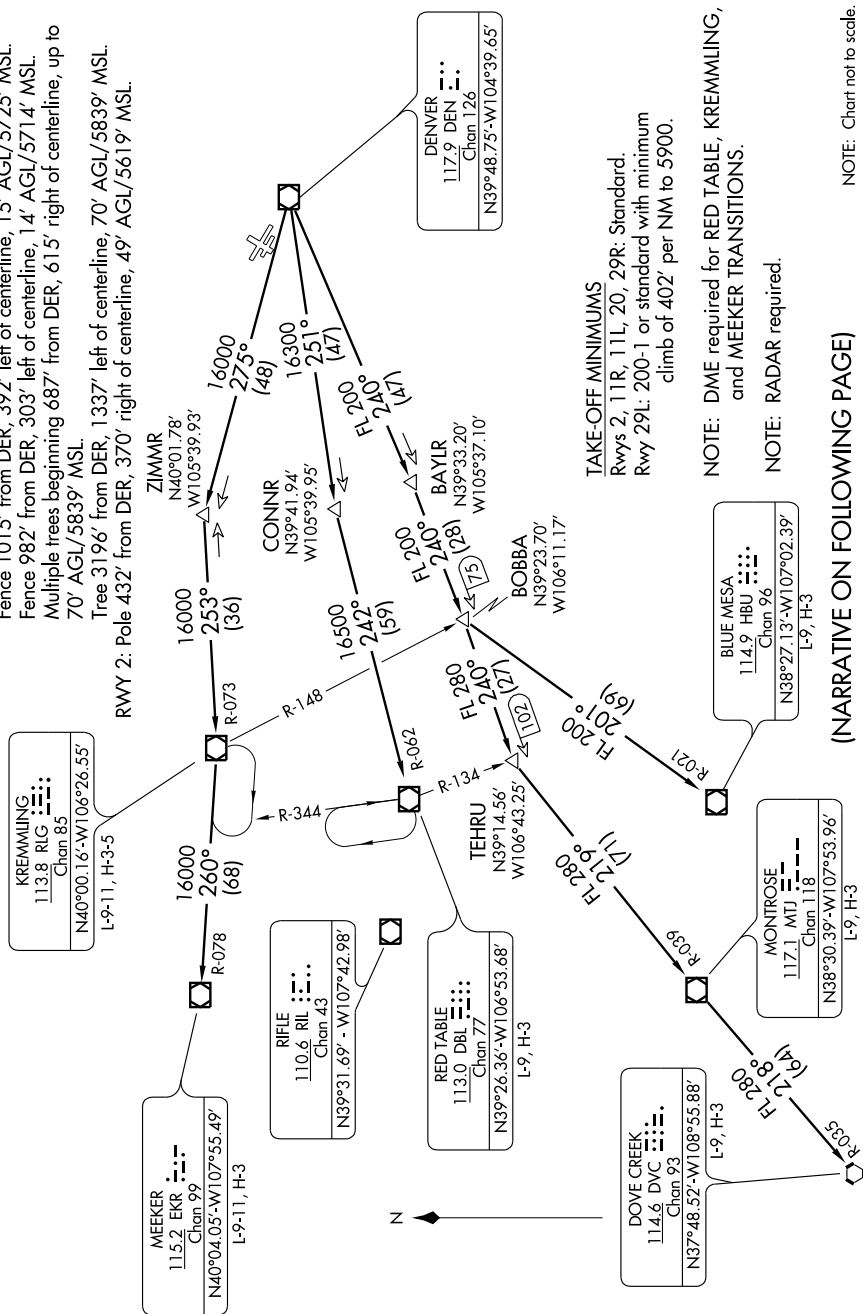
MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

TAKE-OFF OBSTACLE NOTES

RWY 29L: Terrain beginning 45' from DER, 292' left of centerline, up to 5839' MSL.
 Fence 1015' from DER, 392' left of centerline, 15' AGL/5725' MSL.
 Fence 982' from DER, 303' left of centerline, 14' AGL/5714' MSL.
 Multiple trees beginning 687' from DER, 615' right of centerline, up to 70' AGL/5839' MSL.
 Tree 3196' from DER, 1337' left of centerline, 70' AGL/5839' MSL.
 RWY 2: Pole 432' from DER, 370' right of centerline, 49' AGL/5619' MSL.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

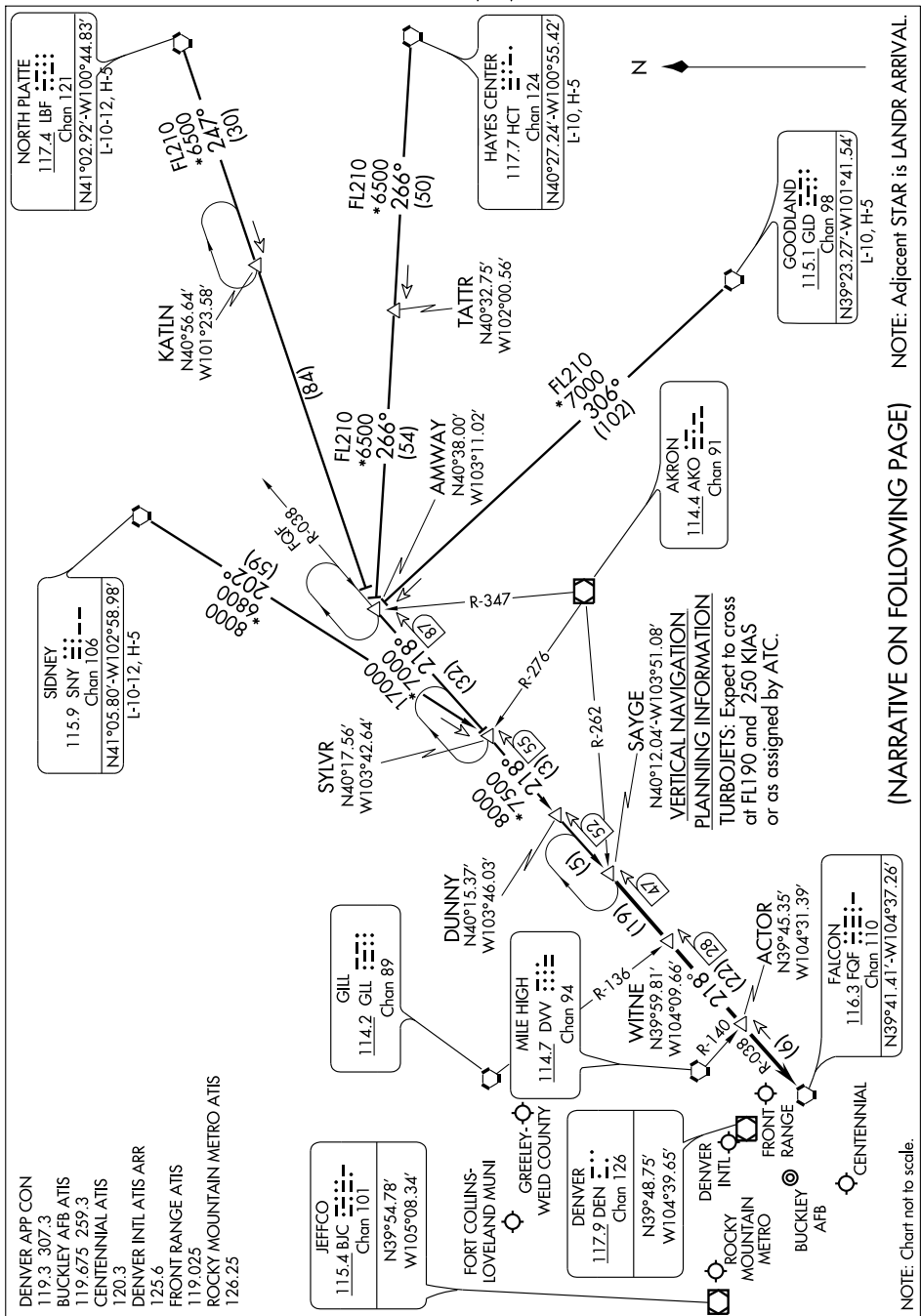
MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.

ST-9077 (FAA)

DENVER, COLORADO



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Adjacent STAR is LANDR ARRIVAL.

SW-1. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.



ARRIVAL DESCRIPTION

HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

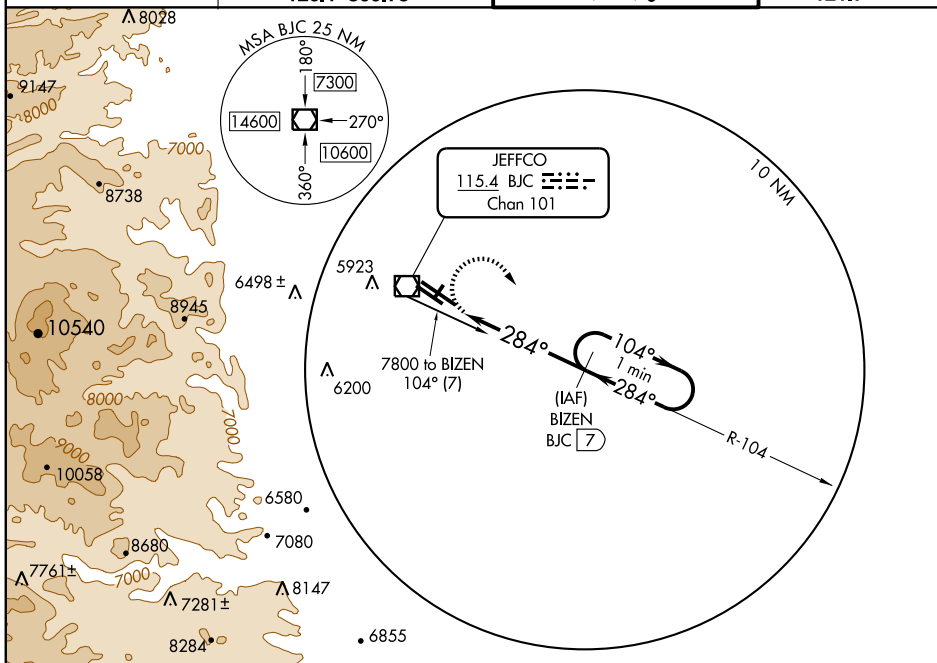
....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

VOR/DME RWY 29L/R

DENVER/
ROCKY MOUNTAIN METROPOLITAN (B.J.C)

MISSED APPROACH: Climbing right turn to 7000 via BJC R-104 to BIZEN/7 DME and hold

GND CON
121.7

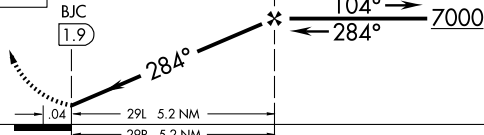
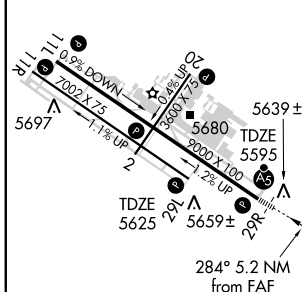


7000
BJC
R-104

BIZEN
BJC 7

BIZEN
BJC 7

One Minute Holding Pattern



CATEGORY	A	B	C	D
S-29R	5900-½ 305 (300-½)			5900-1 305 (300-1)
S-29L	5920-1 295 (300-1)			
CIRCLING	6180-1 510 (600-1)		6240-1½ 570 (600-1½)	6240-2 570 (600-2)

DENVER INTL ALTIMETER SETTING MINIMUMS

S-29R	5980-½ 385 (400-½)	5980-1 385 (400-1)
S-29L	6000-1 375 (400-1)	6000-1¼ 375 (400-1¼)
CIRCLING	6260-1 590 (600-1)	6320-1¾ 650 (700-1¾) 6320-2 650 (700-2)

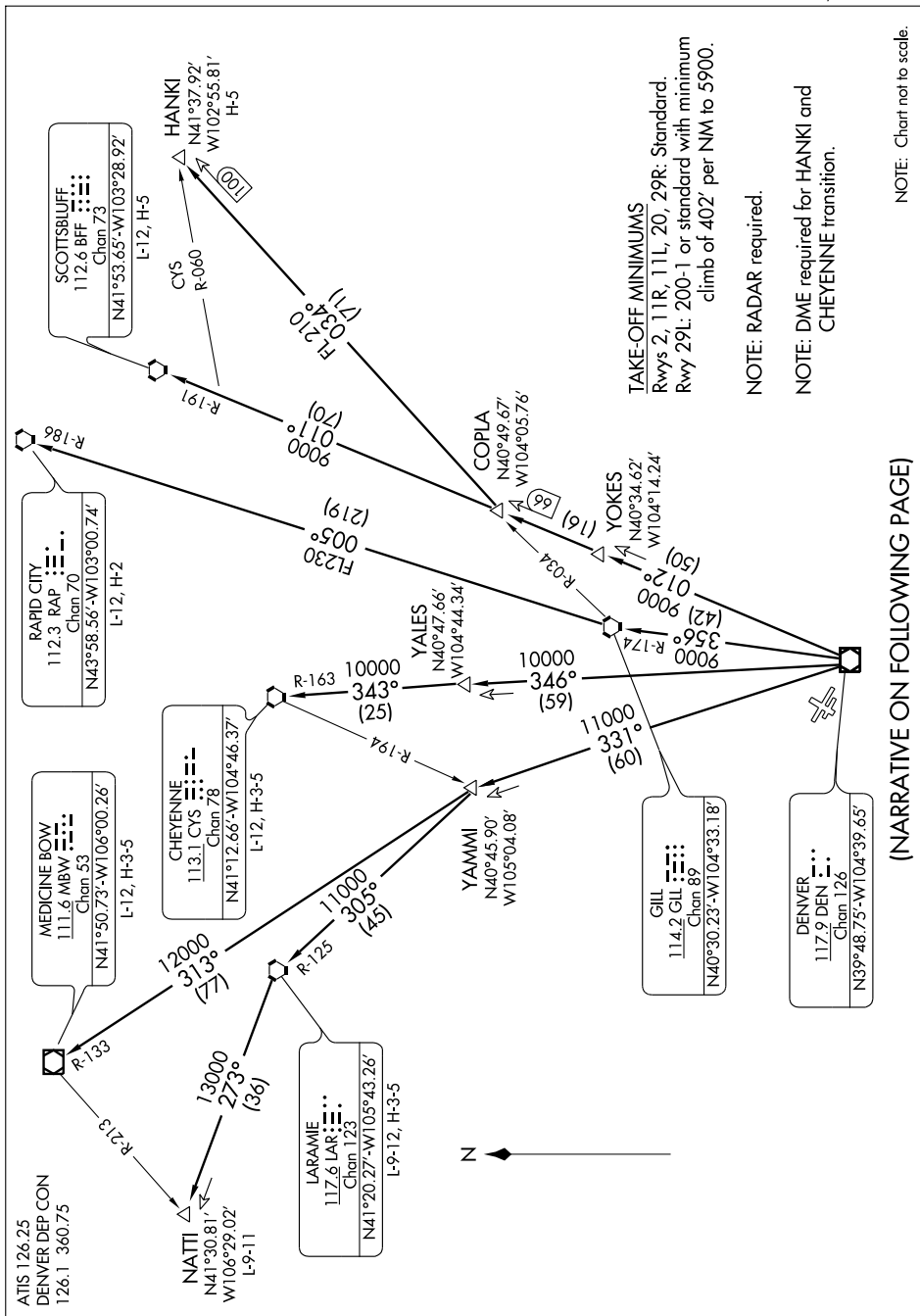
MIRL Rwy 2-20, 11R-29L and 11L-29R L

SW-1: 14 JAN 2010 to 11 FEB 2010

YELLOWSTONE SIX DEPARTURE

SL-5612 (FAA)

DENVER, COLORADO



YELLOWSTONE SIX DEPARTURE

SL-5612 (FAA)

DENVER, COLORADO



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLO6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLO6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLO6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLO6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

NATTI TRANSITION (YELLO6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

RAPID CITY TRANSITION (YELLO6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

SCOTTSBLUFF TRANSITION (YELLO6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

TAKE-OFF OBSTACLE NOTES

RWY 29L: Terrain beginning 45' from DER, 292' left of centerline, up to 5839' MSL.

Fence 1015' from DER, 392' left of centerline, 15' AGL/5725' MSL.

Fence 982' from DER, 303' left of centerline, 14' AGL/5714' MSL.

Multiple trees beginning 687' from DER, 615' right of centerline, up to 70' AGL/5839' MSL.

Tree 3196' from DER, 1337' left of centerline, 70' AGL/5839' MSL.

RWY 2: Pole 432' from DER, 370' right of centerline, 49' AGL/5619' MSL.

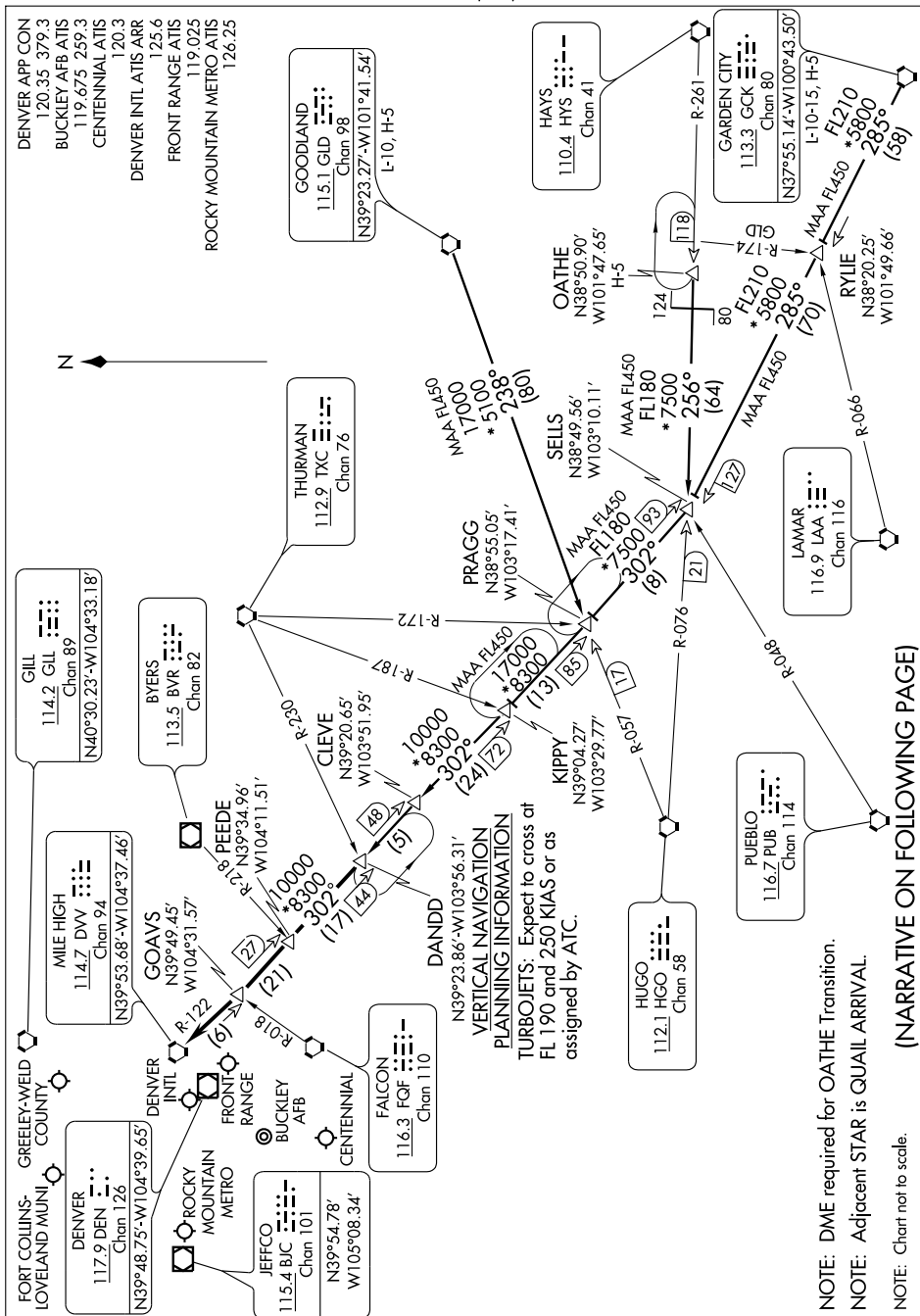
09351

DENVER INTL (DEN)
DENVER, COLORADO

DANDD FIVE ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

SW-1. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

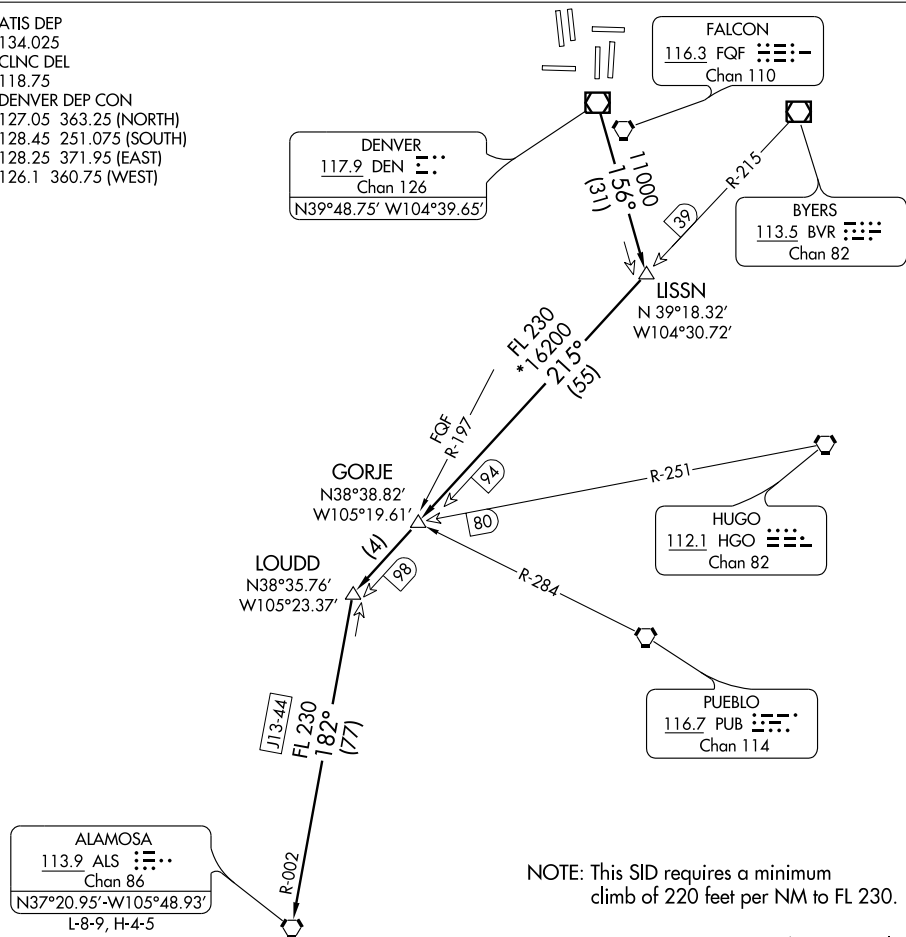
GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

ATIS DEP
 134.025
 CLNC DEL
 118.75
 DENVER DEP CON
 127.05 363.25 (NORTH)
 128.45 251.075 (SOUTH)
 128.25 371.95 (EAST)
 126.1 360.75 (WEST)



DEPARTURE ROUTE DESCRIPTION

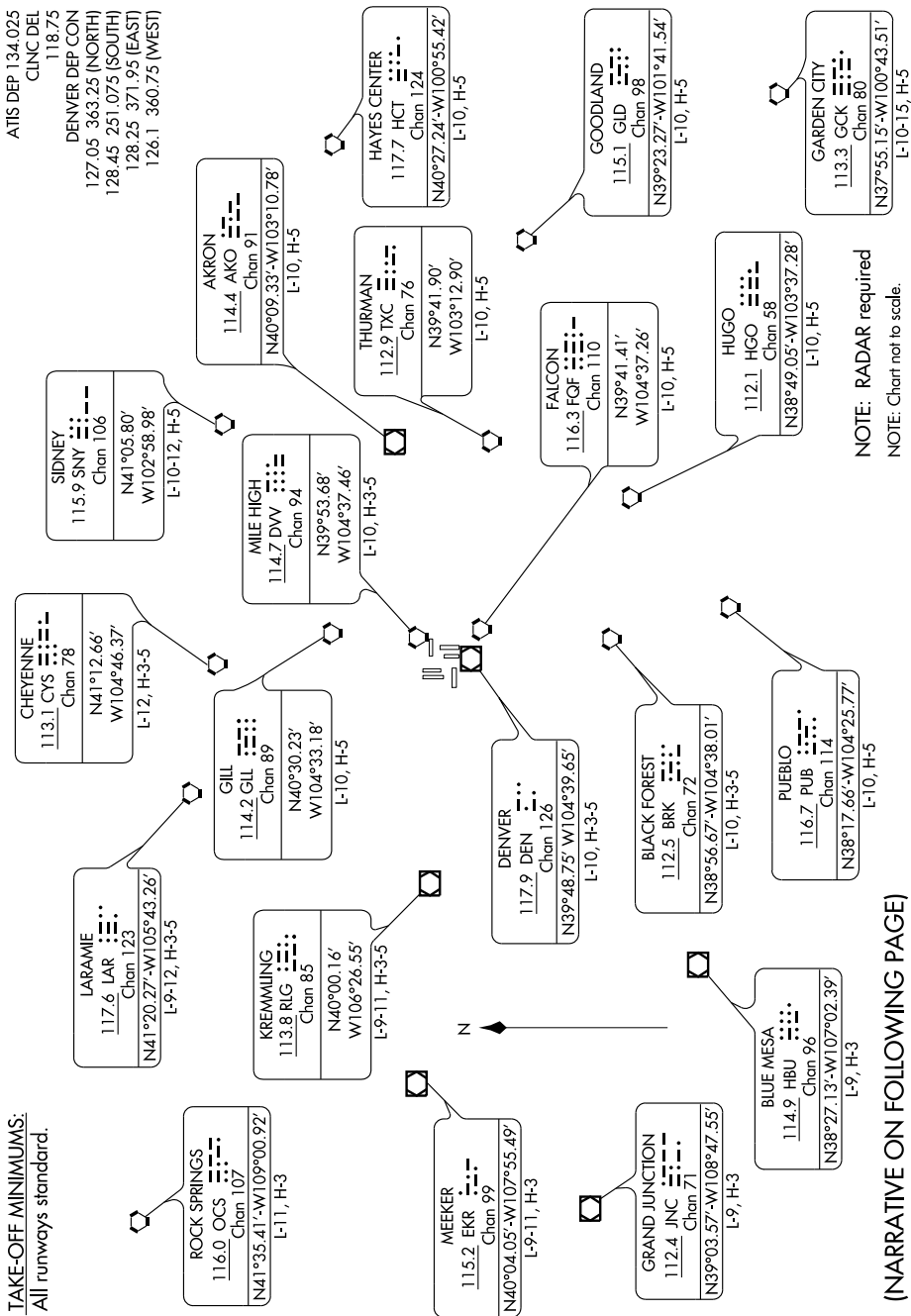
Fly assigned heading for radar vectors to assigned route. Maintain 10000 feet or **ATC assigned lower altitude**. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within 1 minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned route. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

ALAMOSA TRANSITION (DCBEL2.ALS): From over DEN VOR/DME via DEN R-156 to LISSN INT, then via BVR R-215 and ALS R-002 to ALS VORTAC.

DENVER FIVE DEPARTURE

SL-9077 (FAA)

DENVER INTL (DEN)
DENVER, COLORADO

(NARRATIVE ON FOLLOWING PAGE)

SW-1. 14 JAN 2010 to 11 FEB 2010



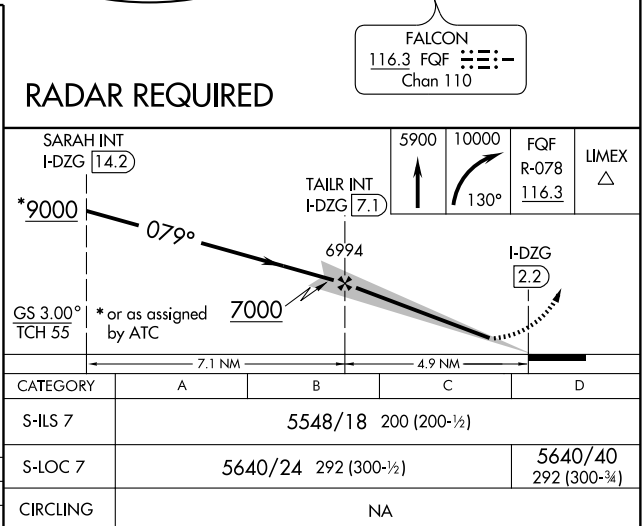
DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for radar vectors to assigned transition. Maintain 10000 feet or **ATC assigned lower altitude**. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

ILS or LOC RWY 7
DENVER INTL (DEN)

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 132.35 273.55	GND CON 127.5 379.175	CLNC DEL 118.75
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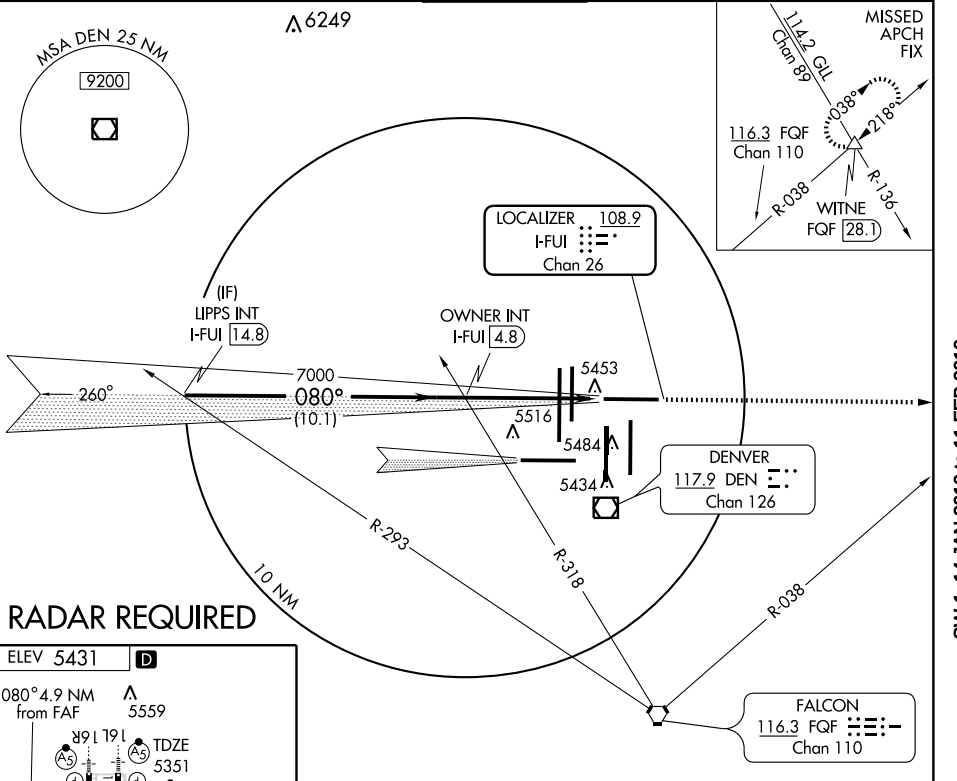
SW-1. 14 JAN 2010 to 11 FEB 2010

Simultaneous approaches authorized with Rwy 7.
S-LOC minima not authorized during simultaneous operations.
** RVR 1800 authorized with the use of FD or AP or HUD to DA.

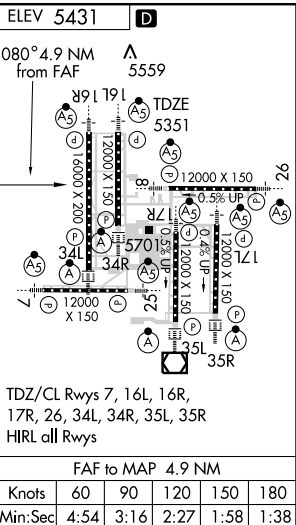
MALSR

MISSED APPROACH: Climb to 10000 via 080° heading and FGF VORTAC R-038 to WITNE INT/ FGF 28.1 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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RADAR REQUIRED



LIPPS INT I-FUI <u>14.8</u>		# 7000 when assigned by ATC * or as assigned by ATC.	10000 ↑ 080°	FGF R-038 <u>116.3</u>	WITNE △
* <u>10000</u>		OWNER INT I-FUI <u>4.8</u>	7000		
GS 3.00° TCH 52		10.1 NM		4.9 NM	
CATEGORY	A	B	C	D	
S-ILS 8	** 5551/24 200 (200-½)				
S-LOC 8	5700/24 349 (300-½)			5700/40 349 (300-¾)	
CIRCLING	NA				

SW-1. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-DQQ <u>111.9</u> Chan 56	APP CRS 170°	Rwy Idg 16000 TDZE 5323 Apt Elev 5431
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ILS or LOC RWY 16R

DENVER INTL (DEN)

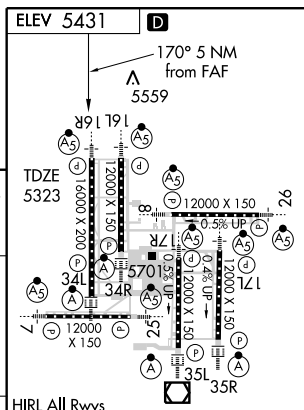
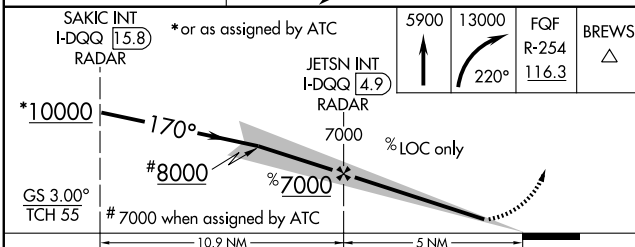
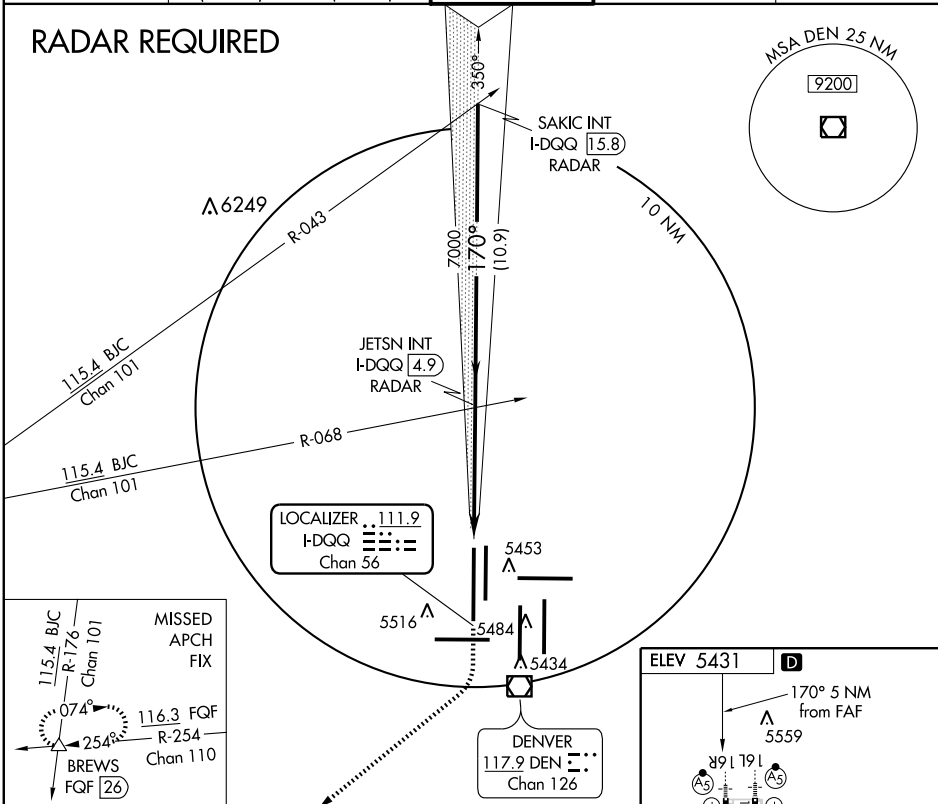
Simultaneous approaches authorized with Rwy 17L and 17R.
S-LOC minima not authorized during simultaneous operations.



MISSED APPROACH: Climb to 5900, then climbing right turn to 13000 via 220° heading and FQF VORTAC R-254 to BREWS INT/FQF 26 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLINC DEL 118.75
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RADAR REQUIRED



CATEGORY	A	B	C	D
S-ILS 16R	5523/18 200 (100-½)			
S-LOC 16R	5680/24 357 (300-½)			5680/40 357 (300-¾)
CIRCLING	NA			

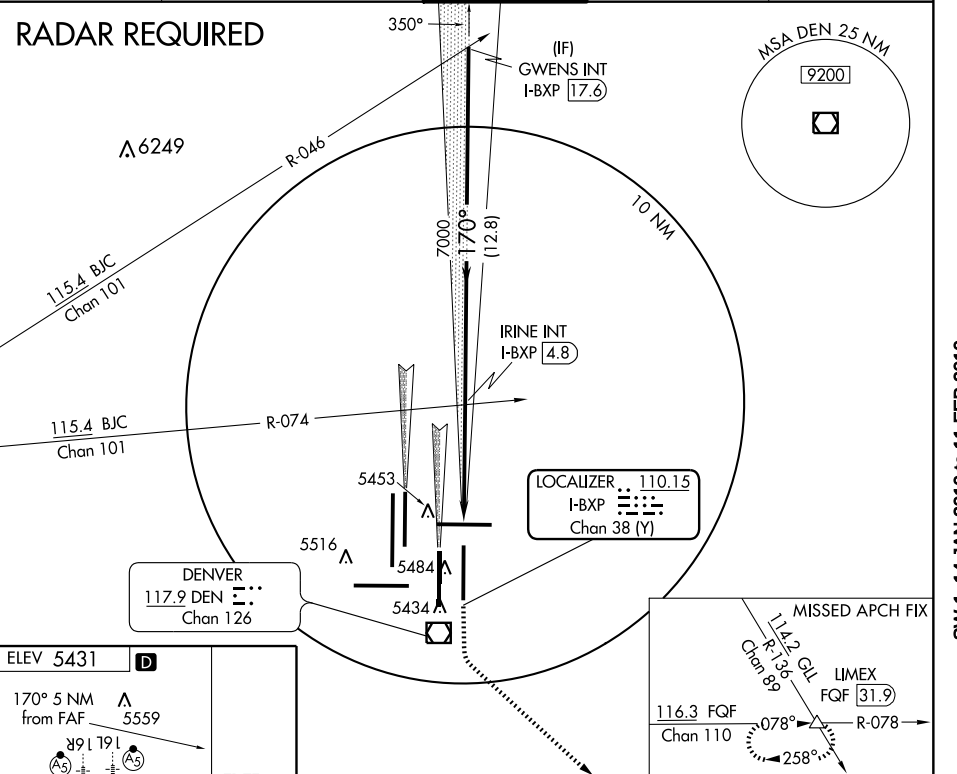
FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

Simultaneous approaches authorized with Rwy 16L and 17R.
S-LOC minima not authorized during simultaneous operations.
** RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 5900, then climbing left turn to 10000 via 120° heading and FQF VORTAC R-078 to LIMEX INT/FQF 31.9 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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TDZ/CL Rwy 7, 16L, 16R, 17R, 26, 34L, 34R, 35L, 35R HIRL all Rwys	FAF to MAP 5 NM			
	Knots	60	90	120
	Min:Sec	5:00	3:20	2:30
CATEGORY A B C D				
S-ILS 17L ** 5535/24 200 (200-½)				
S-LOC 17L 5700/24 365 (300-½) 5700/40 365 (300-¾)				
CIRCLING NA				

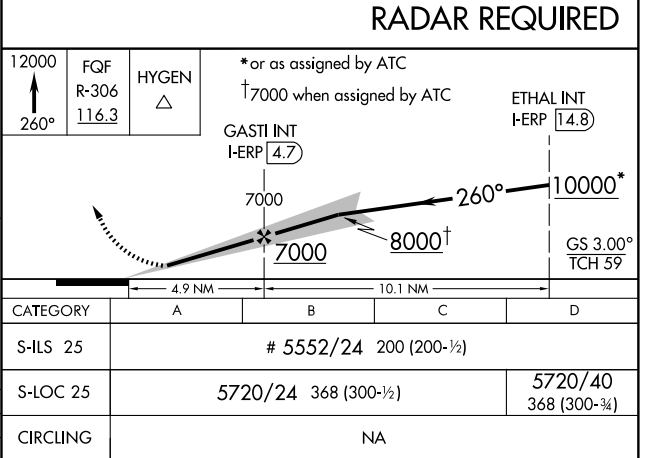
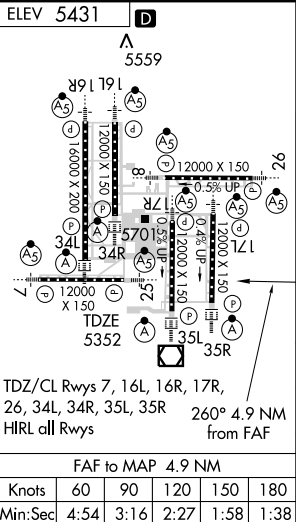
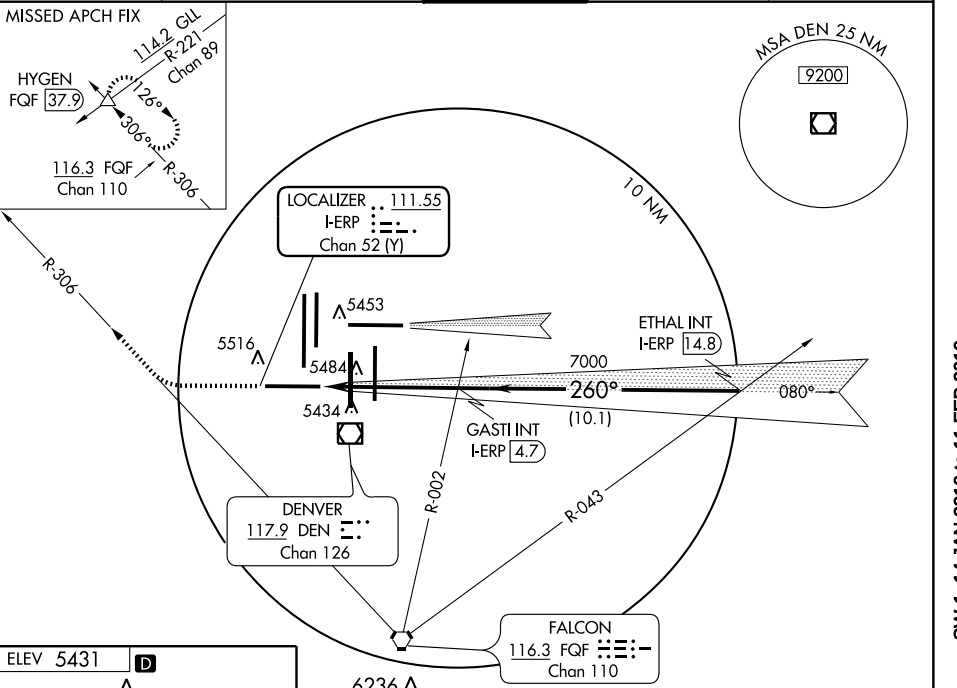
SW-1, 14 JAN 2010 to 11 FEB 2010

Simultaneous approach authorized with Rwy 26.
S-LOC minimums not authorized during simultaneous operations.
RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 12000 via 260° heading and FQF VORTAC R-306 to HYGEN INT/FQF 37.9 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 132.35 273.55	GND CON 127.5 379.175	CLNC DEL 118.75
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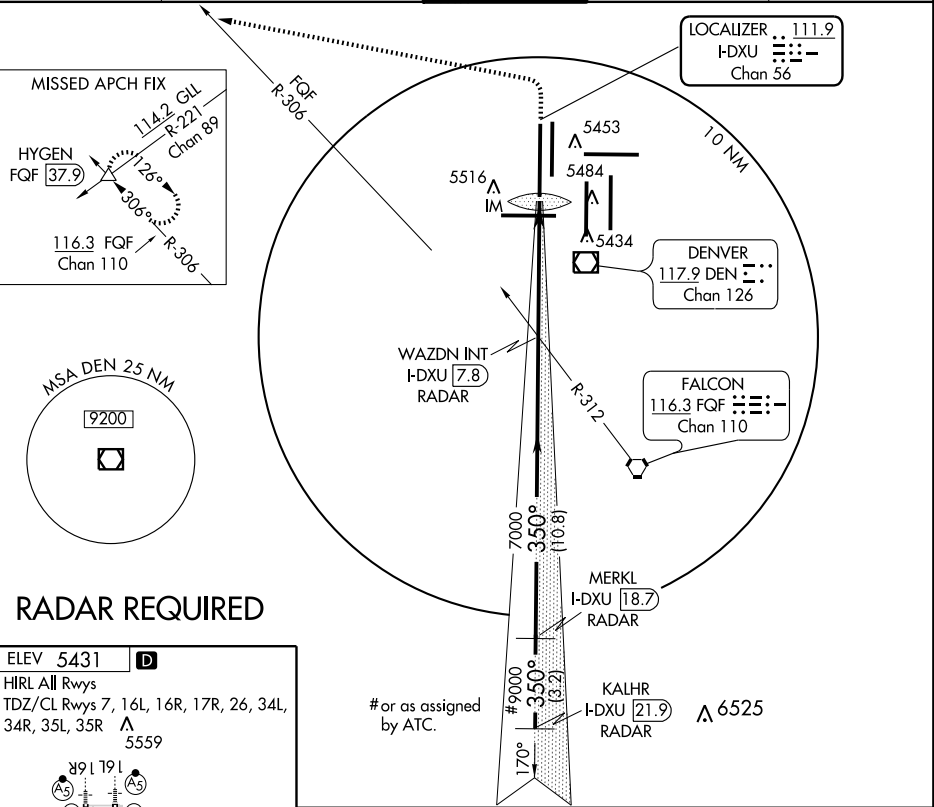
SW-1. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-DXU	APP CRS	Rwy Idg	16000
111.9	350°	TDZE	5324
Chan 56		Apt Elev	5431

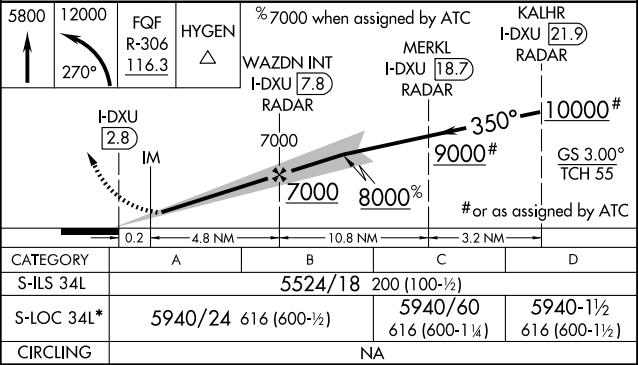
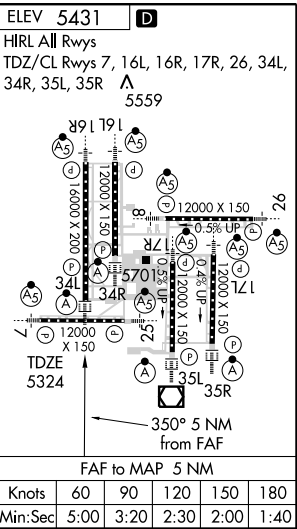
ILS or LOC RWY 34L
DENVER INTL (DEN)

Simultaneous approaches authorized with Rwy 35L and 35R.
S-LOC minima not authorized during simultaneous operations.
* DME or RADAR required.

ATIS	DENVER APP CON	DENVER TOWER	GND CON	CLNC DEL
125.6 379.9	119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	135.3 351.95	127.5 379.175	118.75



RADAR REQUIRED



LOC/DME I-LTT	APP CRS	Rwy Idg	12000
111.1	170°	TDZE	5354
Chan 48		Apt Elev	5431

ILS RWY 16L

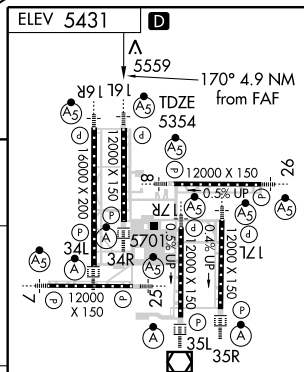
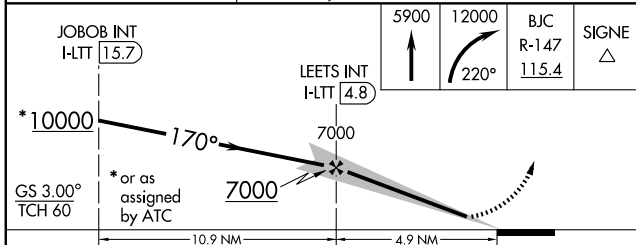
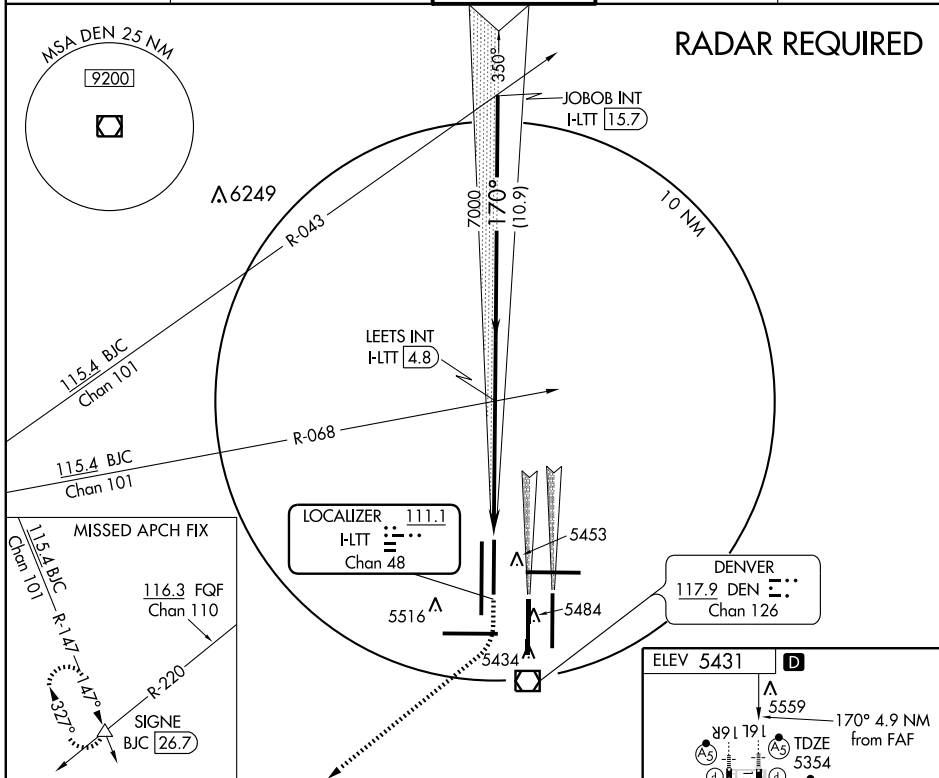
DENVER INTL (DEN)

Simultaneous approaches authorized with Rwy 17L and 17R.
S-LOC minima not authorized during simultaneous operations.



MISSED APPROACH: Climb to 5900, then climbing right turn to 12000 via 220° heading and BJC VOR/DME R-147 to SIGNE INT/BJC 26.7 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLNC DEL 118.75
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CATEGORY	A	B	C	D
S-ILS 16L	5554/18 200 (200-1/2)			
S-LOC 16L	5820/24	466 (400-1/2)	5820/40 466 (400-3/4)	5820/50 466 (400-1)
CIRCLING	NA			

FDZ/CL Rwy 7, 16L, 16R, 17R, 26, 34L, 34R, 35L, 35R HIRL all Rwy					
FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

LOC/DME I-ACX 108.5 Chan 22	APP CRS 170°	Rwy Idg TDZE Apt Elev 12000 5388 5431
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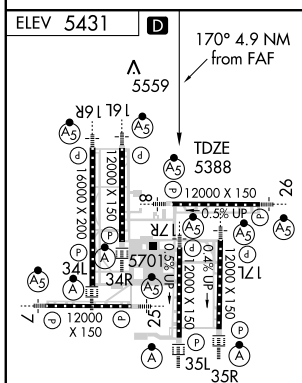
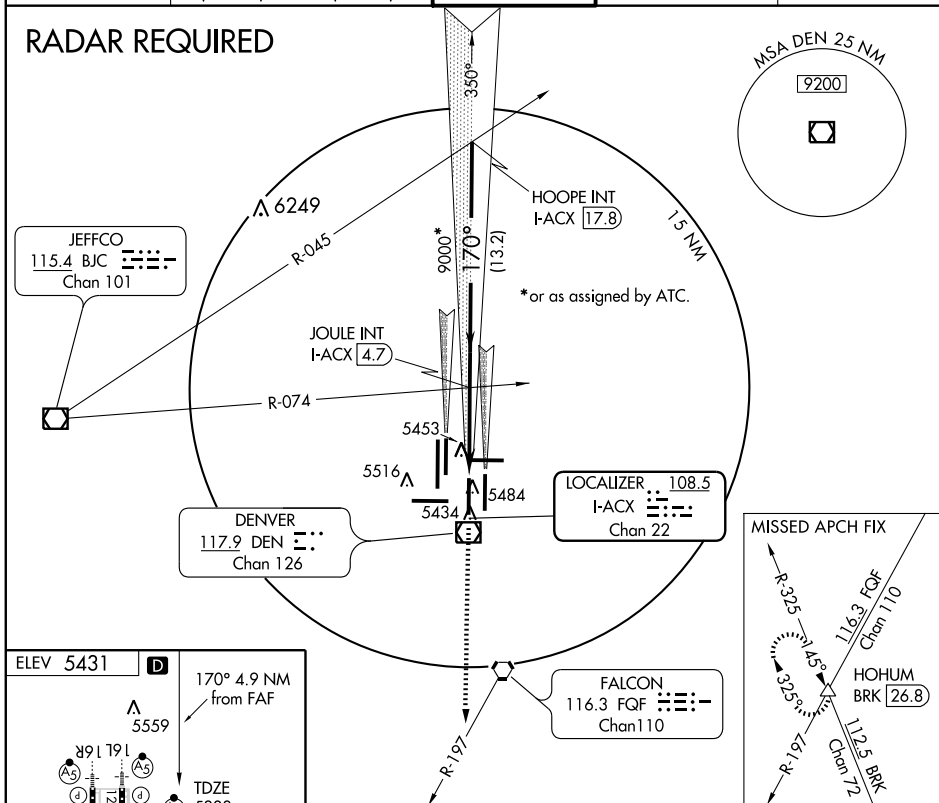
ILS RWY 17R

DENVER INTL (DEN)

Simultaneous approaches authorized with Rwy 16L and 17L. S-LOC minima not authorized during simultaneous operations. For inoperative MALSR, increase S-LOC Cat D visibility to RVR 5000.	MALSR 	MISSED APPROACH: Climb to 10000 via 170° heading and FGF VORTAC R-197 to HOHUM INT/BRK 26.8 DME and hold.
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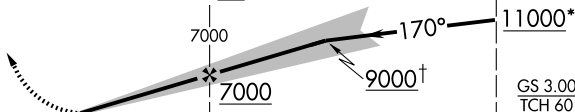
ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 133.3 322.45	GND CON 121.85 377.1	CLNC DEL 118.75
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RADAR REQUIRED



TDZ/CL Rwy 7, 16L, 16R,
17R, 26, 34L, 34R, 35L, 35R
HIRL all Rwy's

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

10000 ↑ 170°	FGF R-197 116.3	HOHUM △	* or as assigned by ATC. ↑ 7000 when assigned by ATC		HOPE INT I-ACX 17.8
JOULE INT I-ACX 4.7			7000		
			11000*		
4.9 NM			13.2 NM		
CATEGORY	A	B	C	D	
S-ILS 17R	5588/18 200 (200-½)				
S-LOC 17R	5680/24 292 (300-½)				5680/40 292 (300-¾)
CIRCLING	NA				

LOC/DME I-JOY <u>108.9</u> Chan 26	APP CRS 260°	Rwy Idg 12000 TDZE 5306 Apt Elev 5431
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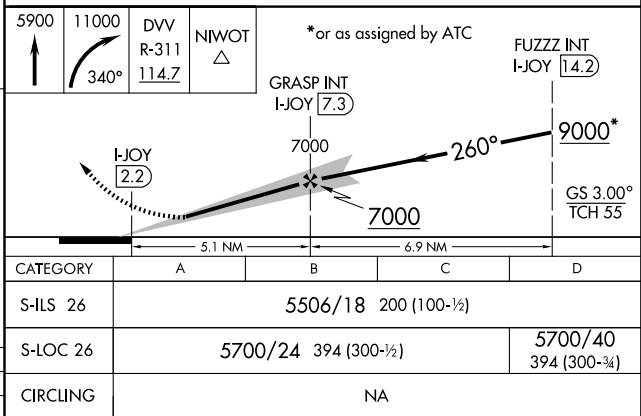
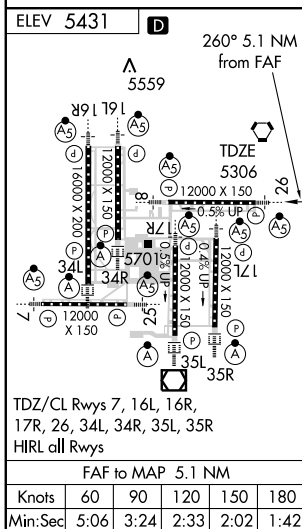
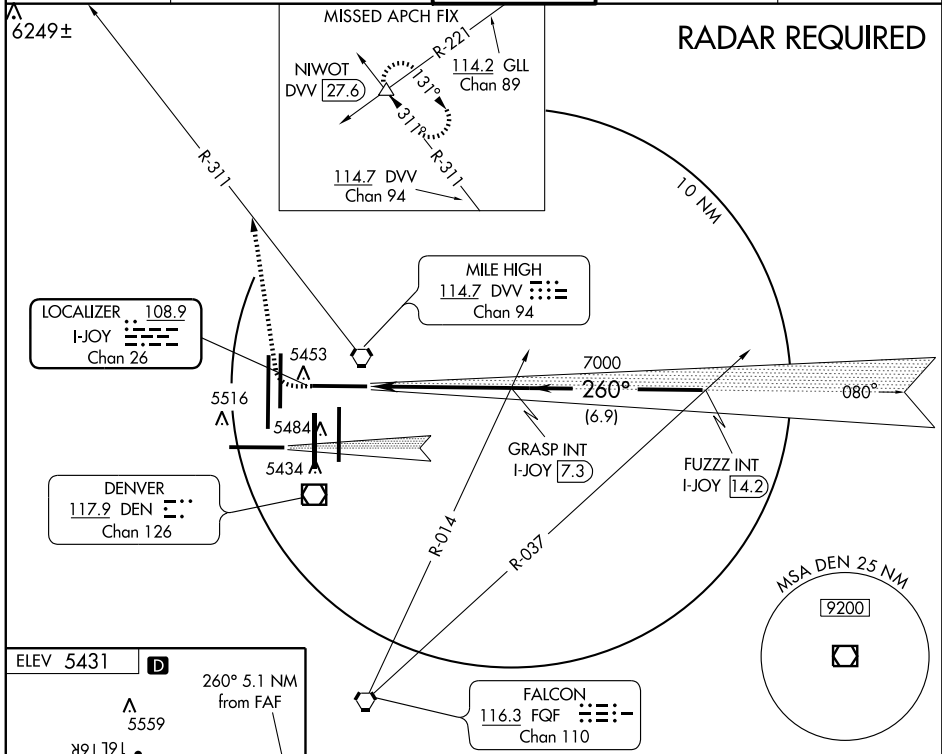
ILS RWY 26
DENVER INTL (DEN)

T Simultaneous approaches authorized with Rwy 25. S-LOC minima not authorized during simultaneous operations.

MALSR

MISSED APPROACH: Climb to 5900 then climbing right turn to 11000 via 340° heading and DVV VORTAC R-311 to NIWOT INT/DVV 27.6 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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AL-9077 (FAA)

LOC/DME I-DXU 111.9 Chan 56	APP CRS 350°	Rwy Idg 16000 TDZE 5324 Apt Elev 5431
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ILS RWY 34L (CAT II)
DENVER INTL (DEN)

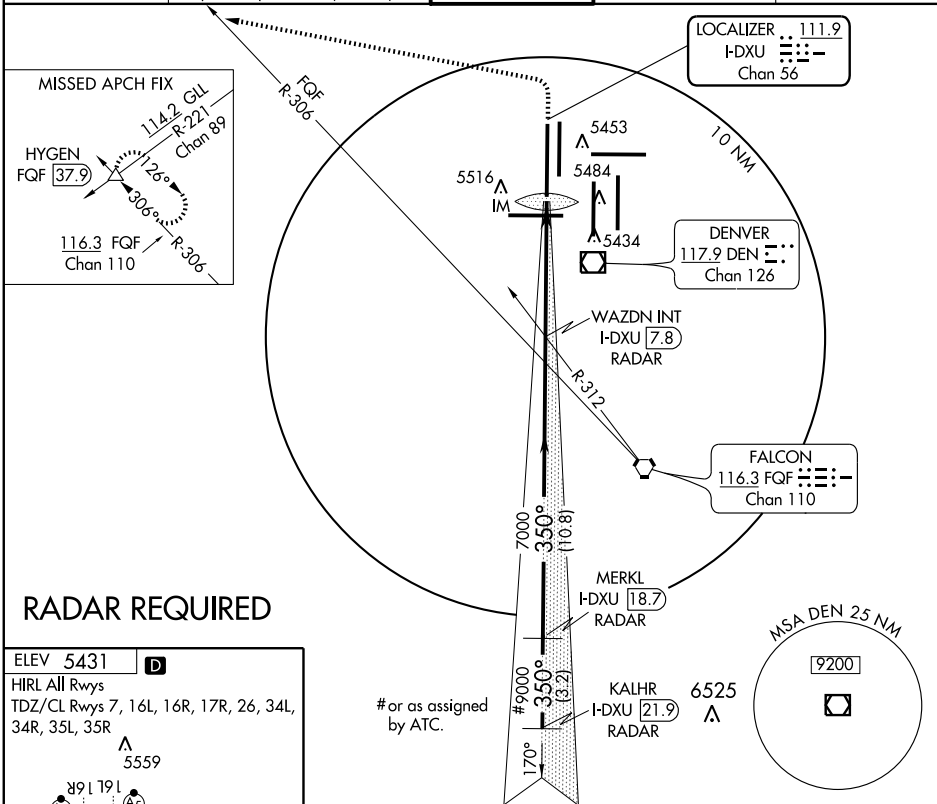


A Simultaneous approaches authorized with Rwy 35L and 35R.



MISSED APPROACH: Climb to 5800, then climbing left turn to 12000 via 270° heading and FQF VORTAC R-306 to HYGEN INT/FQF 37.9 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLNC DEL 118.75
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SW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 5431

HRL All Rwyys
TDZ/CL Rwyys 7, 16L, 16R, 17R, 26, 34L,
34R, 35L, 35R

Λ
5559

TDZE 5324

5800 ↑	12000 ↖ 270°	FQF R-306 116.3	HYGEN △	# or as assigned by ATC % 7000 when assigned by ATC	KALHR I-DXU 21.9 RADAR
				MERKL I-DXU 18.7 RADAR 350° 10000# GS 3.00° TCH 55'	
CATEGORY	A			B	C
S-ILS 34L	RA 107/12			100	DA 5424
CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED					

⚠

Simultaneous approaches authorized with Rwy 35L and 35R.

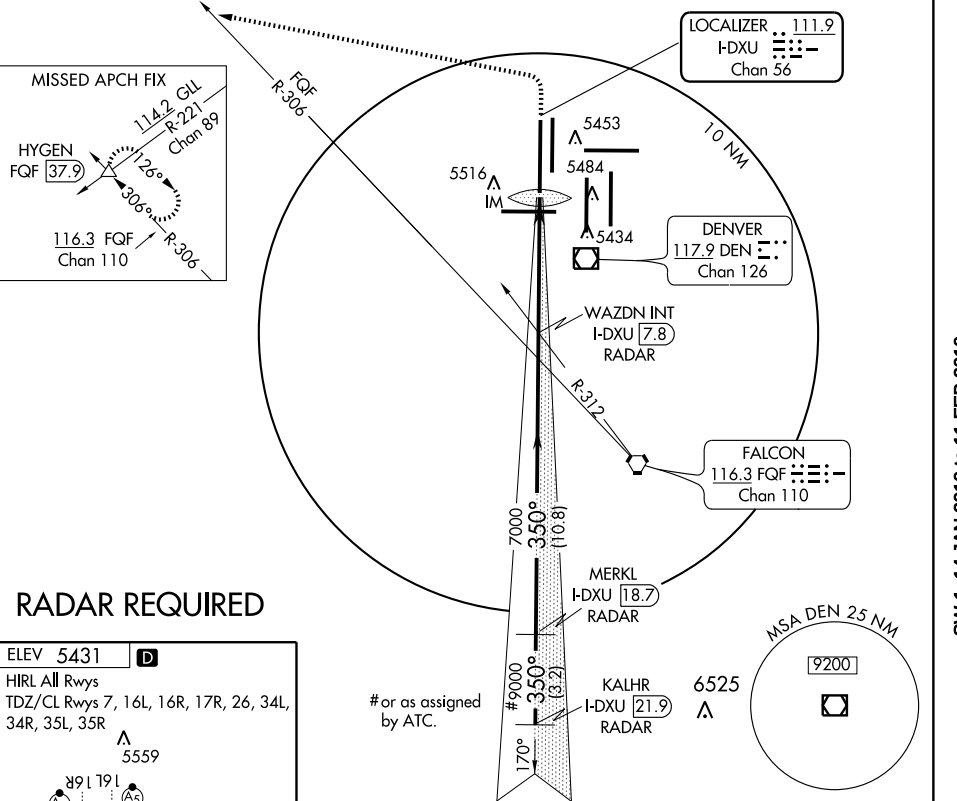
ALSIF-2

ⓘ

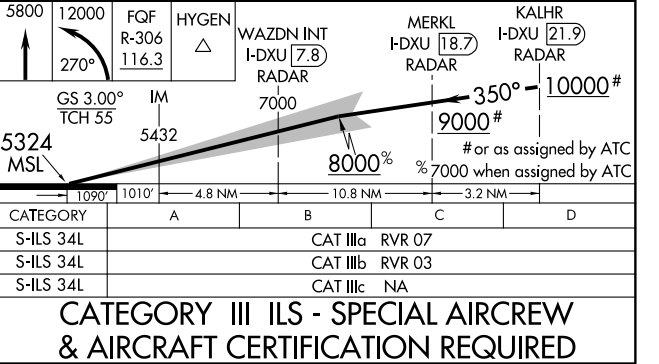
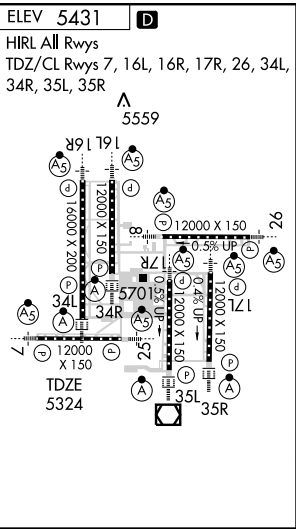
ⓘ

MISSED APPROACH: Climb to 5800, then climbing left turn to 12000 via 270° heading and FQF VORTAC R-306 to HYGEN INT/FQF 37.9 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLNC DEL 118.75
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RADAR REQUIRED



LOC/DME I-OUF <u>111.1</u> Chn 48	APP CRS 350°	Rwy Idg 12000 TDZE 5351 Apt Elev 5431
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ILS RWY 34R
DENVER INTL (DEN)

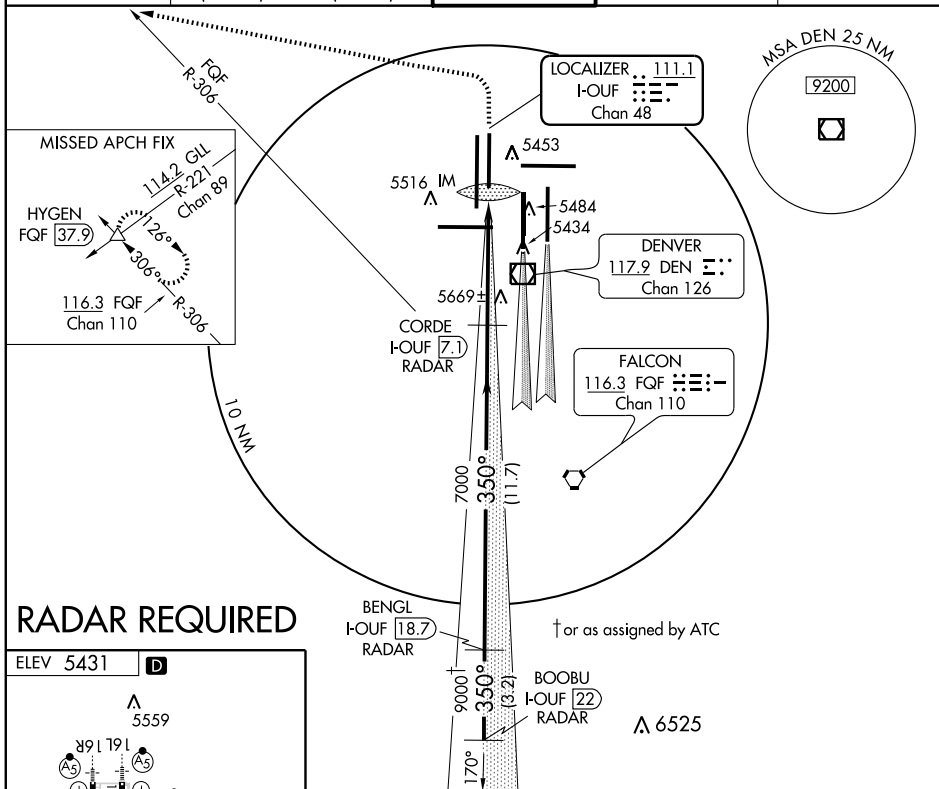
T *DME or RADAR required.
Simultaneous approaches authorized with Rwy 35L and 35R.
S-LOC minima not authorized during simultaneous operations.

ALSF-2



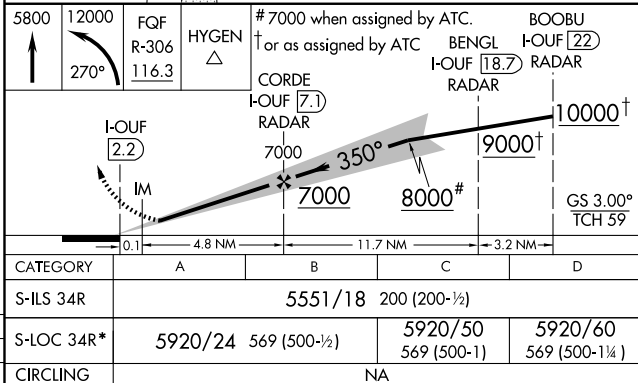
MISSED APPROACH: Climb to 5800, then climbing left turn to 12000 via 270° heading and FQF VORTAC R-306 to HYGEM INT/FQF 37.9 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLNC DEL 118.75
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RADAR REQUIRED

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



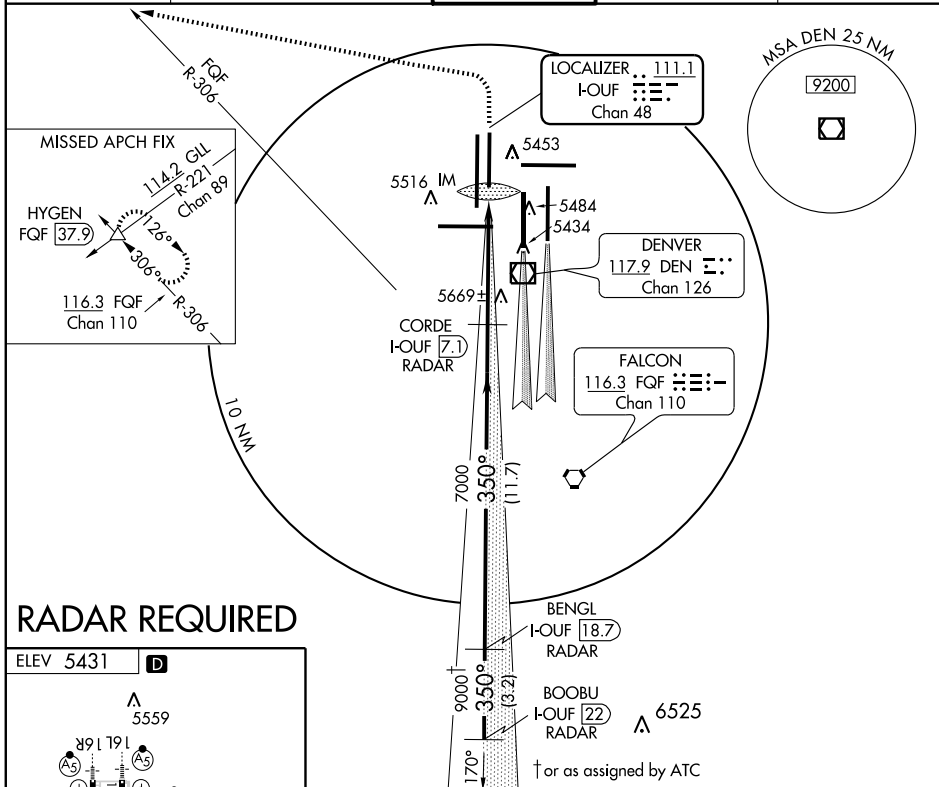
LOC/DME I-OUF 111.1 Chan 48	APP CRS 350°	Rwy Idg TDZE Apt Elev 5351 5431
---	------------------------	--

ILS RWY 34R (CAT II)

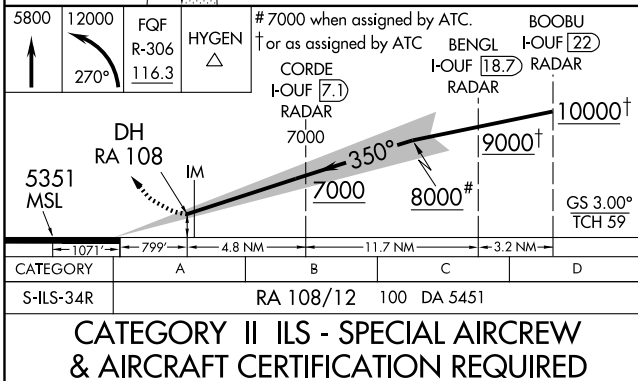
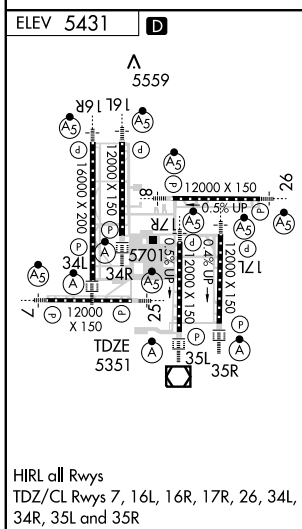
DENVER INTL (DEN)

	ALSIF-2 	MISSED APPROACH: Climb to 5800, then climbing left turn to 12000 via 270° heading and FQF VORTAC R-306 to HYGEN INT/FQF 37.9 DME and hold.
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ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLNC DEL 118.75
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RADAR REQUIRED



LOC/DME I-OUF <u>111.1</u> Chan 48	APP CRS 350°	Rwy Idg 12000 TDZE 5351 Apt Elev 5431
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ILS RWY 34R (CAT III)
DENVER INTL (DEN)

T Simultaneous approaches authorized with Rwy 35L and 35R.

ALSF-2

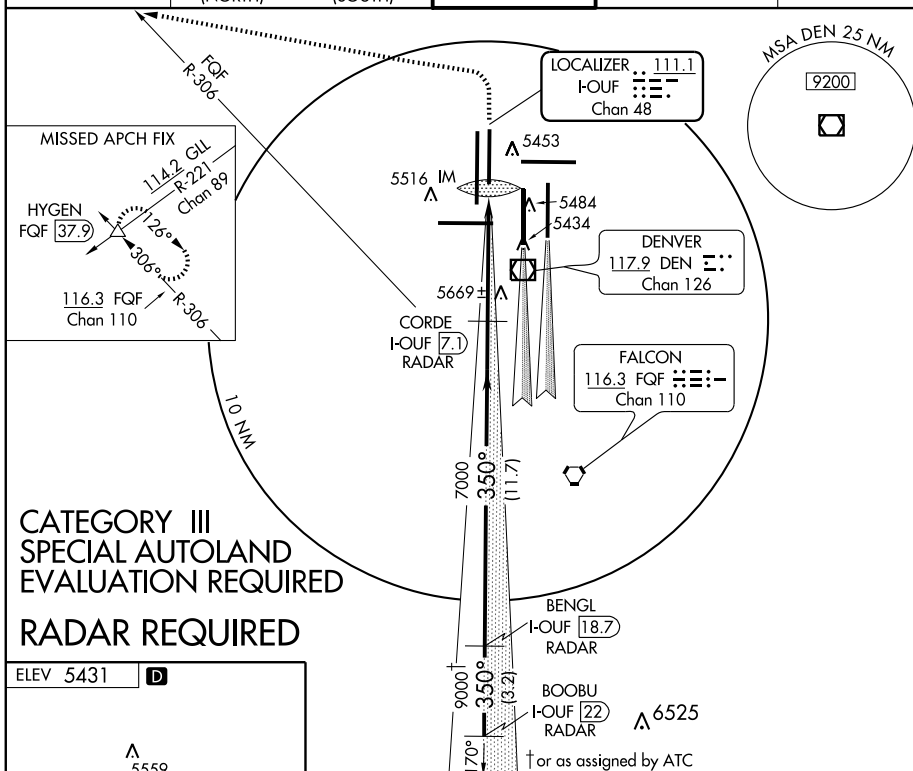
MISSED APPROACH: Climb to 5800, then climbing left turn to 12000 via 270° heading and FQF VORTAC R-306 to HYGEM INT/FQF 37.9 DME and hold.

ATIS
125.6 379.9

DENVER APP CON			
119.3	307.3	120.35	379.3
(NORTH)		(SOUTH)	

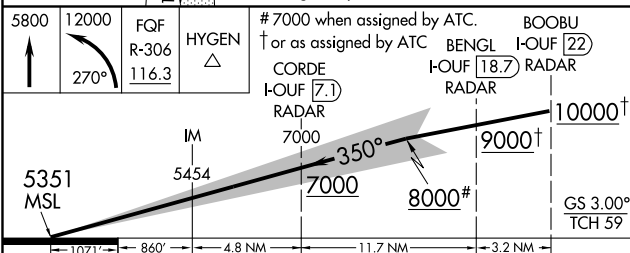
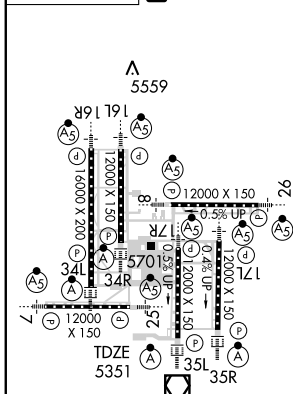
DENVER TOWER
135.3 351.95

GND CON
127.5 379.175

CLNC DEL
118.75

CATEGORY III
SPECIAL AUTOLAND
EVALUATION REQUIRED
RADAR REQUIRED

ELEV 5431	D
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CATEGORY	A	B	C	D
S-ILS-34R		CAT IIIa	RVR 07	
S-ILS-34R		CAT IIIb	RVR 03	
S-ILS-34R		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwy's
TDZ/CL Rwy's 7, 16L, 16R, 17R, 26, 34L,
34R, 35L and 35R

LOC/DME I-AQD <u>108.5</u> Chan 22	APP CRS 350°	Rwy Idg 12000 TDZE 5431 Apt Elev 5431
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ILS RWY 35L
DENVER INTL (DEN)

T ** DME or RADAR required.

Simultaneous approaches authorized with Rwy 34R and 35R.
S-LOC minima not authorized during simultaneous operations.

ALSF-2



MISSED APPROACH: Climb to 10000, then right turn direct GLL VORTAC and hold.

ATIS
125.6 379.9

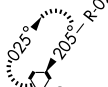
DENVER APP CON			
119.3	307.3	120.35	379.3
(NORTH)		(SOUTH)	

DENVER TOWER
133.3 322.45

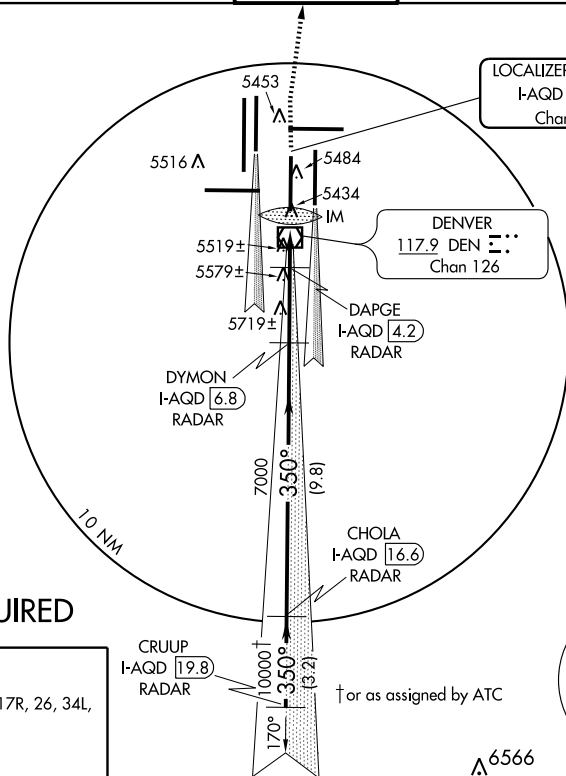
GND CON
121.85 377.1

CLNC DEL
118.75

MISSED APCH FIX



GILL
GILL
114.2
Chan 89



LOCALIZER 108.5
I-AQD
Chan 22

DENVER
117.9 DEN 
Chn 126

DAPGE
 -AQD 4.2
 RADAR

I-AQD 6.8
RADAR

CHOLA
I-AQD 16.6
RADAR

CRUUP
I-AQD 19
RADAR

† or as assigned by ATC

△⁶⁵⁶⁶

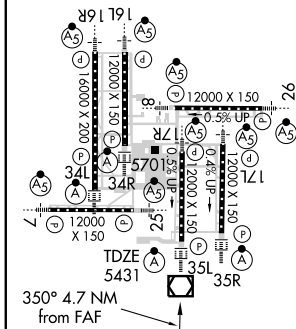
RADAR REQUIRED

ELEV 5431

HIRL all Rwy's
TDZ/CL Rwy's 7, 16L, 16R, 17R, 26, 34L,
34R, 35L, 35R ▲

D

5559



350° 4.7 NM
from FAF

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

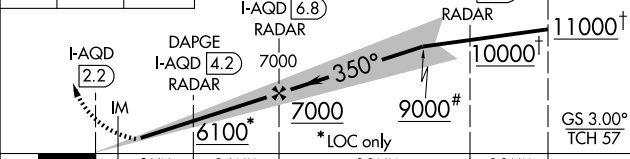
10000		
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GLL

114.2

† or as assigned by ATC
7000 when assigned by ATC.

CRUUP
I-AQD 19.8
RADAR



CATEGORY	A	B	C	D
S-ILS 35L	5631/18 200 (200-½)			
S-LOC 35L**	5780/24 349 (400-½)			5780/40 349 (400-¾)
CIRCLING	NA			

DENVER, COLORADO

AL-9077 (FAA)

LOC/DME I-AQD 108.5 Chan 22	APP CRS 350°	Rwy Idg 12000 TDZE 5431 Apt Elev 5431
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ILS RWY 35L (CAT II)
DENVER INTL (DEN)



Simultaneous approaches authorized with Rwy 34R and 35R.

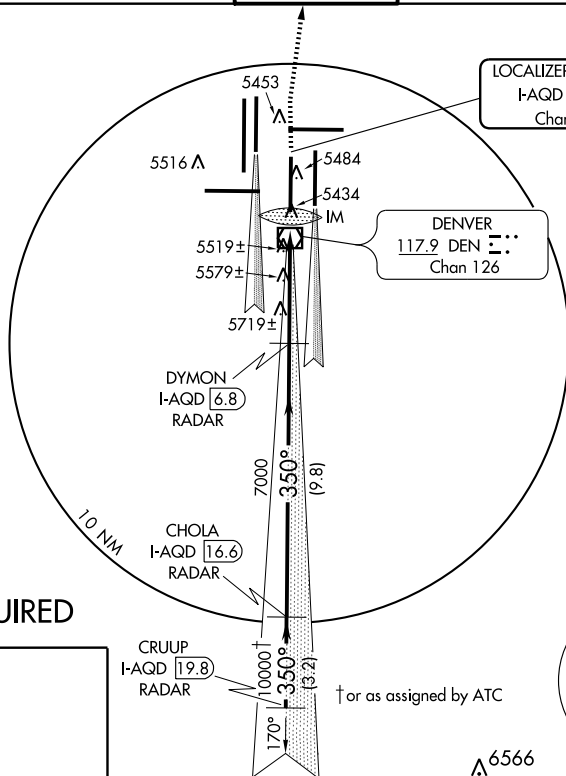
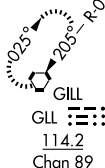
ALSF-2



MISSED APPROACH: Climb to 10000, then right turn
direct GLL VORTAC and hold.

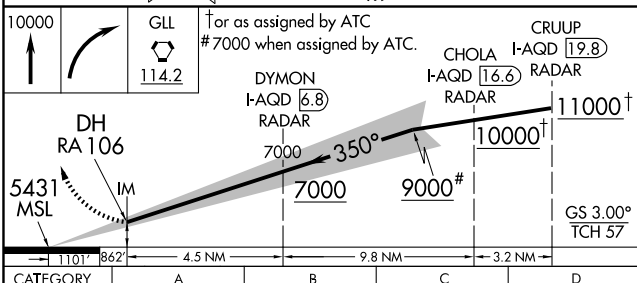
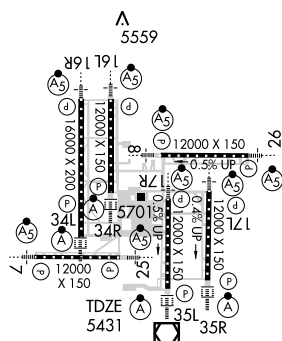
ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 133.3 322.45	GND CON 121.85 377.1	CLNC DEL 118.75
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MISSED APCH FIX



RADAR REQUIRED

ELEV 5431



CATEGORY	A	B	C	D
S-ILS 35L	RA 107/12	100	DA 5531	

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

SW-1, 14 JAN 2010 to 11 FEB 2010

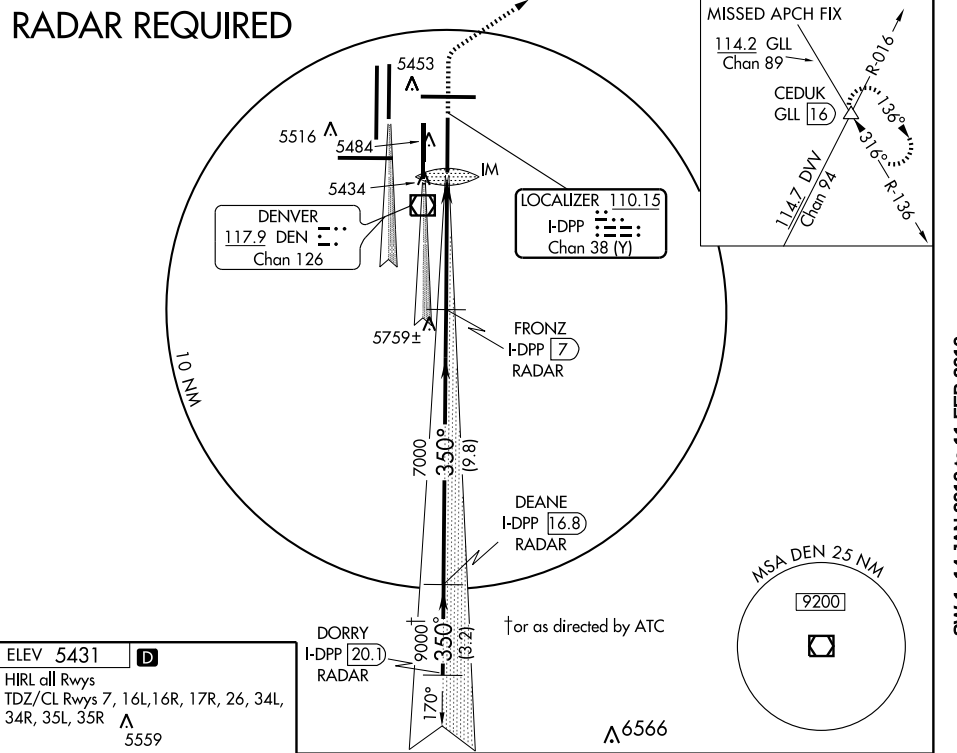
HIRL all Rwys
TDZ/CL Rwys 7, 16L, 16R, 17R, 26, 34L,
34R, 35L, 35R

***DME or RADAR required.**
Simultaneous approaches authorized with Rwy 34R and Rwy 35L.
S-LOC minima not authorized during simultaneous operations.

ALSF-2

MISSED APPROACH: Climb to 5800, then climbing right turn to 10000 via 045° heading and GLL VORTAC R-136 to CEDUK INT/ GLL 16 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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ELEV 5431	D	HIRL all Rwys	TDZ/CL Rwys 7, 16L, 16R, 17R, 26, 34L, 34R, 35L, 35R	5559
350° 4.9 NM from FAF	FAF to MAP 4.9 NM	Knots	60 90 120 150 180	Min:Sec 4:54 3:16 2:27 1:58 1:38
5800	10000	GLL R-136 114.2	CEDUK	↑ or as directed by ATC
DEANE I-DPP 16.8 RADAR	DORRY I-DPP 20.1 RADAR	FRONZ I-DPP 7 RADAR	IM	I-DPP 2.2
7000	7000	9000↑	9000↑	GS 3.00° TCH 59
0.1	4.8 NM	9.8 NM	3.2 NM	
CATEGORY	A	B	C	D
S-ILS 35R	5567/18 200 (200-½)			
S-LOC 35R*	5940/24	573 (600-½)	5940/50 573 (600-1)	5940/60 573 (600-1¼)
CIRCLING	NA			

DENVER, COLORADO

AL-9077 (FAA)

LOC/DME I-DPP 110.15 Chan 38(Y)	APP CRS 350°	Rwy Idg 12000 TDZE 5367 Apt Elev 5431
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ILS RWY 35R (CAT II)

DENVER INTL (DEN)



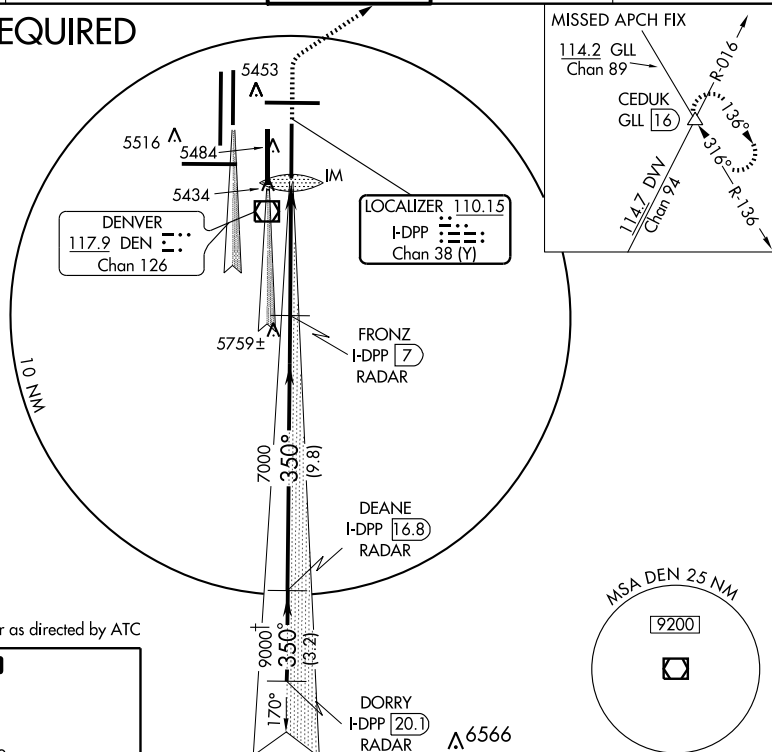
Simultaneous approaches authorized with Rwy 34R and Rwy 35L.



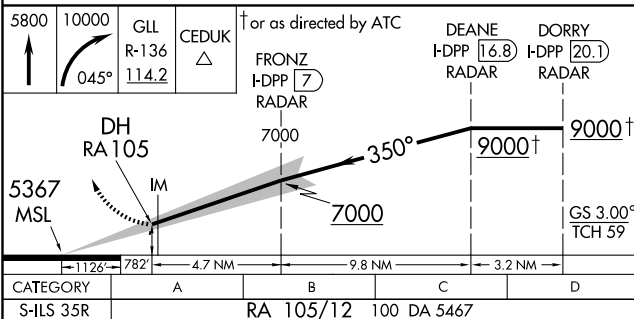
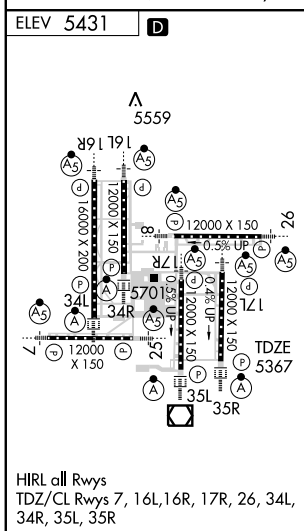
MISSED APPROACH: Climb to 5800, then climbing right turn to 10000 via 045° heading and GLL
VORTAC R-136 to CEDUK INT/ GLL 16 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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RADAR REQUIRED



†or as directed by ATC



CATEGORY	A	B	C	D
S-ILS 35R	RA 105/12	100 DA 5467		

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-1, 14 JAN 2010 to 11 FEB 2010

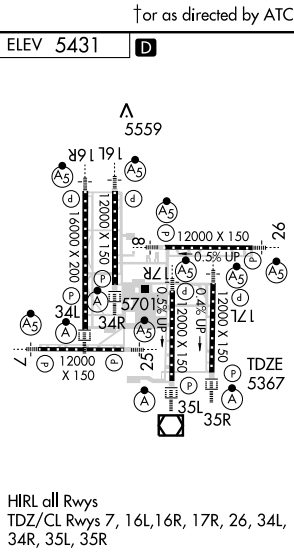
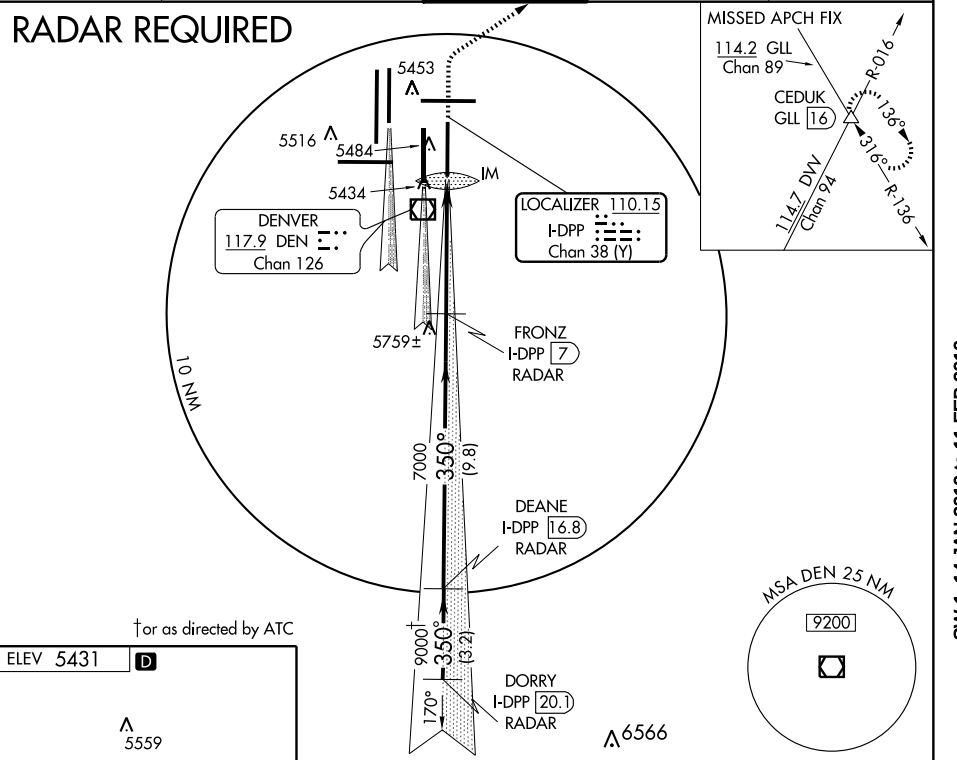
Simultaneous approaches authorized with Rwy 34R and Rwy 35L.

ALSIF-2

MISSED APPROACH: Climb to 5800, then climbing right turn to 10000 via 045° heading and GLL VORTAC R-136 to CEDUK INT/ GLL 16 DME and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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RADAR REQUIRED



5800	10000	GLL R-136 114.2	CEDUK	FRONZ I-DPP 7	DEANE I-DPP 16.8	DORRY I-DPP 20.1
↑ or as directed by ATC						
5367 MSL	5471	7000	7000	9000↑	9000↑	9000↑
GS 3.00° TCH 59'						
1126'	860'	4.7 NM	9.8 NM	3.2 NM		
CATEGORY	A	B	C	D		
S-ILS 35R		CAT IIIa	RVR 07			
S-ILS 35R		CAT IIIb	RVR 03			
S-ILS 35R		CAT IIIc	NA			

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

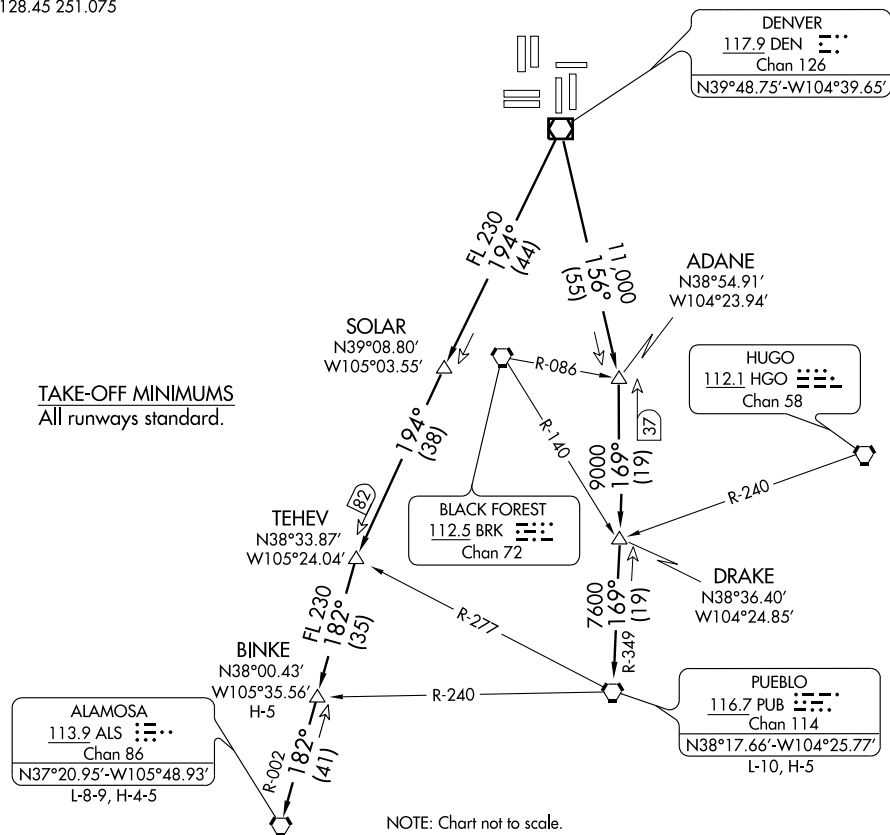
LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

ATIS DEP 134.025
CLNC DEL
118.75
DENVER DEP CON
128.45 251.075



SW-1. 14 JAN 2010 to 11 FEB 2010

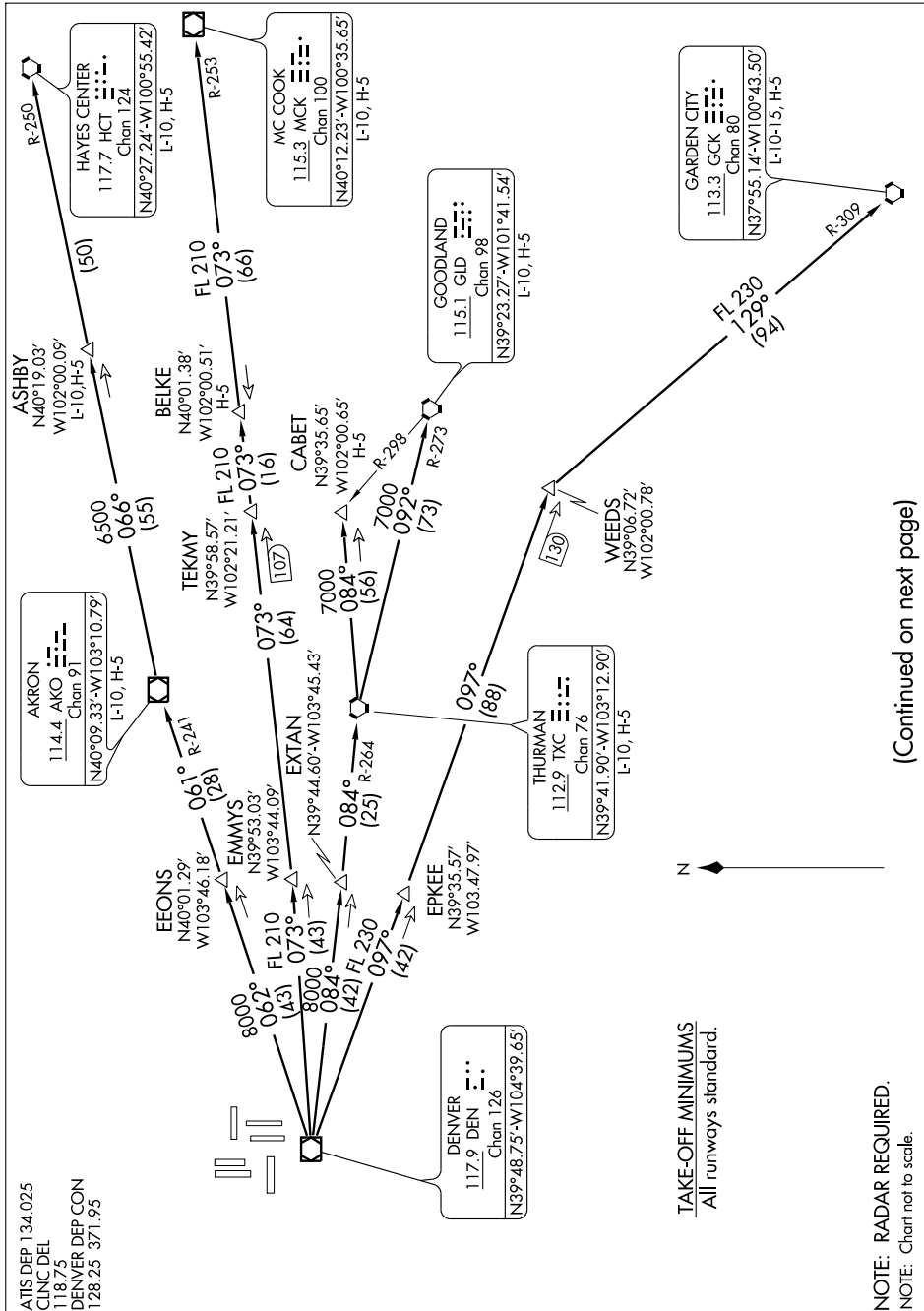
DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for radar vectors to assigned transition. Maintain 10,000 feet or **ATC assigned lower altitude**. Expect filed altitude 10 minutes after departure. LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.



(Continued on next page)

SW-1. 14 JAN 2010 to 11 FEB 2010

NOTE: RADAR REQUIRED.
NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for radar vectors to assigned transition. Maintain 10,000 feet or **ATC assigned lower altitude**. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

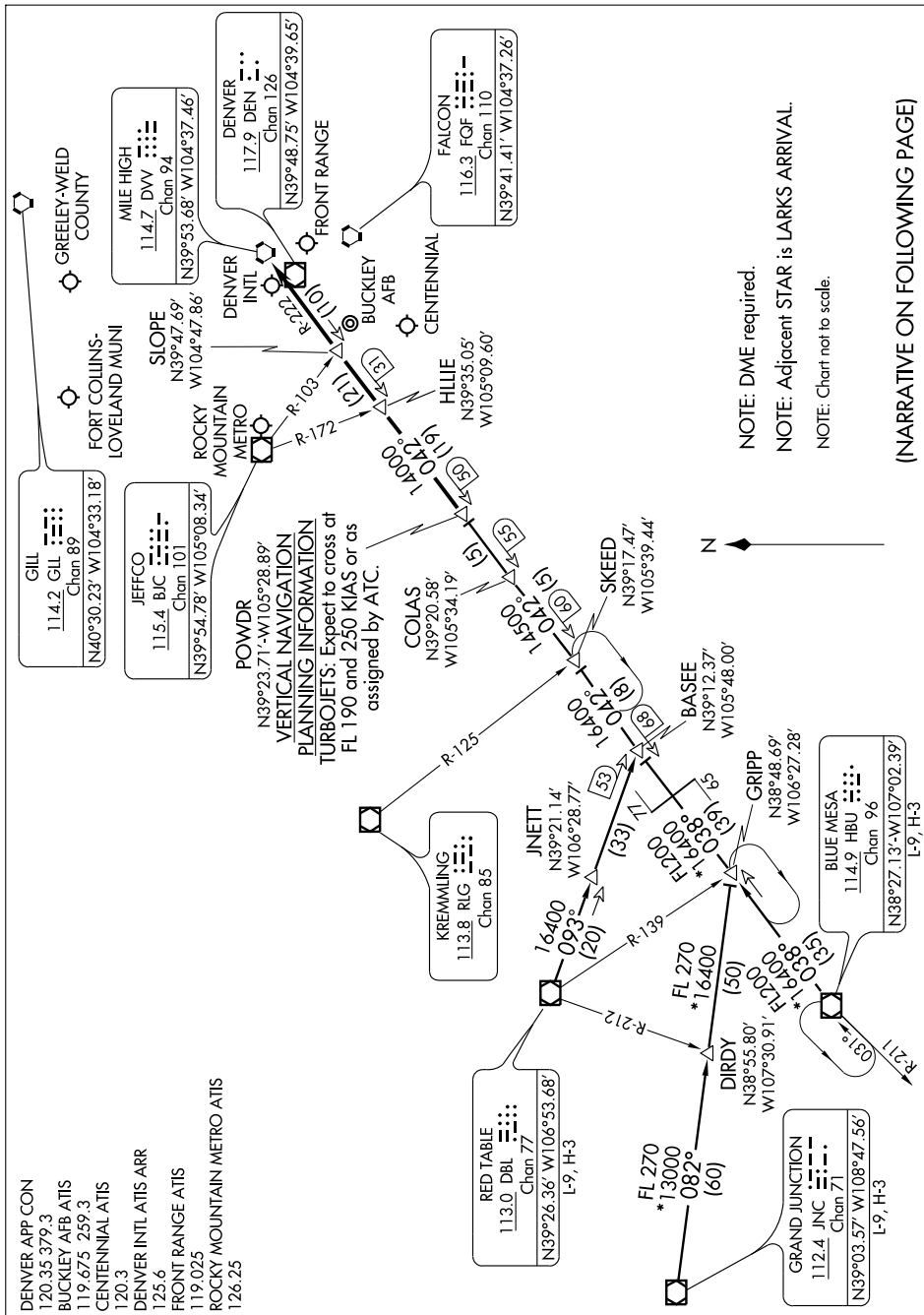
GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.



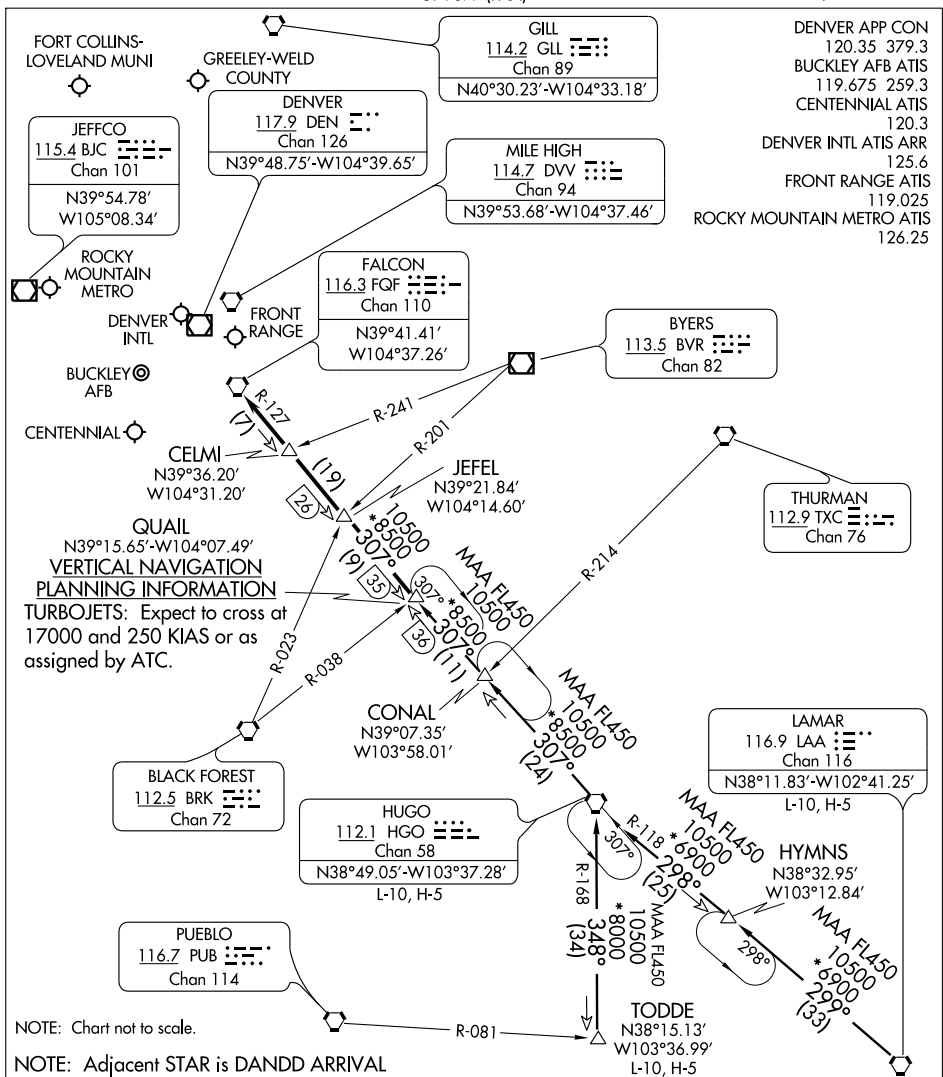
ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to to QUAIL INT. Thence....

TODDE TRANSITION (TODDE,QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
Expect radar vectors to the final approach course at or before FQF VORTAC.

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for ROCK SPRINGS TRANSITION for Changeover Point.

NOTE: Adjacent STAR is TOMSN ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

Baro/VNAV NA below -25°C (-13°F).

For inoperative MALSR increase LNAV Cat D visibility to RVR 6000.

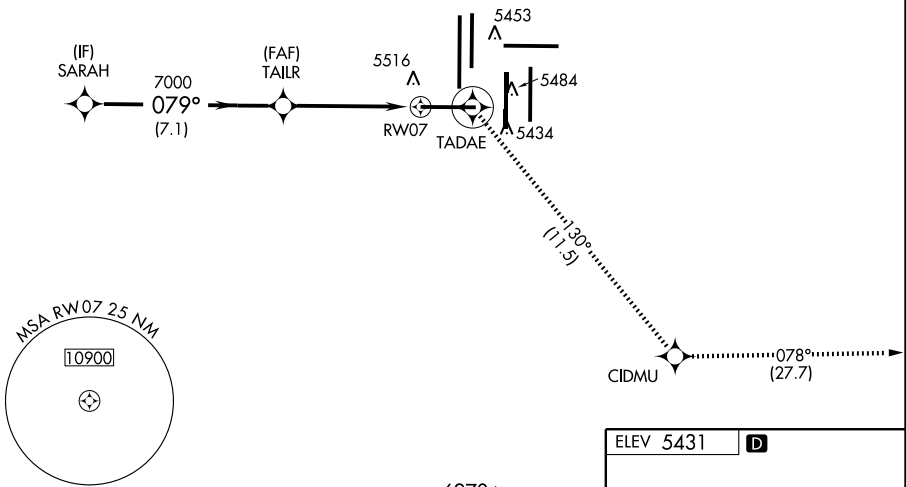
MALSR

MISSED APPROACH: Climb to 10000 via 079° course to TADAE WP then 130° track to CIDMU WP then 078° track to LIMEX WP and hold.

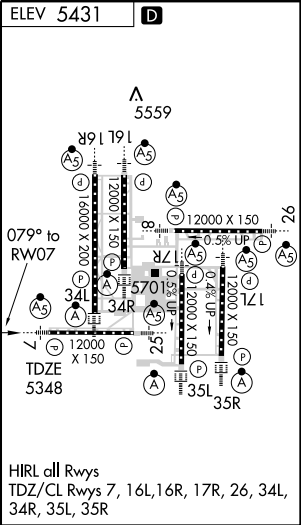
ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 132.35 273.55	GND CON 127.5 379.175	CLNC DEL 118.75
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RADAR REQUIRED

MISSED APCH FIX



#9000				
#or as assigned by ATC				
GS 3.00°				
TCH 61 VGSI and descent angles not coincident				
7.1 NM 3.9 NM 1 NM				
CATEGORY	A	B	C	D
GLS/PA DA	NA			
LNAV/VNAV DA	5740/40 392 (400-¾)			
LNAV MDA	5740/24		392 (400-½)	5740/50 392 (400-1)
CIRCLING	NA			



RNAV (GPS) RWY 8
DENVER INTL (DEN)

DENVER INTL (DEN)

APP CRS	Rwy Idg	12000
079°	TDZE	5351
	Apt Elev	5431

T
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 10000 via 080° course to OLDAE WP then 038° track to WITNE WP and hold.

ATIS
125.6 379.9

DENVER APP CON			
119.3	307.3	120.35	379.3
(NORTH)		(SOUTH)	

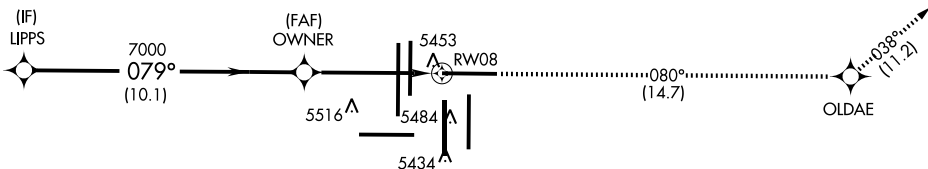
DENVER TOWER
124.3 256.85

GND CON
121.85 377.1

CLNC DEL
118.75

$$\begin{array}{r} \text{A} \\ 6249 \end{array}$$

MISSED APCH FIX



MSA RW 08 25 NM

9700

RADAR REQUIRED

ELEV 5431

D

*10000

LIPPS

1000

OLDAE

0.38°

WITNE

OWNER

1.3 NM to

RW08

7000

 3.04° 

.....

NA

*or as assigned by ATC

CATEGORY	DESCRIPTION	DATE	AMOUNT	REMARKS
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...
35	...	...	...	...
36	...	...	...	...
37	...	...	...	...
38	...	...	...	...
39	...	...	...	...
40	...	...	...	...
41	...	...	...	...
42	...	...	...	...
43	...	...	...	...
44	...	...	...	...
45	...	...	...	...
46	...	...	...	...
47	...	...	...	...
48	...	...	...	...
49	...	...	...	...
50	...	...	...	...
51	...	...	...	...
52	...	...	...	...
53	...	...	...	...
54	...	...	...	...
55	...	...	...	...
56	...	...	...	...
57	...	...	...	...
58	...	...	...	...
59	...	...	...	...
60	...	...	...	...
61	...	...	...	...
62	...	...	...	...
63	...	...	...	...
64	...	...	...	...
65	...	...	...	...
66	...	...	...	...
67	...	...	...	...
68	...	...	...	...
69	...	...	...	...
70	...	...	...	...
71	...	...	...	...
72	...	...	...	...
73	...	...	...	...
74	...	...	...	...
75	...	...	...	...
76	...	...	...	...
77	...	...	...	...
78	...	...	...	...
79	...	...	...	...
80	...	...	...	...
81	...	...	...	...
82	...	...	...	...
83	...	...	...	...
84	...	...	...	...
85	...	...	...	...
86	...	...	...	...
87	...	...	...	...
88	...	...	...	...
89	...	...	...	...
90	...	...	...	...
91	...	...	...	...
92	...	...	...	...
93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...

5820/24

469 (400- $\frac{1}{2}$)

5820/40

58.20	118.4
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H|RL a|| Rwys

TDZ/CL Rwy's 7, 16L, 16R, 17R, 26, 34L,
34R, 35L, 35R

DENVER INTL (DEN)

T **A** NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 12000 via 170° course to LAGRE WP, then 220° track to ONGIE WP, then 147° track to SIGNE WP and hold.

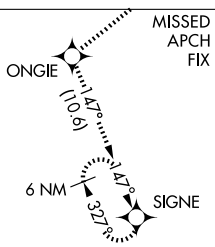
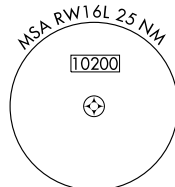
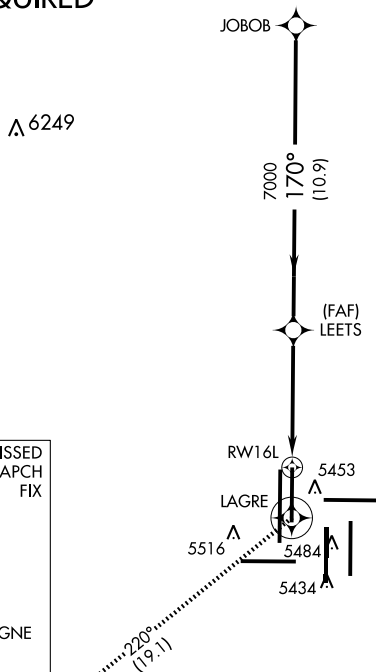
DENVER APP CON			
119.3	307.3	120.35	379.3
(NORTH)		(SOUTH)	

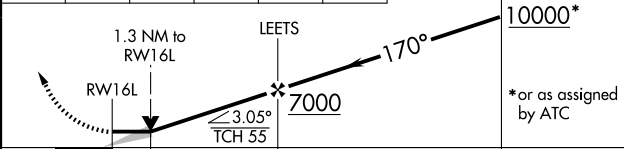
DENVER TOWER
135.3 351.95

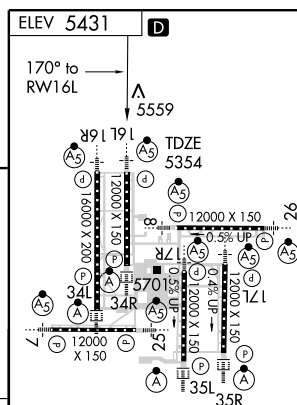
GND CON
127.5 379.175

CLNC DEL
118-75

RADAR REQUIRED



12000 ↑ 170°	LAGRE 	220° track	ONGIE 	147° track	SIGNE 	JOBBOB
						*or as assigned by ATC
CATEGORY	A		B		C	D
RNAV MDA	5820/24		466 (400-½)		5820/40 466 (400-¾)	5820/50 466 (400-1)
CIRCLING	NA					



HIRL all Rwy's
TDZ/CL Rwy's 7, 16L, 16R, 17R, 26, 34L,
34R, 35L, 35R

APP CRS	Rwy Idg	16000
170°	TDZE	5323
	Apt Elev	5431

RNAV (GPS) RWY 16R

DENVER INTL (DEN)

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MAISR

MISSED APPROACH: Climb to 13000 direct CODET WP and via 230° track to BREWS WP and hold.

ATIS	DENVER APP CON	DENVER TOWER	GND CON	CLNC DEL
125.6 379.9	119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	135.3 351.95	127.5 379.175	118.75

Diagram showing the RNP approach profile for RWY 16R. The vertical profile starts at SAKIC (IF) at 7000' and 170°. It descends through JETSN (FAF) to the RWY 16R. A missed approach fix (Brews) is shown at 8 NM, 074° and 254°. The diagram also includes a radar required inset showing the radar coverage area.

	SAKIC	JETSN	13000	CODET	230° track	BREWS
	*10000	7000		1.4 NM to RWY 16R		
		3.05° TCH 55				
CATEGORY	A	B	C	D		
LNAV MDA	5820/24	497 (400-½)	5820/40	5820/50		
			497 (400-¾)	497 (400-1)		
CIRCLING	NA					

RADAR REQUIRED

ELEV 5431

Diagram showing the radar required area for RWY 16R. It includes the radar coverage area and various waypoints (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z).

SW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	12000
170°	TDZE	5335
	Apt Elev	5431

RNAV (GPS) RWY 17L
DENVER INTL (DEN)

T	GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.
NA	Baro-VNAV NA below -25°C (-13°F). For inoperative MALSR increase LNAV CAT D visibility to RVR 6000.

MALSR



MISSED APPROACH: Climb to 10000 via 170° course to ISIME WP, then via 093° track to LIMEX WP and hold.

ATIS
125.6 379.9

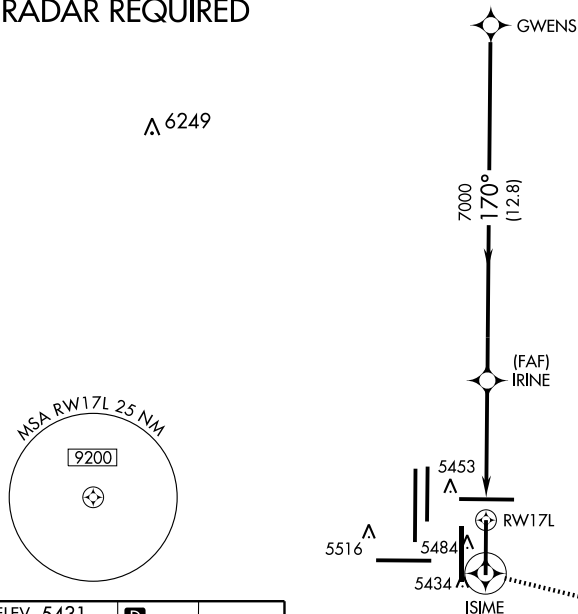
DENVER APP CON			
119.3	307.3	120.35	379.3
(NORTH)		(SOUTH)	

DENVER TOWER
124.3 256.85

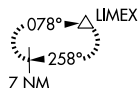
GND CON
121.85 377.1

CLNC DEL
118.75

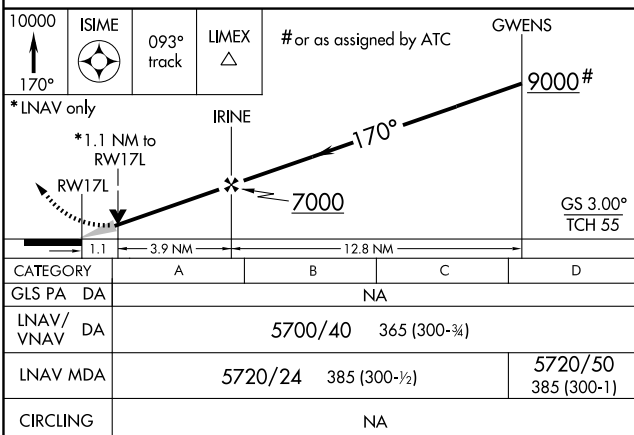
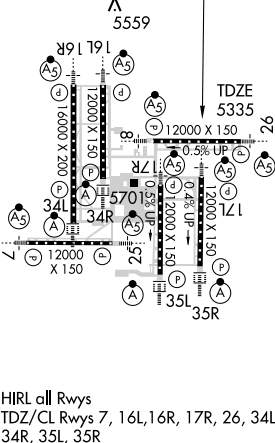
RADAR REQUIRED



MISSED APCH FIX



ELEV 5431

170° to
RW17L

APP CRS	Rwy Idg	12000
170°	TDZE	5388
	Apt Elev	5431

RNAV (GPS) RWY 17R

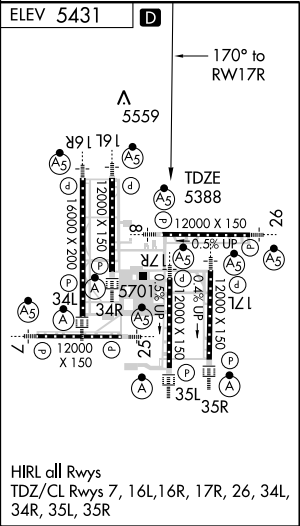
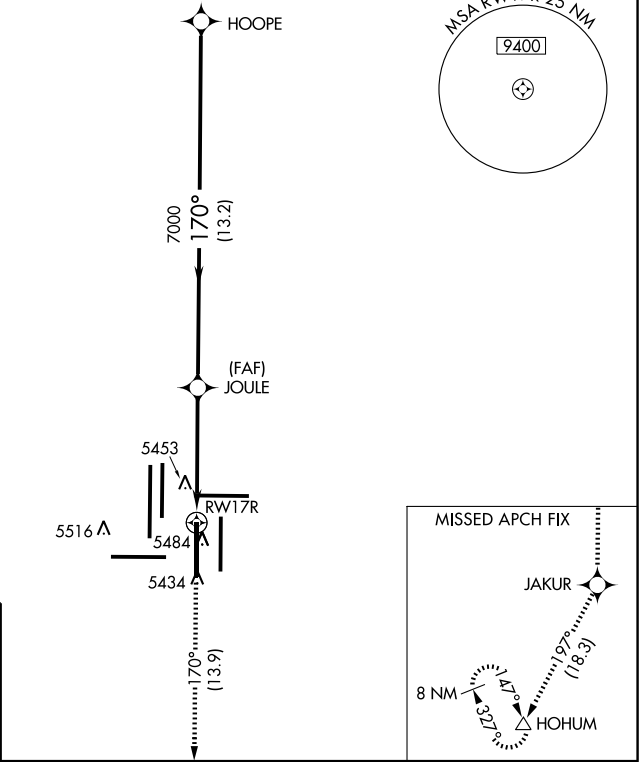
DENVER INTL (DEN)

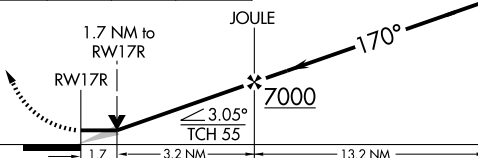
GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.	MALSR 	MISSED APPROACH: Climb to 10000 via 170° course to JAKUR WP, then via 197° track to HOHUM WP and hold.
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ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 133.3 322.45	GND CON 121.85 377.1	CLNC DEL 118.75
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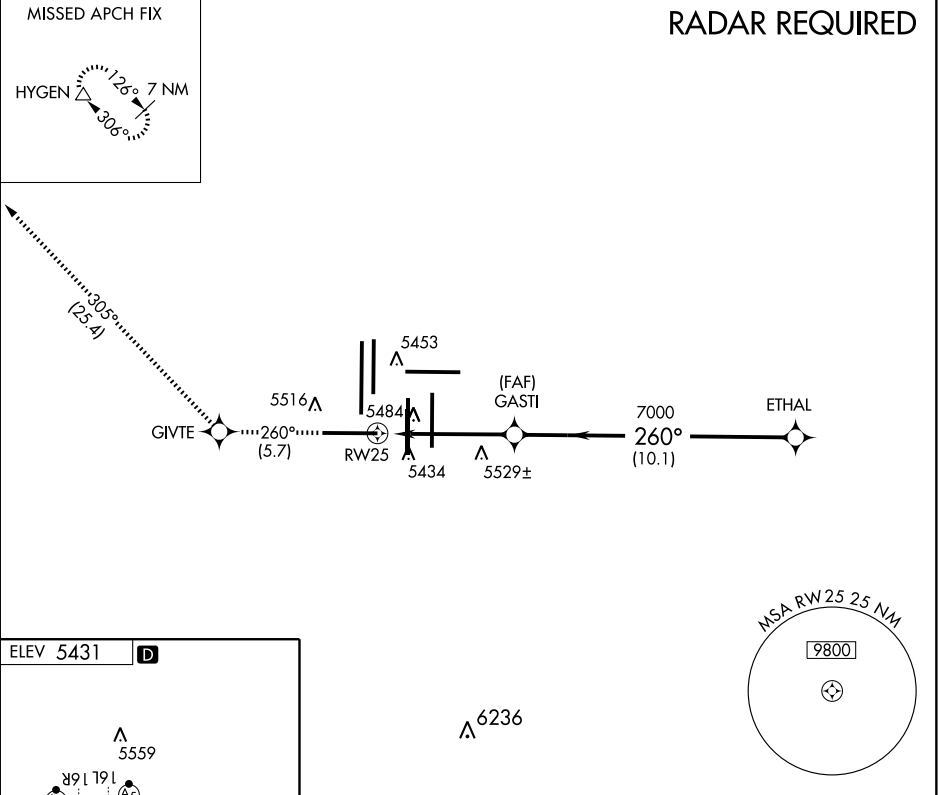
RADAR REQUIRED

6249



10000 ↑ 170°	JAKUR ✱	197° track	HOHUM △			
				11000*	*or as assigned by ATC	
CATEGORY	A		B		C	D
LNAV MDA	5920/24		532 (500-½)		5920/50 532 (500-1)	5920/60 532 (500-1¼)
CIRCLING	NA					

DME/DME RNP-0.3 NA.		MALSRLAS	MISSED APPROACH: Climb to 12000 via 260° course to GIVTE WP, then via 305° track to HYGEN WP and hold.	
ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 132.35 273.55	GND CON 127.5 379.175	CLNC DEL 118.75



HIRL all Rwy's
TDZ/CL Rwy's 7, 16L, 16R, 17R, 26, 34L, 34R, 35L, 35R

1.2 NM to RW25

3.04° TCH 59

1.2 3.7 NM 10.1 NM

CATEGORY	A		B	C	D
LNAV MDA	5780/24		428 (400-½)	5780/40 428 (400-¾)	5780/50 428 (400-1)
CIRCLING	NA				

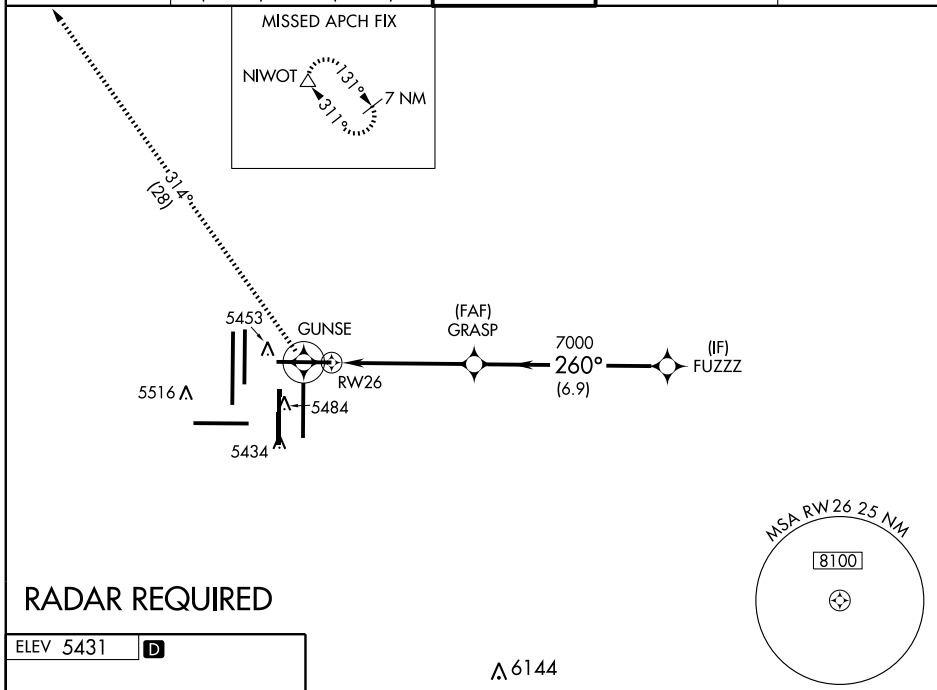
T	GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.
A NA	Baro/VNAV NA below -25°C (-13°F). For inoperative MALS increase LNAV/VNAV Cat D visibility to RVR 5000.

MALSR



MISSED APPROACH: Climb to 11000 via 260° course to GUNSE WP, then via 314° track to NIWOT WP and hold.

ATIS	DENVER APP CON		DENVER TOWER	GND CON	CLNC DEL
125.6 379.9	119.3 307.3 (NORTH)	120.35 379.3 (SOUTH)	124.3 256.85	121.85 377.1	118.75



SW-1. 14 JAN 2010 to 11 FEB 2010

[illegible]

11000 ↑ 260°	GUNSE 	314° track	NIWOT △	*or as assigned by ATC	FUZZZ
# LNAV only # 1.3 NM to RW26 RW26 GRASP 260° 9000* 7000 GS 3.00° TCH 55 1.3 3.8 NM 6.9 NM					
CATEGORY	A		B	C	D
GLS PA DA	NA				
LNAV/VNAV DA	5580/24 274 (200-½)				5580/40 274 (200-¾)
LNAV MDA	5760/24 454 (400-½)		5760/40 454 (400-¾)		5760/50 454 (400-1)
CIRCLING	NA				

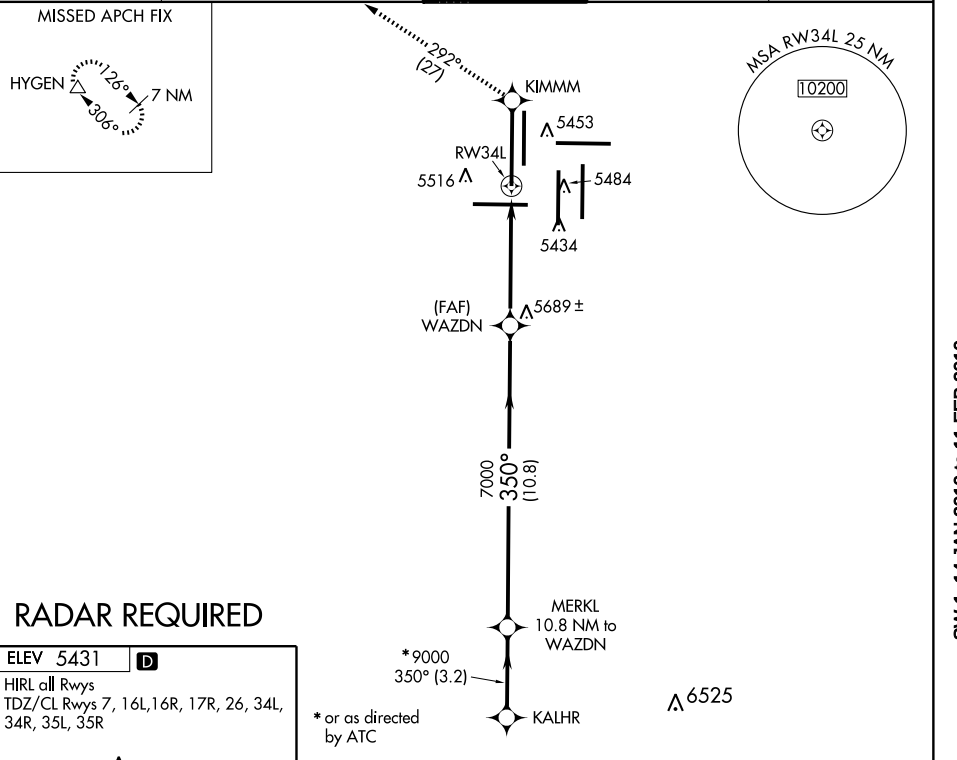
Baro-VNAV NA below -25°C (-13°F)

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 12000 direct KIMMM WP and via 292° track to HYGEN WP and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 135.3 351.95	GND CON 127.5 379.175	CLNC DEL 118.75
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SW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS 350°	Rwy Idg 12000 TDZE 5351 Apt Elev 5431
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RNAV (GPS) RWY 34R
DENVER INTL (DEN)

T GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.
A NA Baro-VNAV NA below -25°C (-13°F).

ALSF-2

MISSED APPROACH: Climb to 12000 via 350° course to CALTI WP, then climbing left turn direct HYGEM WP and hold.

ATIS
125.6 379.9

DENVER APP CON			
119.3	307.3	120.35	379.3
(NORTH)		(SOUTH)	

DENVER TOWER
135.3 351.95

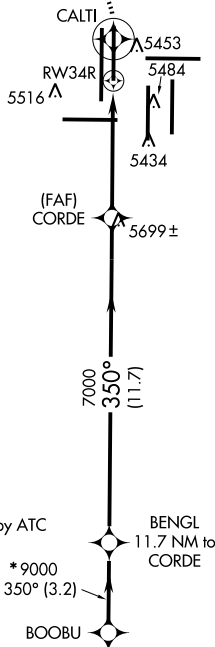
GND CON
127.5 379.175

CLNC DEL
118.75

MISSED APCH FIX



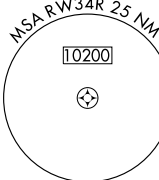
RADAR REQUIRED



* or as assigned by ATC

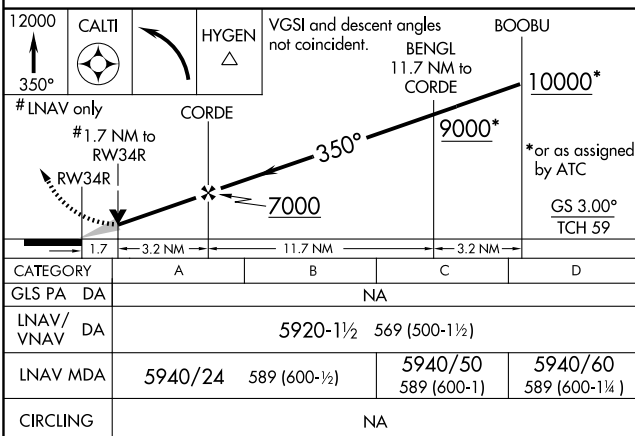
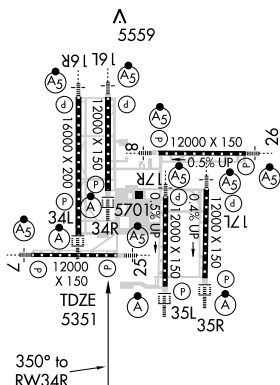
BENGL
1.7 NM to
CORDE

Δ 6525



ELEV 5431

HIRL all Rwys
TDZ/CL Rwys 7, 16L, 16R, 17R, 26, 34L,
34R, 35L, 35R



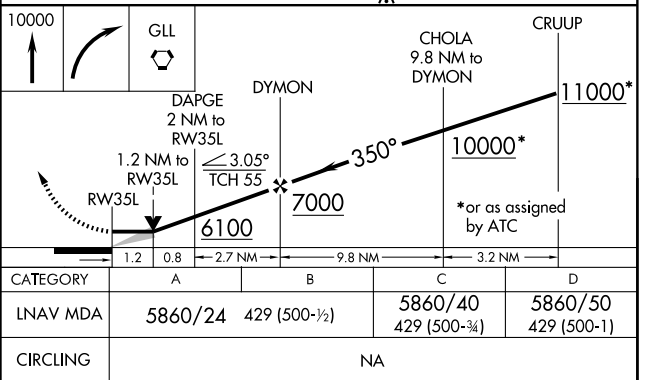
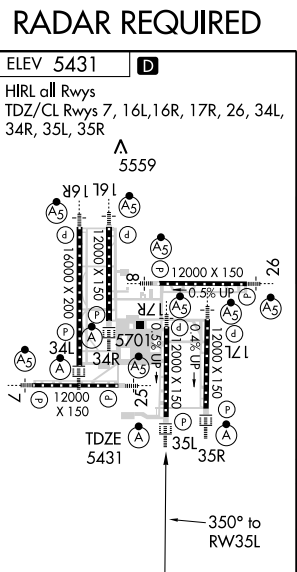
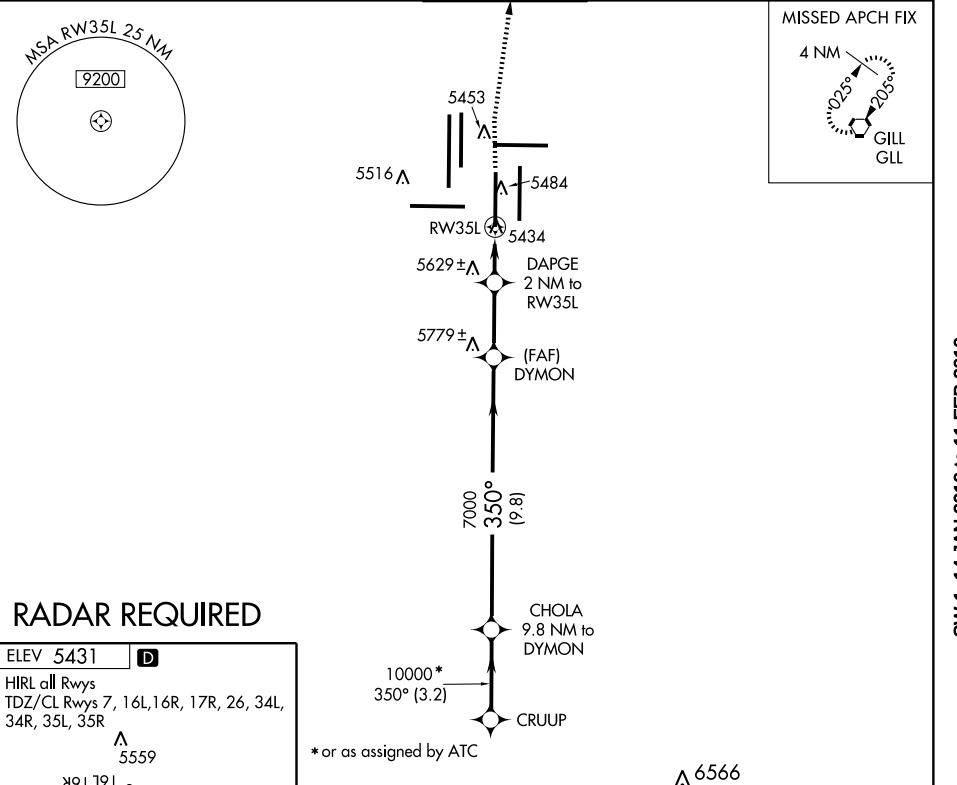
NA

GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.

ALSIF-2

MISSED APPROACH: Climb to 10000 then right turn direct GLL VORTAC and hold.

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 133.3 322.45	GND CON 121.85 377.1	CLNC DEL 118.75
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SW-1. 14 JAN 2010 to 11 FEB 2010

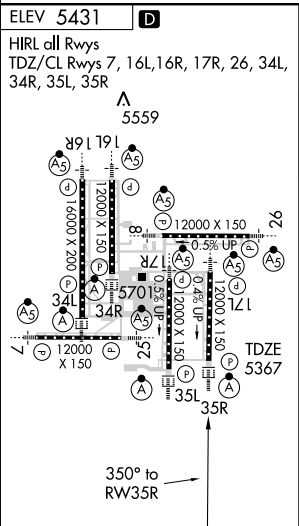
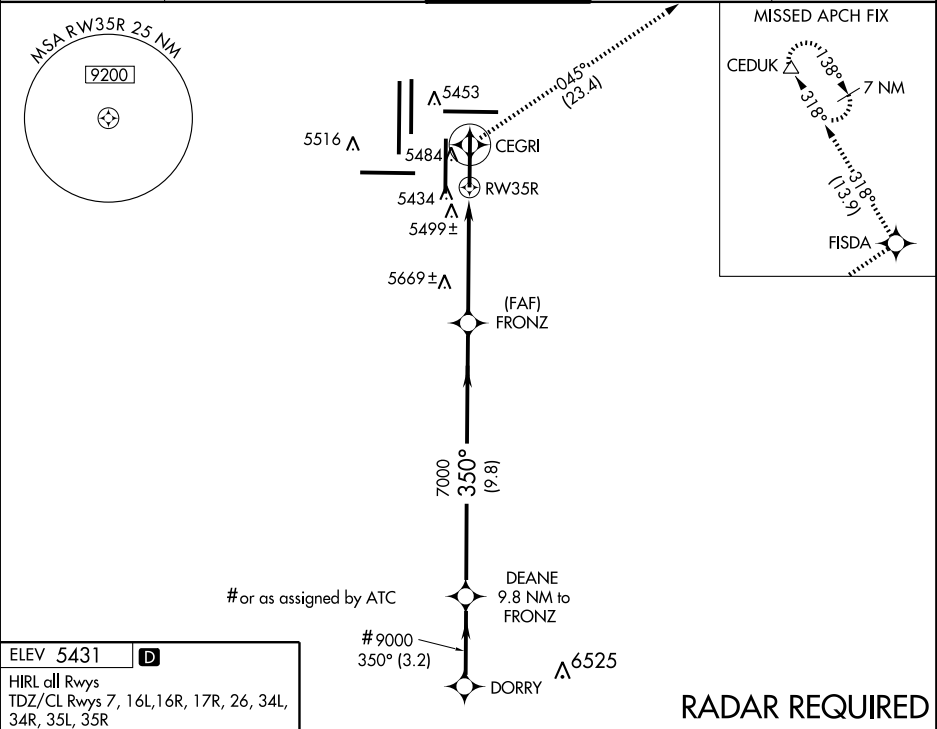
APP CRS	Rwy Idg	12000
350°	TDZE	5367
	Apt Elev	5431

RNAV (GPS) RWY 35R

DENVER INTL (DEN)

GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.	ALSF-2	MISSED APPROACH: Climb to 10000 via 350° course to CEGRI WP, then via 045° track to FISDA WP, then via 318° track to CEDUK WP and hold.
NA		

ATIS 125.6 379.9	DENVER APP CON 119.3 307.3 120.35 379.3 (NORTH) (SOUTH)	DENVER TOWER 124.3 256.85	GND CON 121.85 377.1	CLNC DEL 118.75
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RADAR REQUIRED				
10000 ↑ 350°	CEGRI 	045° track 	FISDA 	318° track CEDUK
* LNAV only				
* 1.8 NM to RW35R				
FRONZ				
RW35R				
1.8 3.1 NM 9.8 NM 3.2 NM				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	5760/40 393 (400-¾)			
LNAV MDA	5920/24 553 (500-½)		5920/50 553 (500-1)	5920/60 553 (500-1¼)
CIRCLING	NA			

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for radar vectors to assigned transition. Maintain 10000 feet or **ATC assigned lower altitude**. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.

TAKE-OFF OBSTACLE NOTES

RWY 8: Multiple trees beginning 115' from DER, 444' right of centerline, up to 100' AGL/5389' MSL.

RWY 16L: Tower 4722' from DER, 1359' left of centerline, 153' AGL/5473' MSL.

Antenna on OL tower 4746' from DER, 1358' left of centerline, 153' AGL/5473' MSL.

RWY 17L: Multiple trees beginning 247' from DER, 543' right of centerline, up to 100' AGL/5489' MSL.

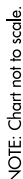
RWY 17R: Multiple trees beginning 1457' from DER, 759' right of centerline, up to 100' AGL/5529' MSL.

RWY 25: Multiple trees beginning 303' from DER, 557' right of centerline, up to 100' AGL/5439' MSL.

RWY 34L: Multiple trees beginning 273' from DER, 537' right of centerline, up to 100' AGL/5399' MSL.

RWY 34R: Multiple trees beginning 471' from DER, 580' right of centerline, up to 100' AGL/5449' MSL.

RWY 35L: Terrain beginning 149' from DER, 34' right of centerline, up to 5414' MSL.



ARRIVAL DESCRIPTION

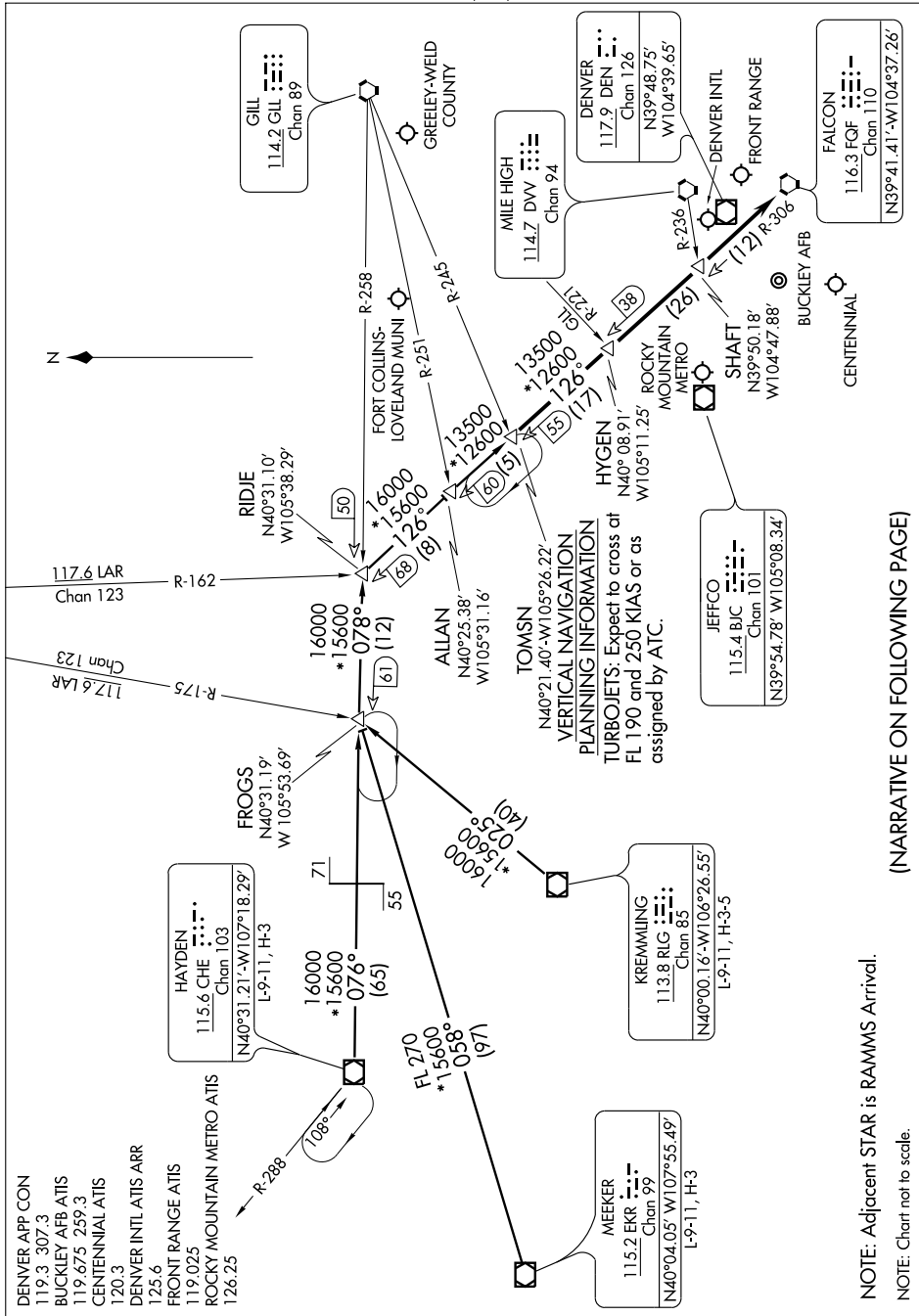
GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.



ARRIVAL DESCRIPTION

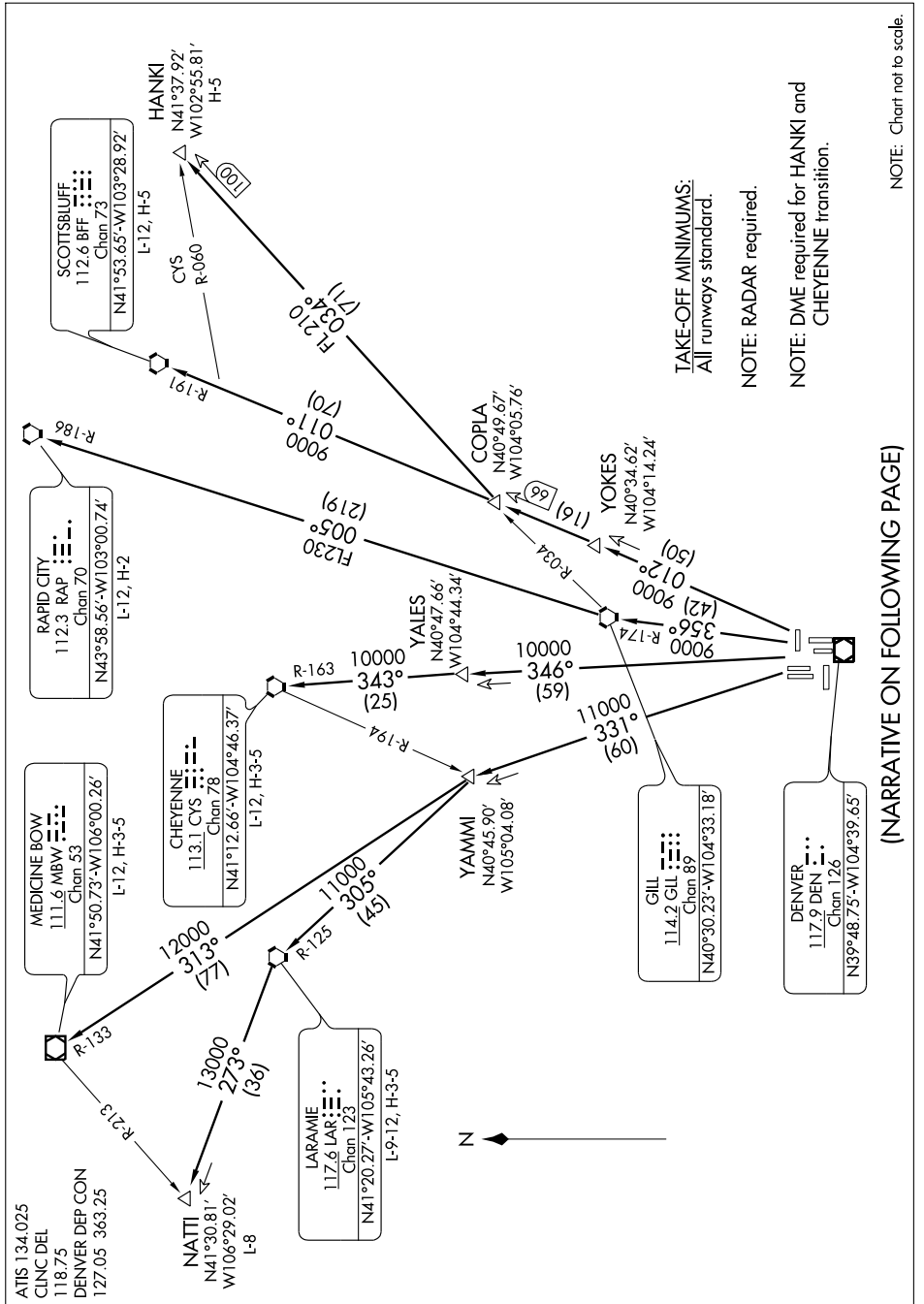
HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

YELLOWSTONE SIX DEPARTURE



YELLOWSTONE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for radar vectors to assigned transition. Maintain 10000 feet or **ATC assigned lower altitude**. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLO6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLO6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLO6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLO6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

NATTI TRANSITION (YELLO6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

RAPID CITY TRANSITION (YELLO6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

SCOTTSBLUFF TRANSITION (YELLO6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

TAKE-OFF OBSTACLE NOTES

RWY 8: Multiple trees beginning 115' from DER, 444' right of centerline, up to 100' AGL/5389' MSL.

RWY 16L: Tower 4722' from DER, 1359' left of centerline, 153' AGL/5473' MSL.

Antenna on OL tower 4746' from DER, 1358' left of centerline, 153' AGL/5473' MSL.

RWY 17L: Multiple trees beginning 247' from DER, 543' right of centerline, up to 100' AGL/5489' MSL.

RWY 17R: Multiple trees beginning 1457' from DER, 759' right of centerline, up to 100' AGL/5529' MSL.

RWY 25: Multiple trees beginning 303' from DER, 557' right of centerline, up to 100' AGL/5439' MSL.

RWY 34L: Multiple trees beginning 273' from DER, 537' right of centerline, up to 100' AGL/5399' MSL.

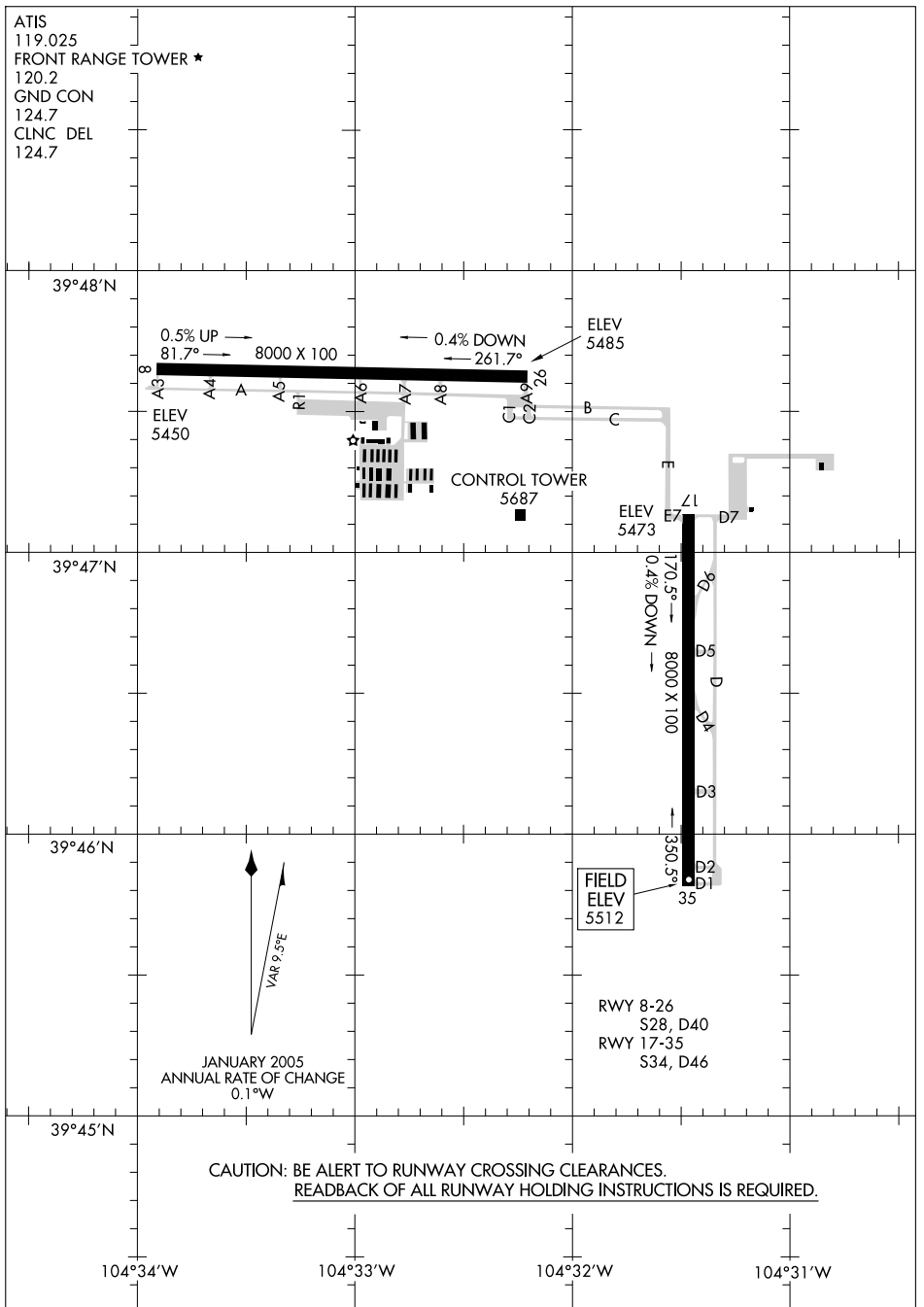
RWY 34R: Multiple trees beginning 471' from DER, 580' right of centerline, up to 100' AGL/5449' MSL.

RWY 35L: Terrain beginning 149' from DER, 34' right of centerline, up to 5414' MSL.

AIRPORT DIAGRAM

AL-6851 (FAA)

DENVER/FRONT RANGE (FTG)
DENVER, COLORADO

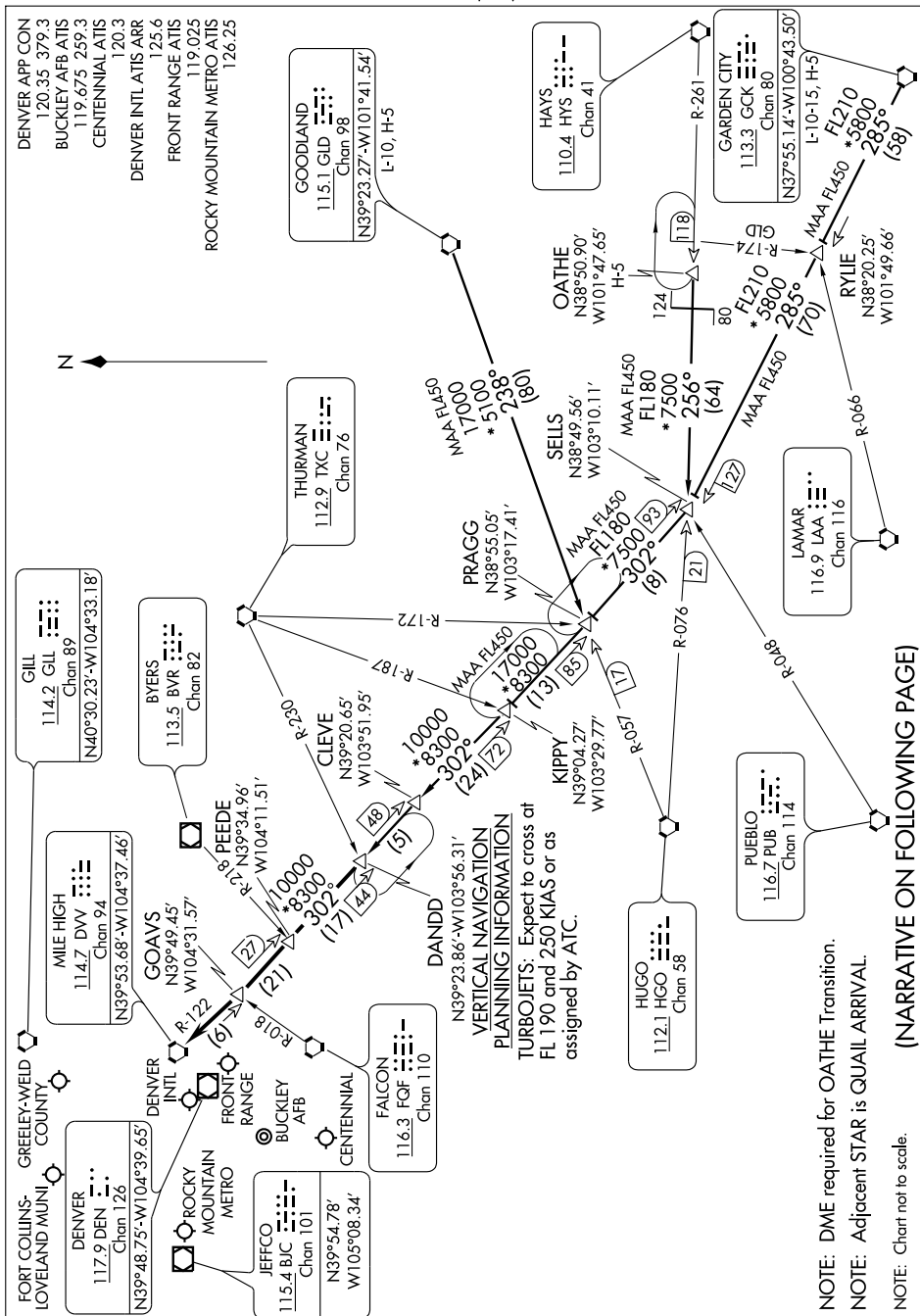


SW-1 14 JAN 2010 to 11 FEB 2010

DANDD FIVE ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

SW-1, 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

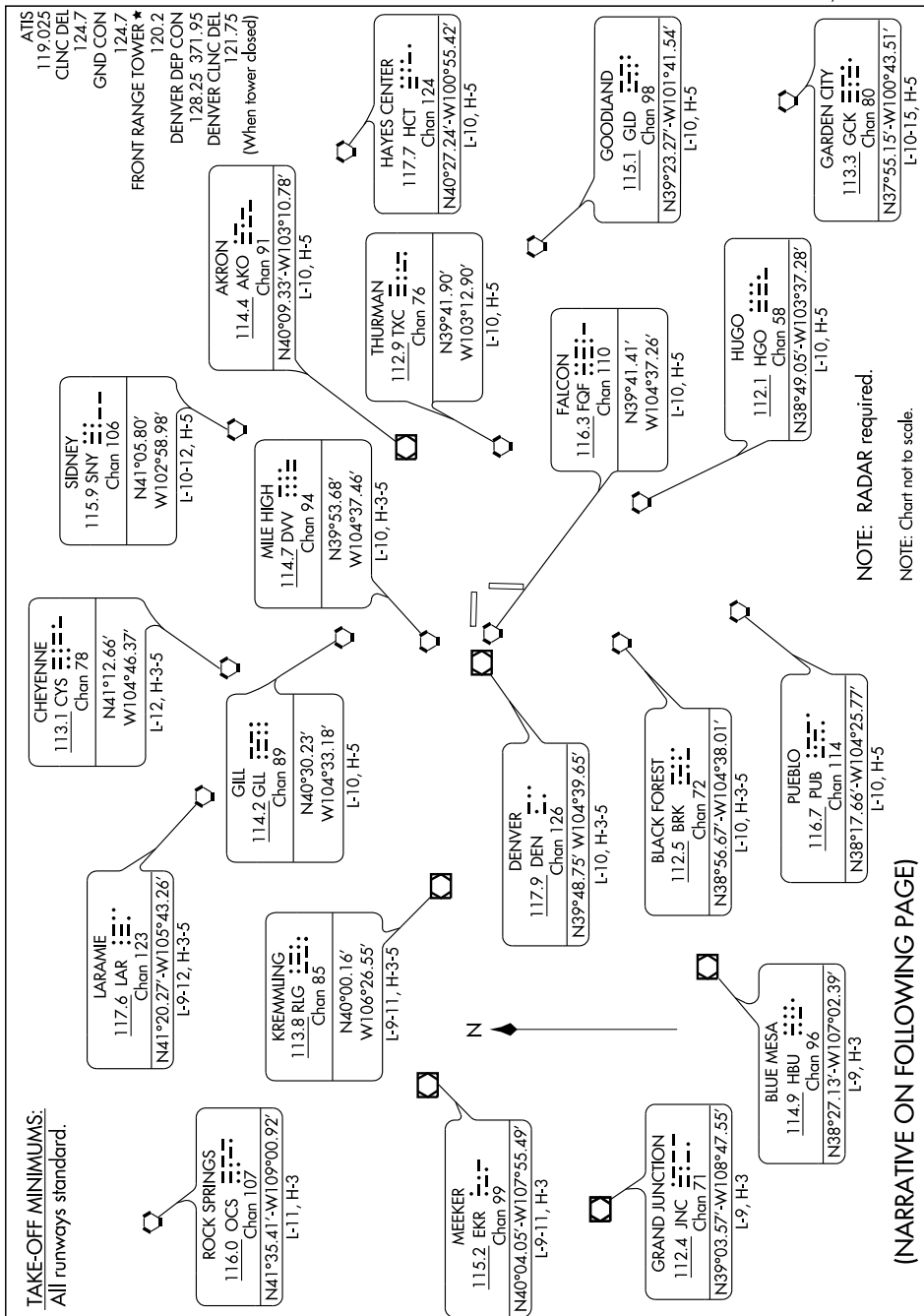
....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER FIVE DEPARTURE

SL-6851 (FAA)

DENVER/FRONT RANGE (FTG)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

SW-1. 14 JAN 2010 to 11 FEB 2010

DENVER FIVE DEPARTURE

SL-6851 (FAA)

DENVER/FRONT RANGE (FTG)
DENVER, COLORADO

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

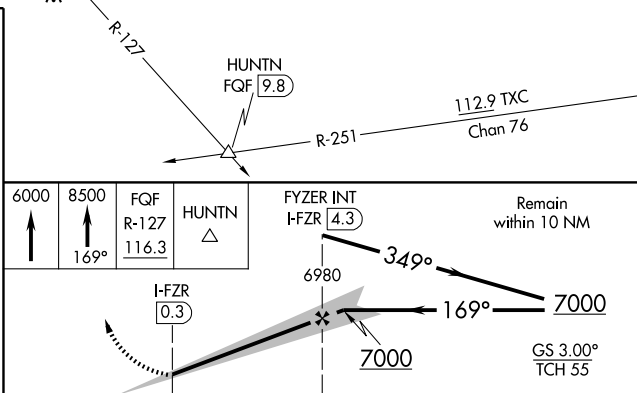
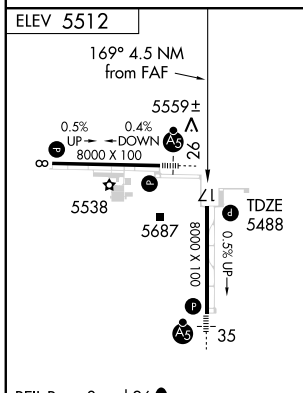
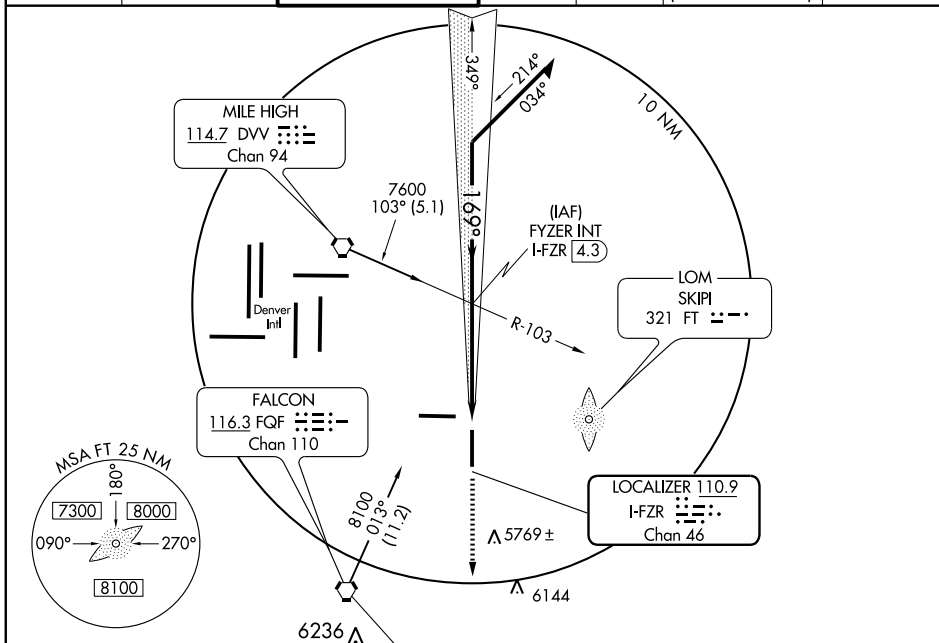
LOC/DME I-FZR 110.9 Chan 46	APP CRS 169°	Rwy Idg 8000 TDZE 5488 Apt Elev 5512
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ILS or LOC RWY 17
DENVER/FRONT RANGE (FTG)

T When local altimeter not received use Denver Intl
A_{NA} altimeter setting and increase all DH/MDAs 40 feet.

MISSED APPROACH: Climb to 6000, continue climbing to 8500 via heading 169° and FQF VORTAC R-127 to HUNTN Int.

ATIS 119.025	DENVER APP CON 128.25 371.95	FRONT RANGE TOWER★ 120.2 (CTAF) 0	GND CON 124.7	CLNC DEL 124.7	DENVER CLNC DEL 121.75 (When tower closed)	UNICOM 122.95
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REIL Rwy 8 and 26	0.5		4 NM					
HIRL Rwy 8-26	CATEGORY		A		B		C	
MIRL Rwy 17-35	S-ILS 17		5688-34		200 (200-34)			
FAF to MAP 4 NM	S-LOC 17		5820-1		332 (400-1)			
Knots	60	90	120	150	180			
Min:Sec	4:00	2:40	2:00	1:36	1:20			
	CIRCLING		5960-1		5980-1		5980-1½	
			448 (500-1)		468 (500-1)		468 (500-1½)	
							6080-2	
							568 (600-2)	

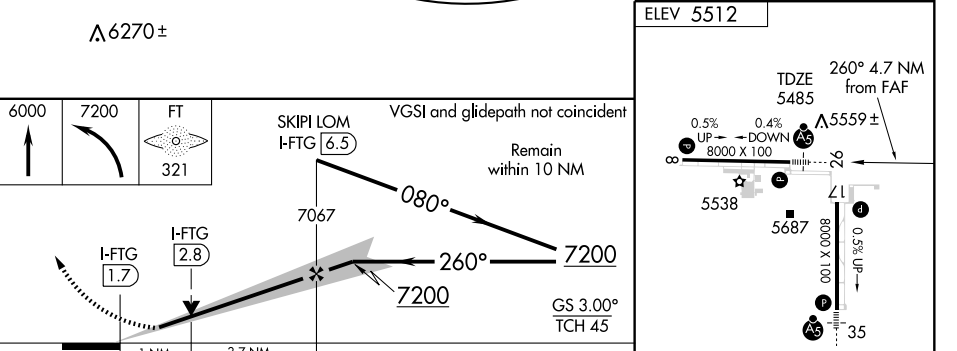
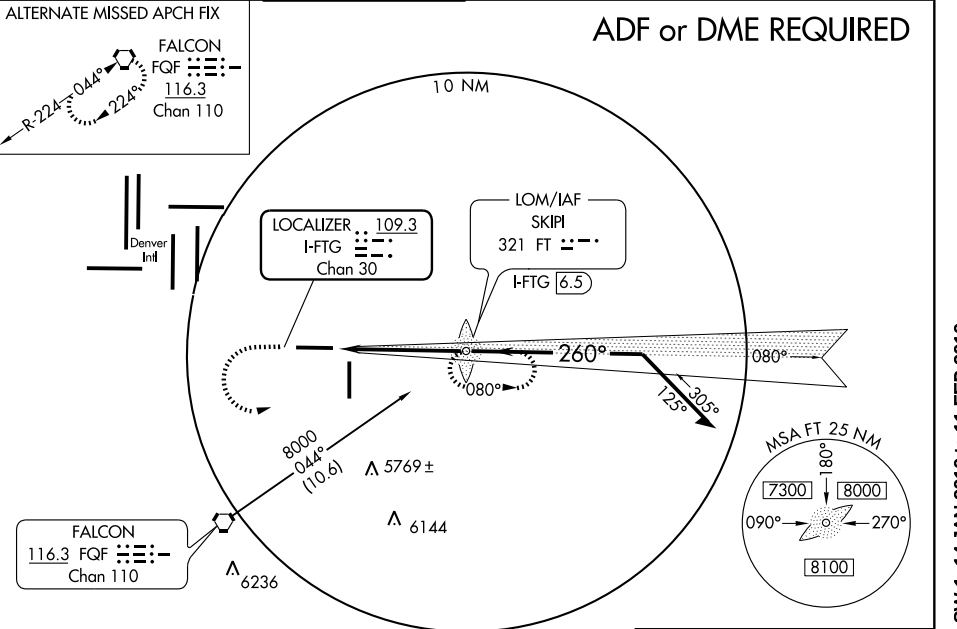
NA

When local altimeter setting not received use Denver Intl altimeter setting and increase all DA 29 feet and all MDA 40 feet, increase S-LOC visibility Cat C to ¾ mile. VDP NA when using Denver Intl altimeter setting. ADF required

MALSR

MISSED APPROACH: Climb to 6000 then climbing left turn to 7200 direct SKIPI LOM/ I-FTG 6.5 DME and hold.

ATIS 119.025	DENVER APP CON 128.25 371.95	FRONT RANGE TOWER★ 120.2 (CTAF) 1	GND CON 124.7	CLNC DEL 124.7	DENVER CLNC DEL 121.75 (When tower closed)	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 26	5685-½ 200 (200-½)			
S-LOC 26	5860-½ 375 (400-½)			5860-¾ 375 (400-¾)
CIRCLING	5960-1 448 (500-1)	5980-1 468 (500-1)	5980-1½ 468 (500-1½)	6080-2 568 (600-2)

REIL Rwy 8 and 26 1
HIRL Rwy 8-26 1
MIRL Rwy 17-35 1

FAF to MAP 4.7 NM

Knots

60 90 120 150 180

Min:Sec

4:42 3:08 2:21 1:53 1:34



NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER APP CON
120.35 379.3
BUCKLEY AFB ATIS
119.675 259.3
CENTENNIAL ATIS
120.3
DENVER INTL ATIS ARR
125.6
FRONT RANGE ATIS
119.025
ROCKY MOUNTAIN METRO ATIS
126.25

GILL
114.2 GLL ::::
Chan 89
N40°30.23'-W104°33.18'

FORT COLLINS-
LOVELAND MUNI 

 GREELEY-
WELD COUNTY

DENVER
117.9 DEN 
Chan 126
N39°48.75'-W104°

JEFFCO
115.4 BJC
Chap 101

HUUGE
N39°34.72'
W104°47.91'

PAYDD
N39°24.10'
W105°04.73'

FALCON
116.3 FQF :::: -
Chan 110
N39°41.41'
W104°37.26'

LARKS
N39°15.44'-W105°18.31'
VERTICAL NAVIGATION
PLANNING INFORMATION

TURBOJETS: Expect to cross at 17000 and 250 KIAS or as assigned by ATC.

RED TABLE
113.0 DBL 
Chan 77

BLUE MESA
114.9 HBU 
Chan 96

BLACK FOREST
12.5 BRK 
Chn 72

PAPPA
N38°29.61'
W106°28.70'

LOPEC
N38°05.56
W106°51.5
H-3

RATTLESNAKE
115.3 RSK 
Chan 100
6°44.90'-W108°05.93'
L-8, H-4

ON
1.75'
9.51'

ALAMOSA
113.9 ALS $\therefore \equiv \cdot \cdot$
Chan 86
7°20.95'-W 105°48.93'
L-8-9, H-4-5

PUEBLO
116.7 PUB 
Chan 114
N38°17.66'-W104°25.77'
L-10, H-5

NOTE: Adjacent STAR is POWDR ARRIVAL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

⚠

NA

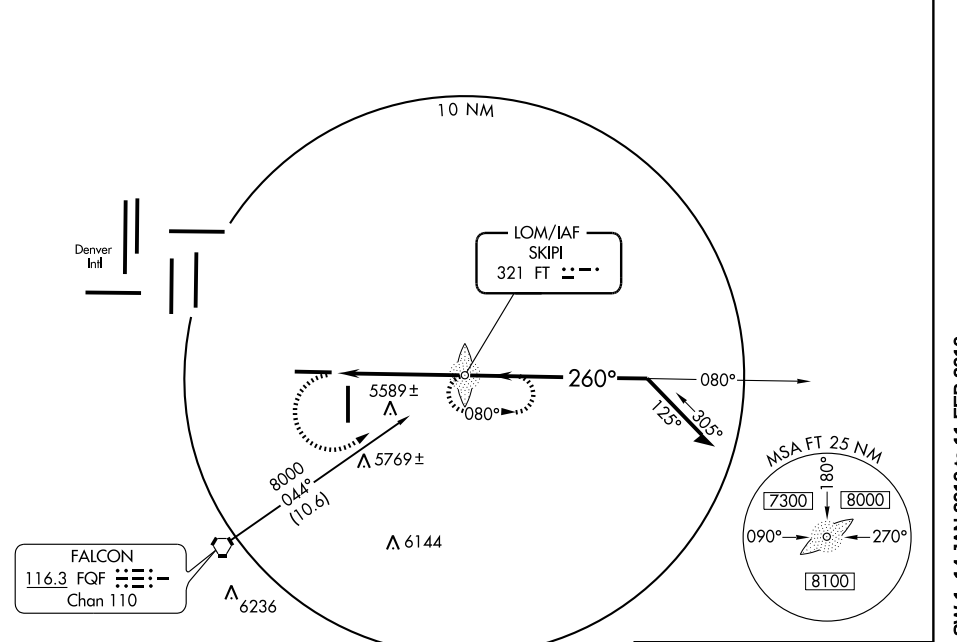
When local altimeter setting not received use Denver Intl altimeter setting and increase all MDA 40 feet, increase S-26 Cat D visibility to 1 1/4 .

MALS

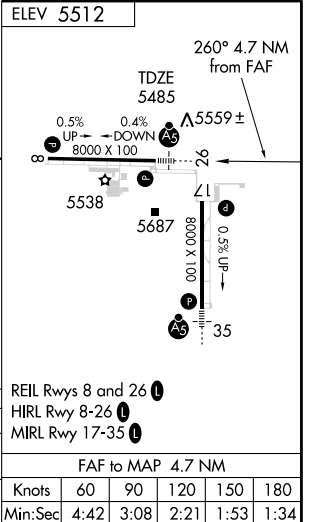
AS

MISSED APPROACH: Climbing left turn to 7200 direct FT LOM and hold.

ATIS 119.025	DENVER APP CON 128.25 371.95	FRONT RANGE TOWER★ 120.2 (CTAF) 0	GND CON 124.7	CLNC DEL 124.7	DENVER CLNC DEL 121.75 (When tower closed)	UNICOM 122.95
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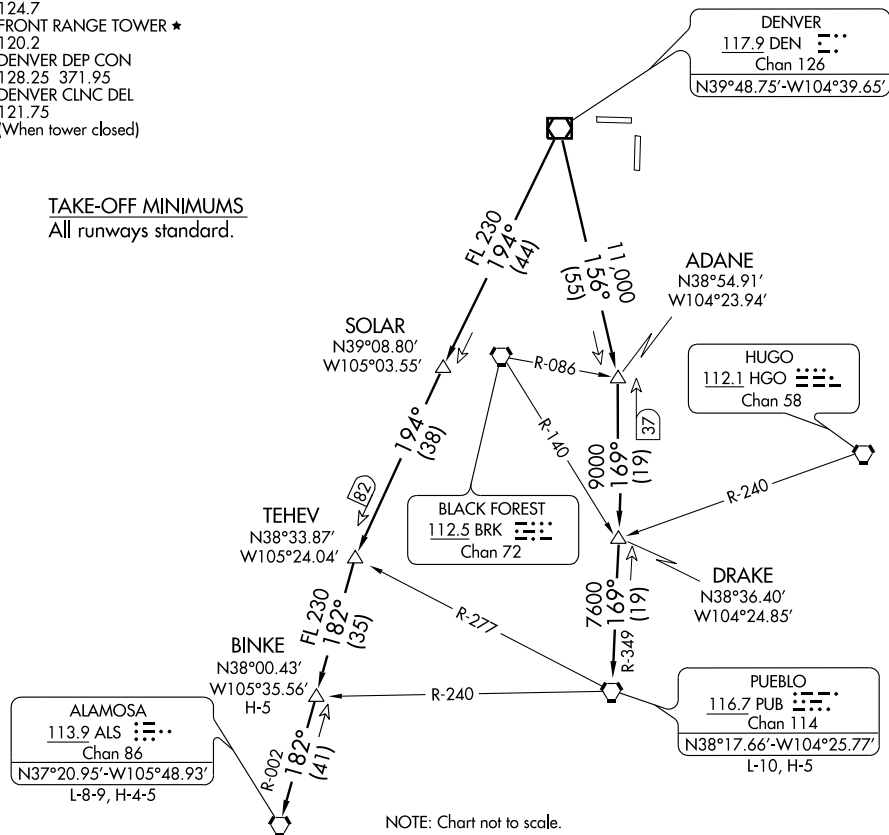


7200	FT	321			
VGSI and descent angles not coincident					
CATEGORY	A	B	C	D	
S-26	5900-3/4 415 (400-3/4)			5900-1 415 (400-1)	
CIRCLING	5960-1 448 (500-1)	5980-1 468 (500-1)	5980-1 1/2 468 (500-1 1/2)	6080-2 568 (600-2)	



ATIS
 119.025
 CLNC DEL
 124.7
 GND CON
 124.7
 FRONT RANGE TOWER ★
 120.2
 DENVER DEP CON
 128.25 371.95
 DENVER CLNC DEL
 121.75
 (When tower closed)

TAKE-OFF MINIMUMS
All runways standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

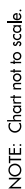
Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.





DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.



ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

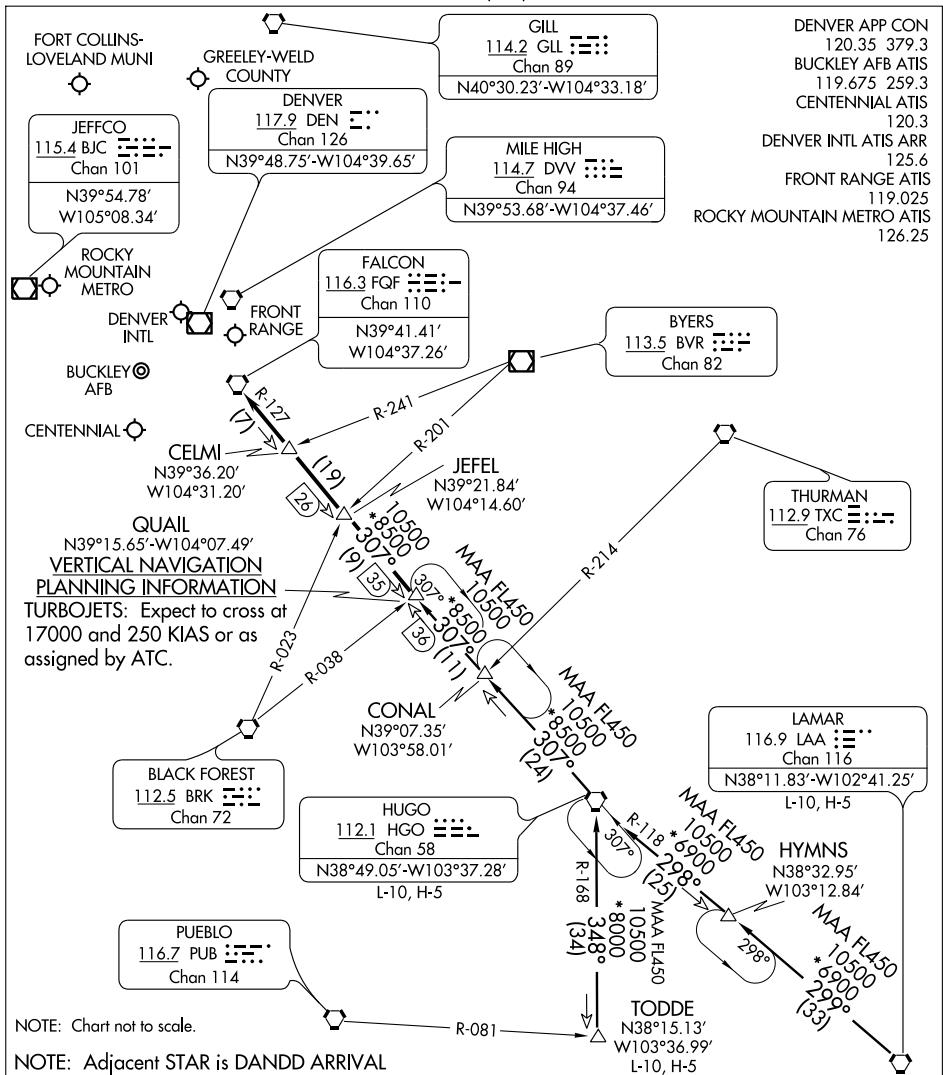
RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.

QUAIL SIX ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to QUAIL INT. Thence....

TODDE TRANSITION (TODDE.QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
 Expect radar vectors to the final approach course at or before FQF VORTAC.

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for ROCK SPRINGS TRANSITION for Changeover Point.

NOTE: Adjacent STAR is TOMSN ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

▼

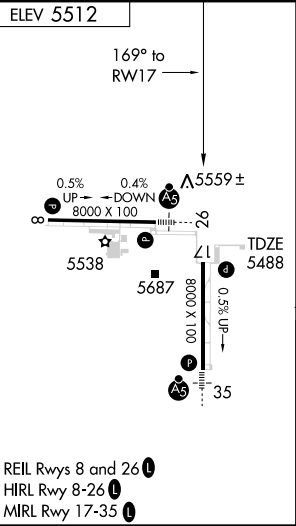
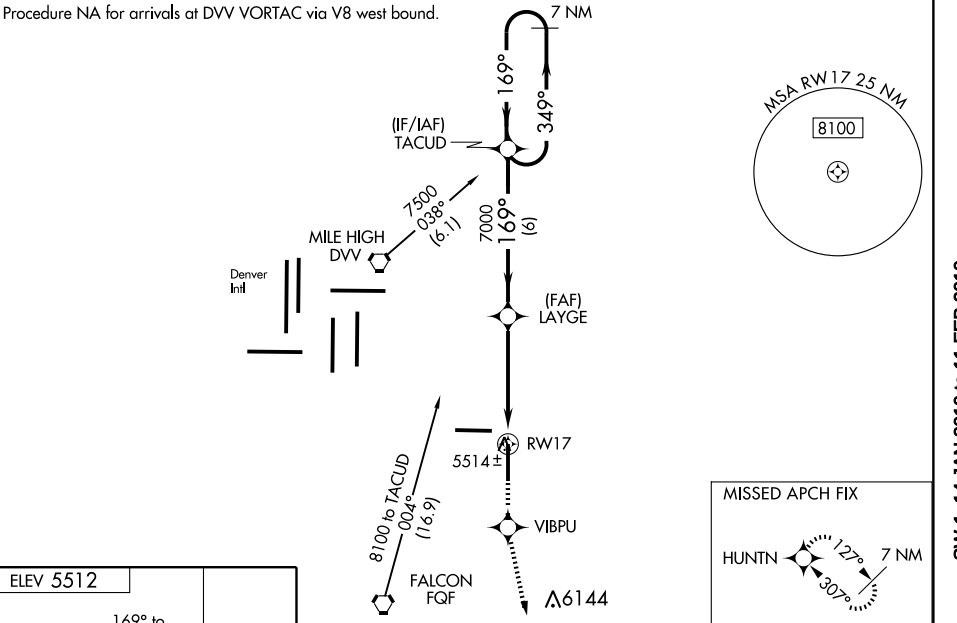
▲ NA

DME/DME RNP -0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 37°C (98°F). When local altimeter setting not received use Denver Intl altimeter setting and increase all DA 29 feet and all MDA 40 feet. Increase LNAV visibility Cat D to 1½ mile: Baro-VNAV and VDP NA when using Denver Intl altimeter setting.

MISSED APPROACH: Climb to 8500 direct VIBPU and via 157° track to HUNTN and hold.

ATIS 119.025	DENVER APP CON 128.25 371.95	FRONT RANGE TOWER★ 120.2 (CTAF) 0	GND CON 124.7	CLNC DEL 124.7	DENVER CLNC DEL 121.75 (When tower closed)	UNICOM 122.95
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Procedure NA for arrivals at FQF VORTAC via V160 southwest bound.
Procedure NA for arrivals at DVV VORTAC via V8 west bound.



7 NM Holding Pattern				8500	VIBPU	157° track	HUNTN
TACUD				LAYGE			
7000 ← 349° 169° → 7000				1.2 NM to *RW17			
°GS 3.00 TCH 50				RW17			
6 NM				3.4 NM			
1.2				LNNAV only*			
CATEGORY	A	B	C	D			
LPV DA	5738-1		250 (300-1)				
LNAV/VNAV DA	5839-1¼		351 (400-1¼)				
LNAV MDA	5900-1	412 (500-1)	5900-1¼	5900-1¼	412 (500-1¼)	6080-2	412 (500-1¼)
CIRCLING	5960-1 448 (500-1)	5980-1 468 (500-1)	5980-1½ 468 (500-1½)	5980-1½ 468 (500-1½)	6080-2	568 (600-2)	

WAAS CH 93909 W26A	APP CRS 260°	Rwy Idg TDZE Apt Elev 8000 5485 5512
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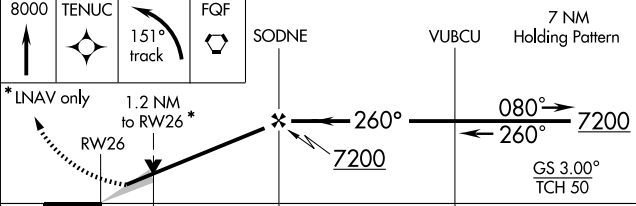
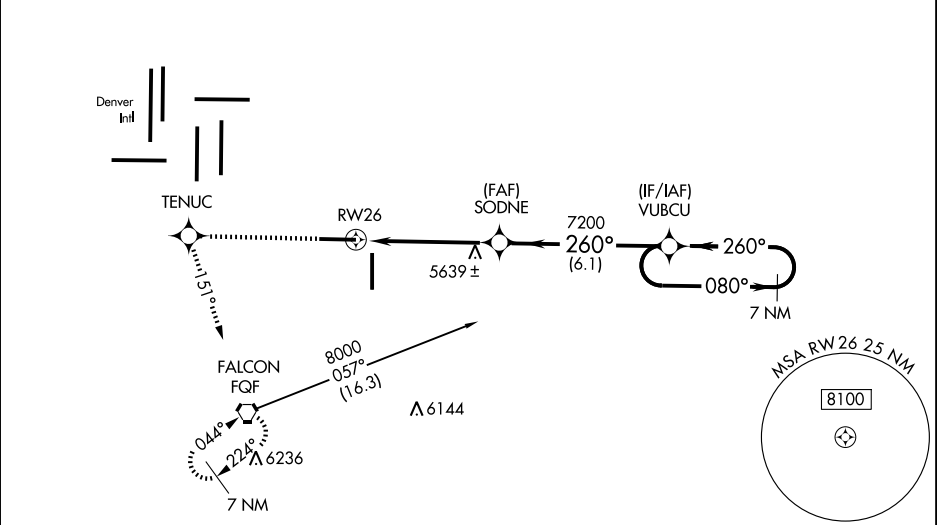
RNAV (GPS) RWY 26

DENVER/ FRONT RANGE (FTG)

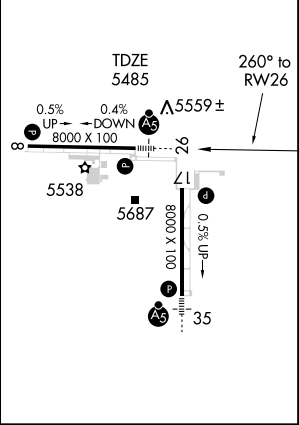
NA DME/DME RNP -0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 38° C (100°F). When local altimeter setting not received, use Denver Intl altimeter setting and increase all DA 29 feet and all MDA 40 feet, increase LNAV/VNAV visibility Cat A, B, C to ¾ mile. For inoperative MALSR increase LNAV/VNAV visibility Cat D to 1 mile, LNAV visibility Cat D to 1 ¼ mile. For inoperative MALSR when using Denver Intl altimeter setting increase LPV visibility all Cats to 1 mile, LNAV/VNAV visibility all Cats to 1 ¼ mile. Baro-VNAV and VDP NA when using Denver Intl altimeter setting.

MALSR
MISSED APPROACH: Climb to 8000 direct TENUC and left turn via 151° track to FQF VORTAC and hold. Continue climb-in-hold to 8000.

ATIS 119.025	DENVER APP CON 128.25 371.95	FRONT RANGE TOWER★ 120.2(CTAF) 0	GND CON 124.7	CLNC DEL 124.7	DENVER CLNC DEL 121.75 (When tower closed)	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	5735-½ 250 (300-½)			
LNAV/ VNAV DA	5786-½ 301 (300-½)		5786-¾ 301 (300-¾)	
LNAV MDA	5900-½ 415 (500-½)		5900-¾ 415 (500-¾)	
CIRCLING	5960-1 448 (500-1)	5980-1 468 (500-1)	5980-½ 468 (500-½)	6080-2 568 (600-2)

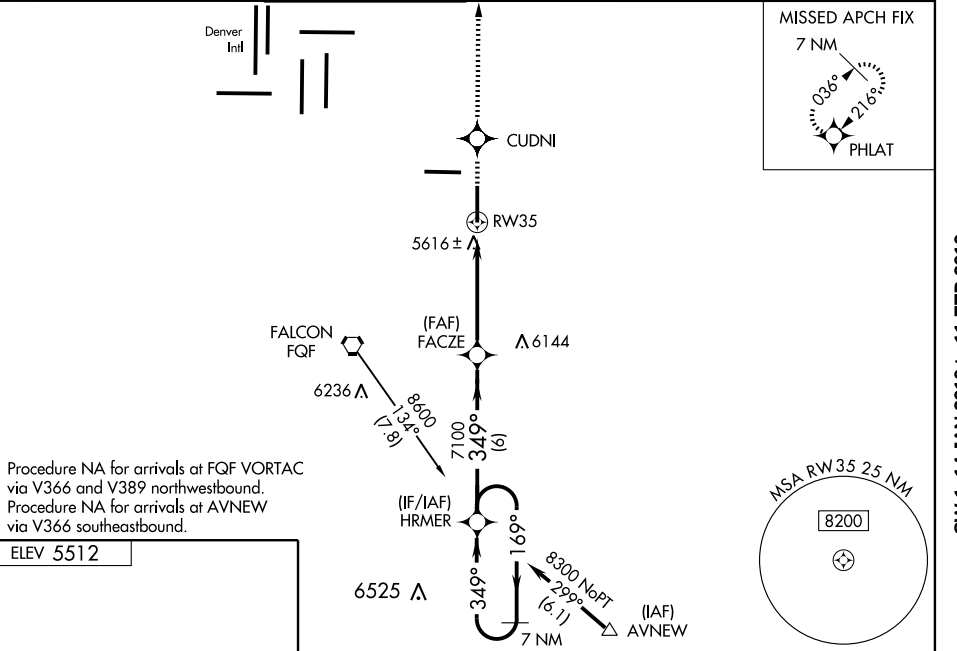


WAAS CH 93809 W35A	APP CRS 349°	Rwy Idg TDZE Apt Elev	8000 5512 5512
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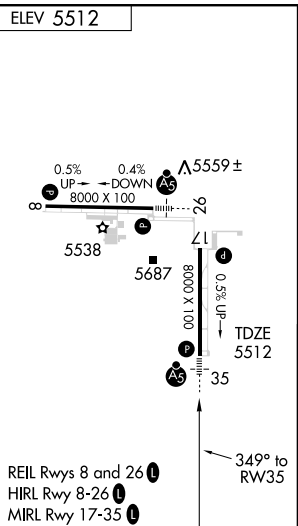
NA DME/DME RNP -0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 37°C (98°F). When local altimeter setting not received, use Denver Intl altimeter setting and increase all DA 29 feet and all MDA 40 feet, increase LPV all Cats visibility to ¾ mile, LNAV/VNAV all Cats visibility to 1 mile, LNAV Cat C visibility to 1½ mile, Cat D visibility to 1¾ mile. For inoperative MALSR increase LPV all Cats visibility to 1 mile. For inoperative MALSR when using Denver Intl altimeter setting increase LPV all Cats visibility to 1¼ mile. Baro-VNAV and VDP NA when using Denver Intl altimeter setting.

MALSR MISSED APPROACH: Climb to 8000 direct CUDNI then via 350° track to PHLAT and hold.

ATIS 119.025	DENVER APP CON 128.25 371.95	FRONT RANGE TOWER* 120.2 (CTAF) 0	GND CON 124.7	CLNC DEL 124.7	DENVER CLNC DEL 121.75 (When tower closed)	UNICOM 122.95
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Procedure NA for arrivals at FQF VORTAC via V366 and V389 northwestbound.
Procedure NA for arrivals at AVNEW via V366 southeastbound.



8000	CUDNI	350° track	PHLAT	HRMER	7 NM Holding Pattern
* NNAV only 1.9 NM* to RW35					
RW35 1.9 NM 2.9 NM 6 NM					
CATEGORY	A	B	C	D	
LPV DA	5828-1/2		316 (400-1/2)		
LNAV/VNAV DA	5891-3/4		379 (400-3/4)		
LNAV MDA	6180-1/2 668 (700-1/2)		6180-1/4 668 (700-1/4)	6180-1/2 668 (700-1/2)	
CIRCLING	6180-1 668 (700-1)		6180-1/4 668 (700-1/4)	6180-2 668 (700-2)	

SW-1, 14 JAN 2010 to 11 FEB 2010

ROCKIES SEVEN DEPARTURE

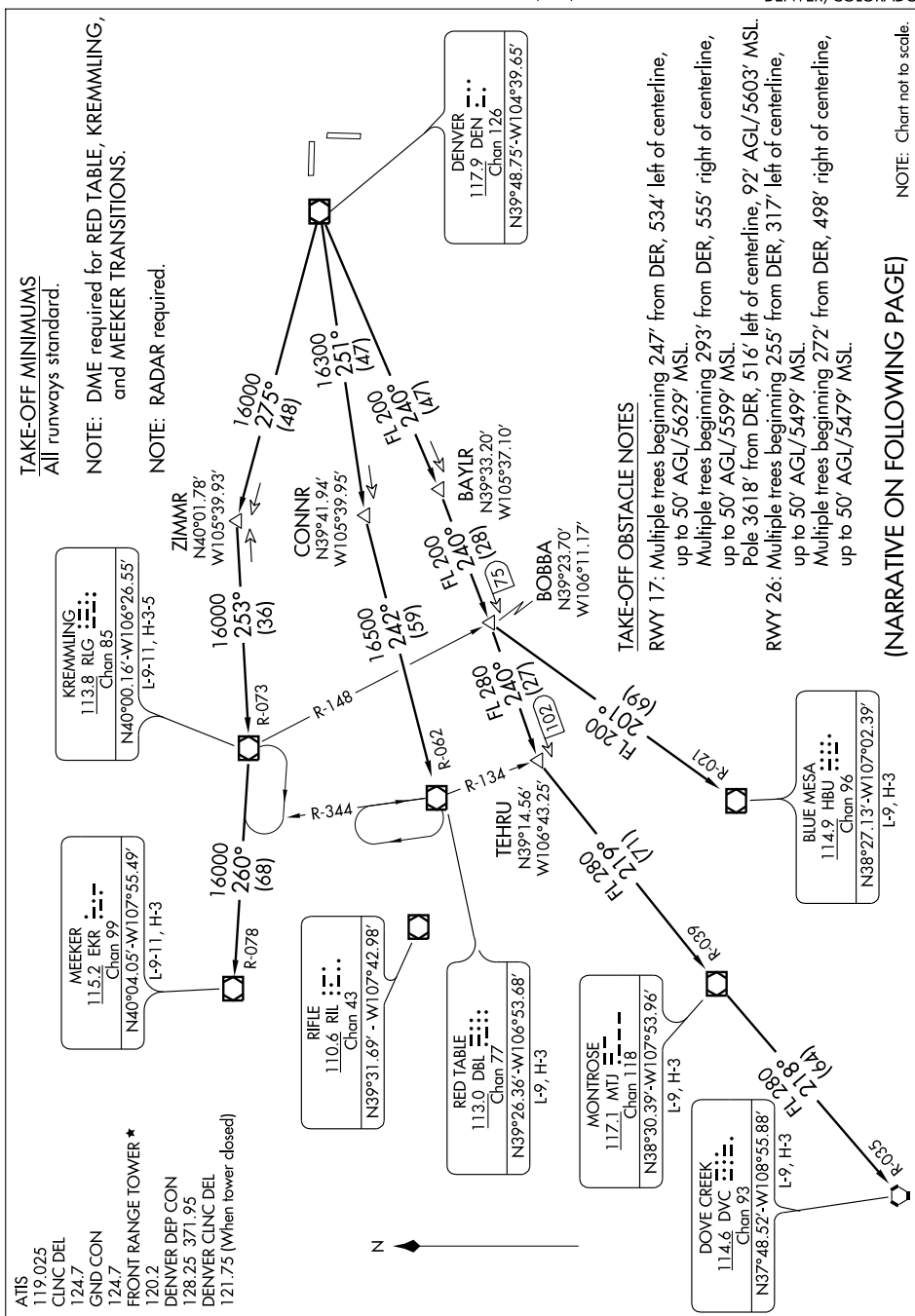
SL-6851 (FAA)

DENVER/FRONT RANGE (FTG)
DENVER, COLORADO

TAKE-OFF MINIMUMS
All runways standard.

NOTE: DME required for RED TABLE, KREMLING, and MEEKER TRANSITIONS.

NOTE: RADAR required.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-1. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

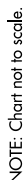
DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.



ARRIVAL DESCRIPTION

GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.



ARRIVAL DESCRIPTION

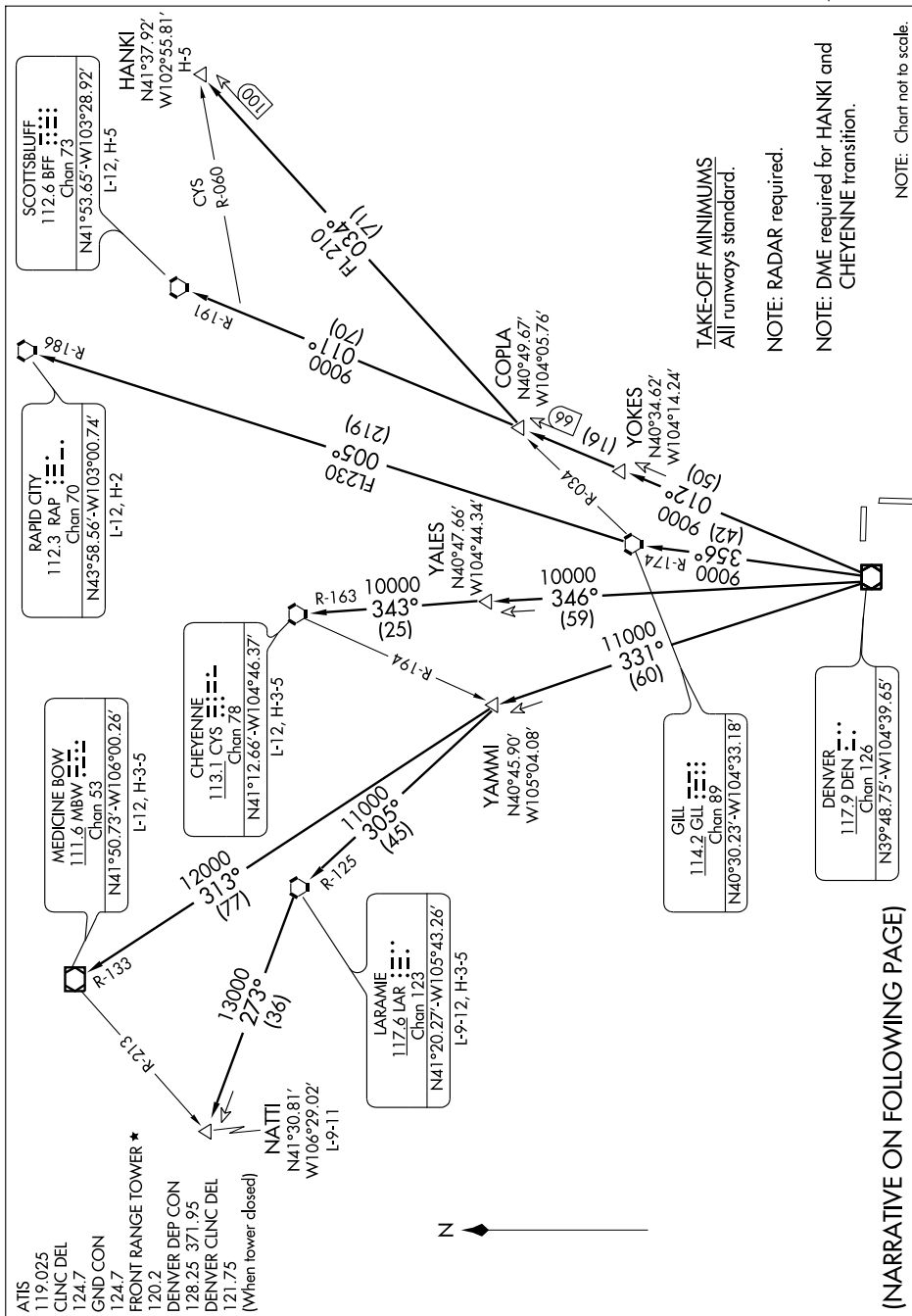
HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

YELLOWSTONE SIX DEPARTURE



YELLOWSTONE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLO6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLO6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLO6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLO6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

NATTI TRANSITION (YELLO6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

RAPID CITY TRANSITION (YELLO6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

SCOTTSBLUFF TRANSITION (YELLO6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

TAKE-OFF OBSTACLE NOTES

- RWY 17: Multiple trees beginning 247' from DER, 534' left of centerline, up to 50' AGL/5629' MSL.
Multiple trees beginning 293' from DER, 555' right of centerline, up to 50' AGL/5599' MSL.
Pole 3618' from DER, 516' left of centerline, 92' AGL/5603' MSL.
- RWY 26: Multiple trees beginning 255' from DER, 317' left of centerline, up to 50' AGL/5499' MSL.
Multiple trees beginning 272' from DER, 498' right of centerline, up to 50' AGL/5479' MSL.

LOC I-DRO	APP CRS	Rwy Idg	9201
109.1	027°	TDZE	6638
		Apt Elev	6685

DME from DRO VOR/DME.

Simultaneous reception of I-DRO and DRO VOR/DME required.

MALSR

MISSED APPROACH:

Climb to 7500 then climbing right turn to 10000 via heading 140° and DRO VOR/DME R-120 to SOVDE/14 DME and hold. Continue climb-in-hold to 10000.

ASOS 120.625	DENVER CENTER 118.575 348.7	UNICOM 122.8 (CTAF) 0
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7809 Δ

Δ 8385

Δ 9151

7800 Δ

DME REQUIRED

Procedure NA for arrivals at RSK VORTAC via airway radials 333 CW 072.

MSA DRO 2.5 NM

15100

070° $\rightarrow$ $\square$ $\leftarrow$ 275°

10000

DURANGO
108.2 DRO $\square$
Chan 19

(IAF) FIMGA DRO 14

8366

R-272

6903 $\pm$ Δ

6808 $\pm$ Δ

LIVBE DRO 2.8

6819 $\pm$ Δ

10000 to JUBEP 204° (7.5)

(IAF) JUBEP DRO 7.5

10000 NoPT

1000 NoPT DRO 14 Arc

IR-212

252°

072°

10000 NoPT to HINDY 018° (15.6)

HINDY DRO 14

(IF) RATTLESNAKE 115.3 RSK Chan 100

10 NM DRO 14 Arc

R-096

8551 Δ

10000 NoPT to HINDY DRO 14

(IAF) COKRI DRO 14

R-120

120°

300°

(IAF) SOVDE DRO 14

ELEV 6685

REIL Rwy 21 0

HIRL Rwy 3-21 0

7602 Δ

6702 Δ

0.7% DOWN

9201 X 150

0.8% UP

027° 6.6 NM from FAF

Remain within 10 NM

JUBEP DRO 7.5

7500

10000

DRO R-120 108.2

SOVDE DRO 14

*LOC only

9300

207°

027°

GS 3.00° TCH 55

8800

7260°

4.7 NM

1.9 NM

LIVBE DRO 2.8

DRO 1

CATEGORY	A	B	C	D
S-ILS 3	6838-½ 200 (200-½)			
S-LOC 3	7080-½ 442 (400-½)	7080-¾ 442 (400-¾)		7080-1 442 (400-1)
CIRCLING	7180-1 495 (500-1)	7200-1 515 (600-1)	7220-1½ 535 (600-1½)	7260-2 575 (600-2)

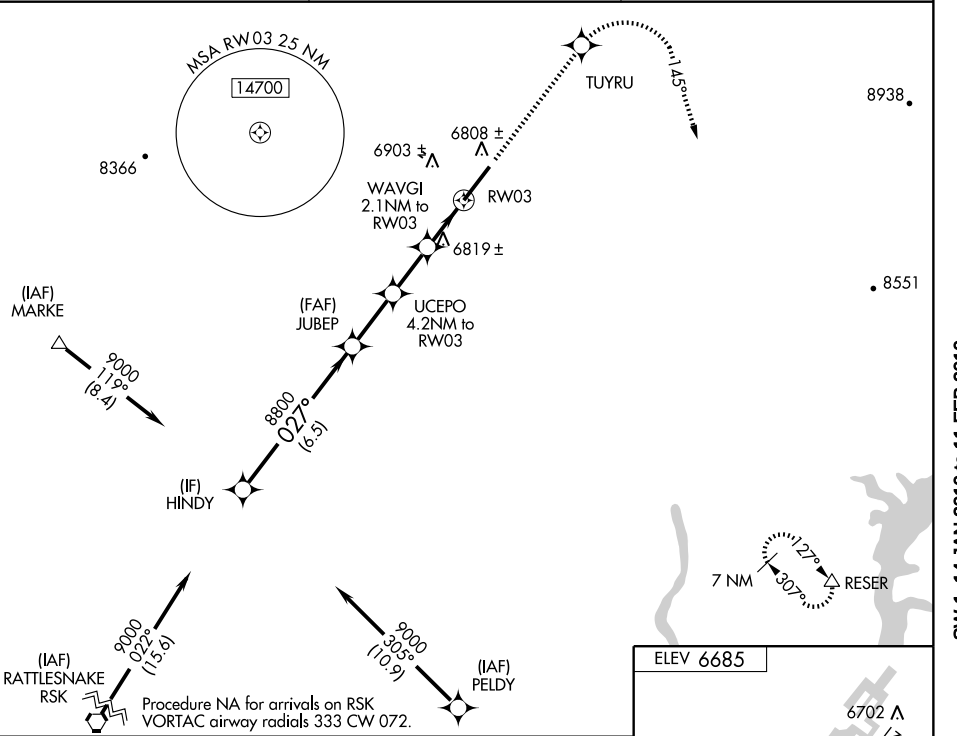
SW-1. 14 JAN 2010 to 11 FEB 2010

For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (96°F).
DME/DME RNP-0.3 NA.

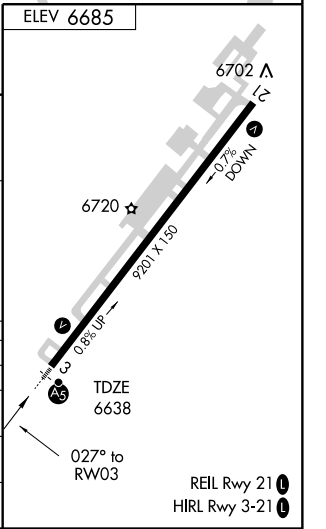
MALSR

MISSED APPROACH: Climb to 9500 direct TUYRU then climbing right turn via 145° track to RESER and hold.

ASOS 120.625	DENVER CENTER 118.575 348.7	UNICOM 122.8 (CTAF) 1
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HINDY 9000 Procedure Turn NA GS 3.00° TCH 55		JUBEP 8020*		UCEPO 4.2NM to RW03 7340*		WAVGI 2.1NM to RW03 1.3NM to RW03*		9500 TUYRU 145° track RESER	
027° 8800		6.5 NM		2.4 NM		2.1 NM		0.8 NM 1.3 NM	
CATEGORY	A		B		C		D		
LPV DA	6838-½ 200 (200-½)								
LNNAV/ VNAV DA	6980-¾ 342 (300-¾)								
LNNAV MDA	7080-½ 442 (400-½)				7080-¾ 442 (400-¾)		7080-1 442 (400-1)		
CIRCLING	7180-1 495 (500-1)		7200-1 515 (600-1)		7220-1 535 (600-1½)		7260-2 575 (600-2)		



VOR/DME DRO <u>108.2</u> Chan 19	APP CRS 030°	Rwy Idg 9201 TDZE 6639 Apt Elev 6685
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VOR/DME RWY 3
DURANGO-LA PLATA COUNTY (DRO)

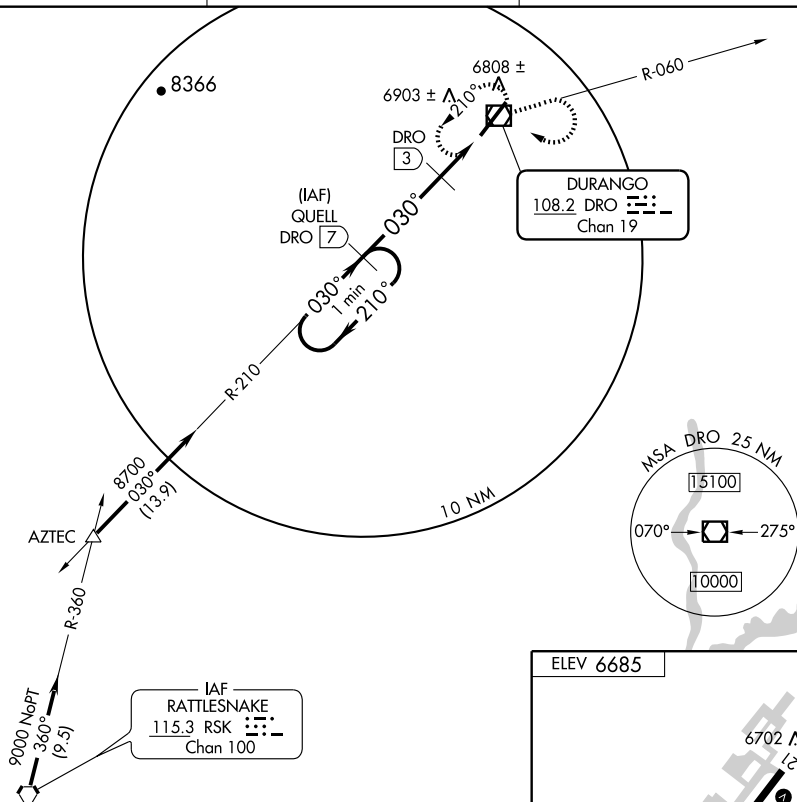
T Cat. D S-3 visibility increased ¼ mile for inoperative
A MALSR.



MISSED APPROACH: Climb on R-060 to 7500, then climbing right turn to 10,000 direct DRO VOR/DME and hold.

ASOS
120.625

DENVER CENTER
118,575 348.7

UNICOM
122.8 (CTAF) **L**

One Minute Holding Pattern

QUELL
DRO 7

7500

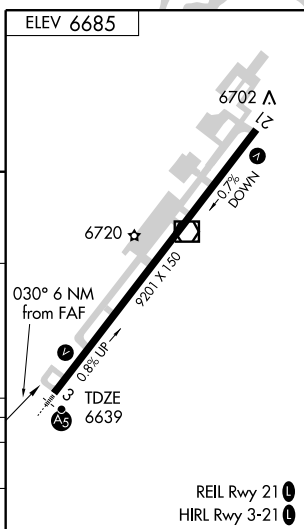
10000

DRO

$$\frac{8700}{\frac{210^\circ}{030^\circ}}$$
$$\frac{3.17^\circ}{\text{TCH } 52}$$
DRO
3

DRO

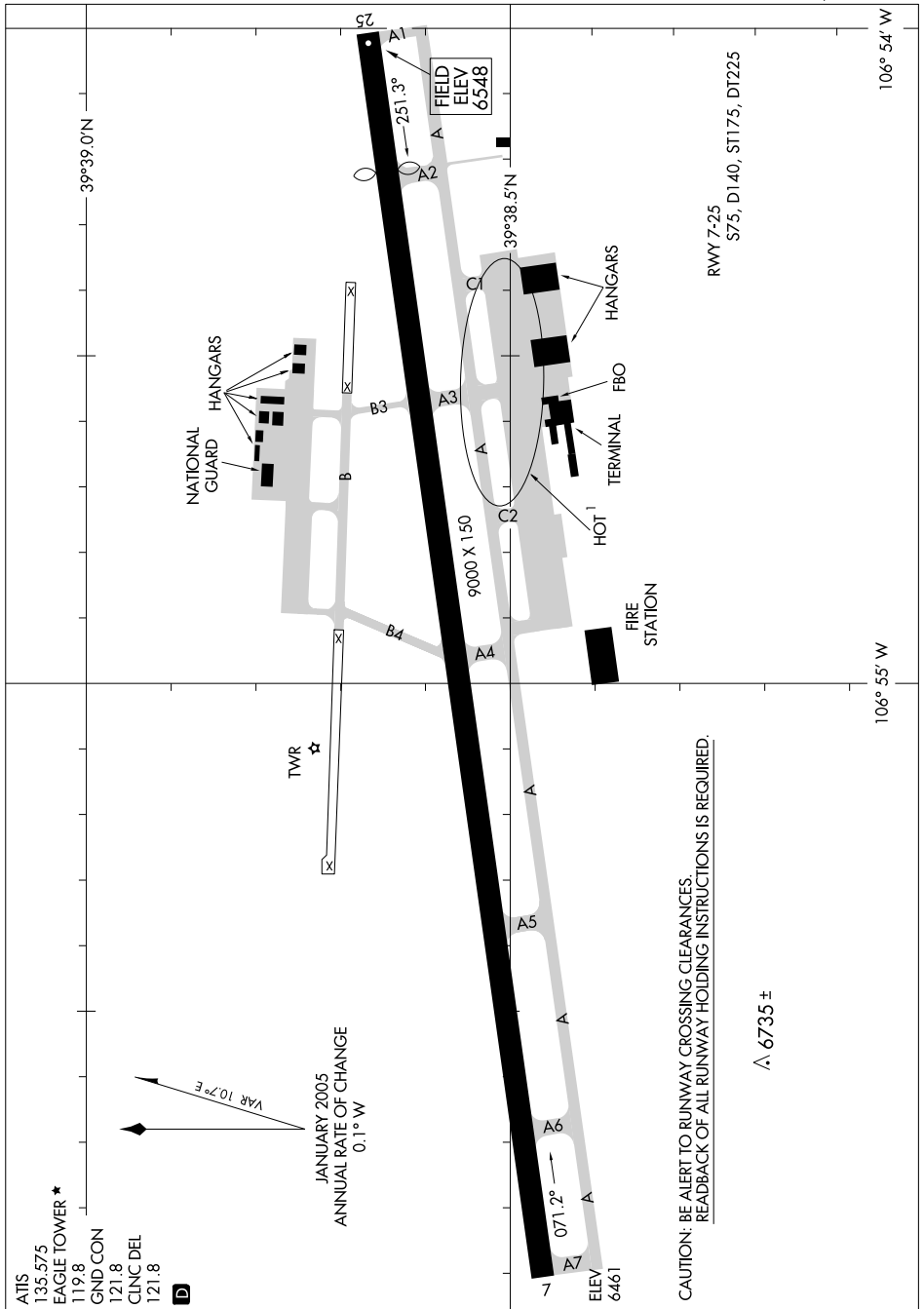
CATEGORY	A	B	C	D
S-3	7020-1/2 381 (400-1/2)			7020-1 381 (400-1)
CIRCLING	7180-1 495 (500-1)	7200-1 515 (600-1)	7220-1 1/2 535 (600-1 1/2)	7260-2 575 (600-2)



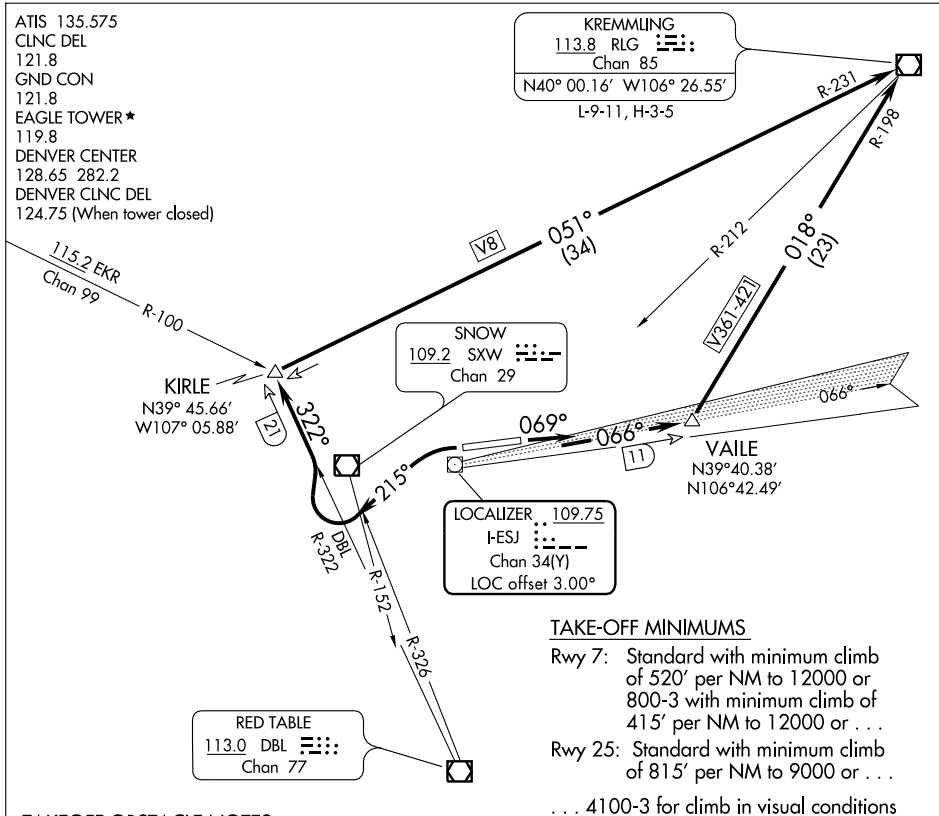
AIRPORT DIAGRAM

AL-6403 (FAA)

EAGLE COUNTY RGNL (EGE)
EAGLE, COLORADO



GYPSUM FOUR DEPARTURE (OBSTACLE)



TAKEOFF OBSTACLE NOTES

- Rwy 7: Windsock 99' from DER, 352' left of centerline, 12' AGL/6552' MSL.
OL on tower 2.2 NM from DER, 1688' right of centerline, 57' AGL/7057' MSL.
Trees beginning 1.1 NM from DER, 1945' right of centerline, up to 18' AGL/7017' MSL.
Tree 2.2 NM from DER, 3227' right of centerline, 27' AGL/7252' MSL.
- Rwy 25: Multiple trees beginning 1.6 NM from DER, 233' left of centerline, up to 15' AGL/7694' MSL.
Pole 2 NM from DER, 111' left of centerline, 14' AGL/7333' MSL.
Multiple trees beginning 1.4 NM from DER, 795' right of centerline, up to 16' AGL/7615' MSL.
Multiple poles, tank, and OL on tower beginning 1.4 NM from DER, 77' right of centerline, up to 37' AGL/7716' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb heading 069° and I-ESJ northeast course to VAILE INT/I-ESJ 11 DME then turn left via RLG R-198 to RLG VOR/DME or ...

TAKE-OFF RUNWAY 25: Climbing left turn heading 215°, upon crossing SXW R-152 or DBL R-326 turn right via DBL R-322 to KIRLE INT/DBL 21 DME then turn right via RLG R-231 to RLG VOR/DME or ...

... Climb in visual conditions to cross Eagle County Rgnl Airport northeast bound at or above 10500, then via RLG R-212 to RLG VOR/DME.

LOC/DME I-ESJ 109.75 Chan 34 (Y)	APP CRS 246°	Rwy Idg TDZE Apt Elev 8000 6540 6540
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LDA/DME RWY 25

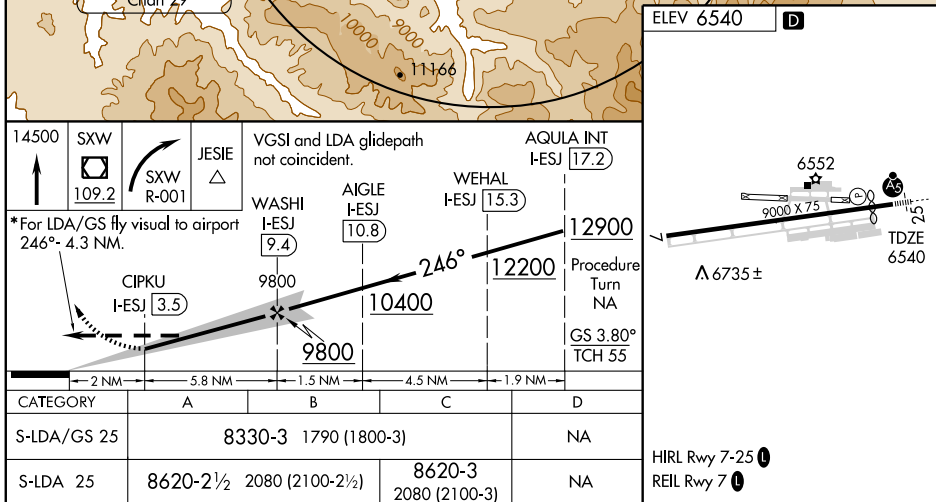
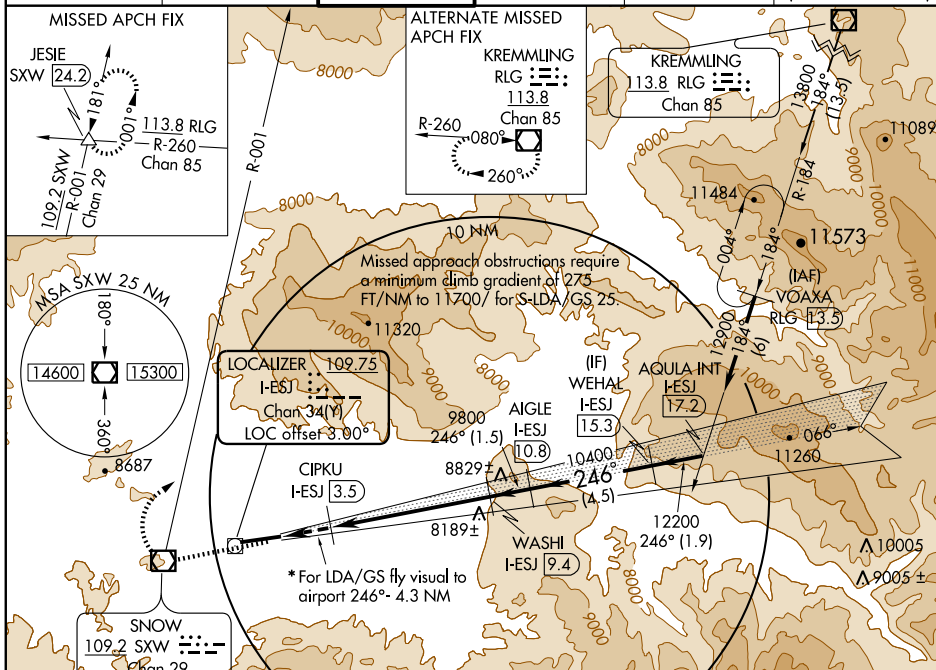
EAGLE COUNTY RGNL (EGE)

- ▼** Inoperative table does not apply.
▲ At night increase LDA/GS visibility to 5 miles.
 * Fly visual to airport authorized during day only.



MISSED APPROACH: Climb to 14500 direct SXW VOR/DME and climbing right turn via SXW R-001 to JESIE INT/SXW 24.2 DME and hold.

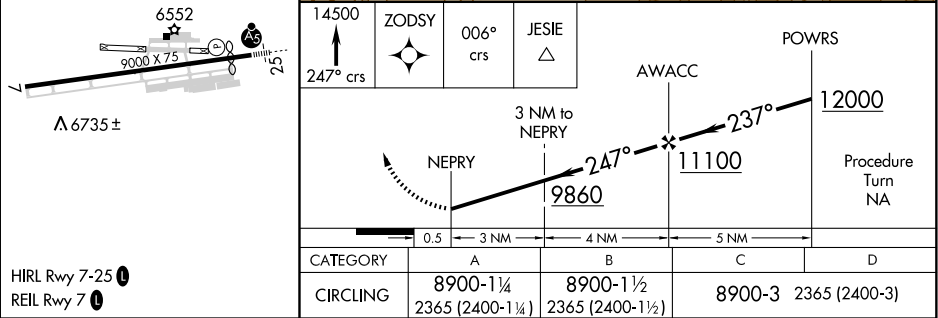
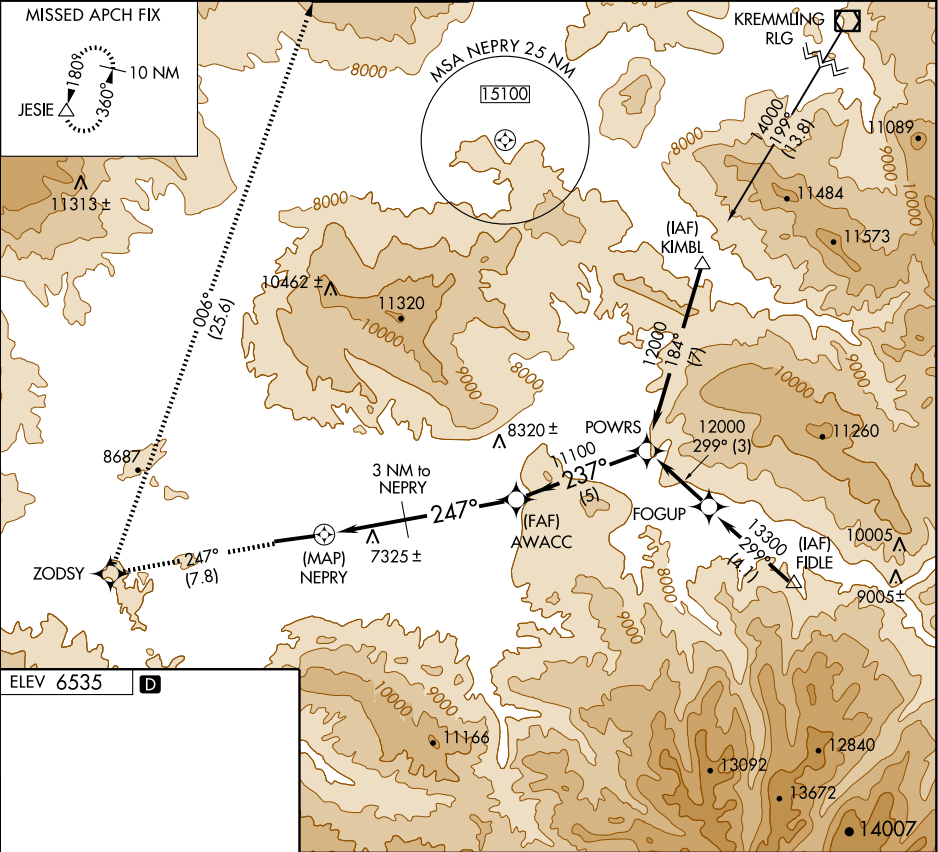
ATIS 135.575	DENVER CENTER 128.65 282.2	EAGLE TOWER★ 119.8 (CTAF) 1	GND CON 121.8	CLNC DEL 121.8	DENVER CLNC DEL 124.75 (When tower closed)
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APP CRS	Rwy Idg	N/A
247°	TDZE	N/A
	Apt Elev	6535

RNAV (GPS) -D
EAGLE COUNTY RGNL (EGE)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 14500 via 247° course to ZODSY WP, then via 006° course to JESIE WP and hold.				
NA	Circling south of Rwy 7-25 not authorized for Cat. C and D at night.				
ATIS 135.575	DENVER CENTER 128.65 282.2	EAGLE TOWER★ 119.8 (CTAF)	GND CON 121.8	CLNC DEL 121.8	DENVER CLNC DEL 124.75 (When tower closed)

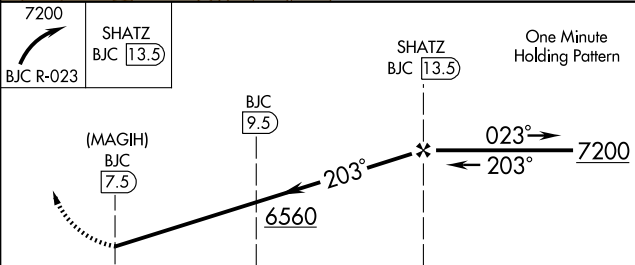
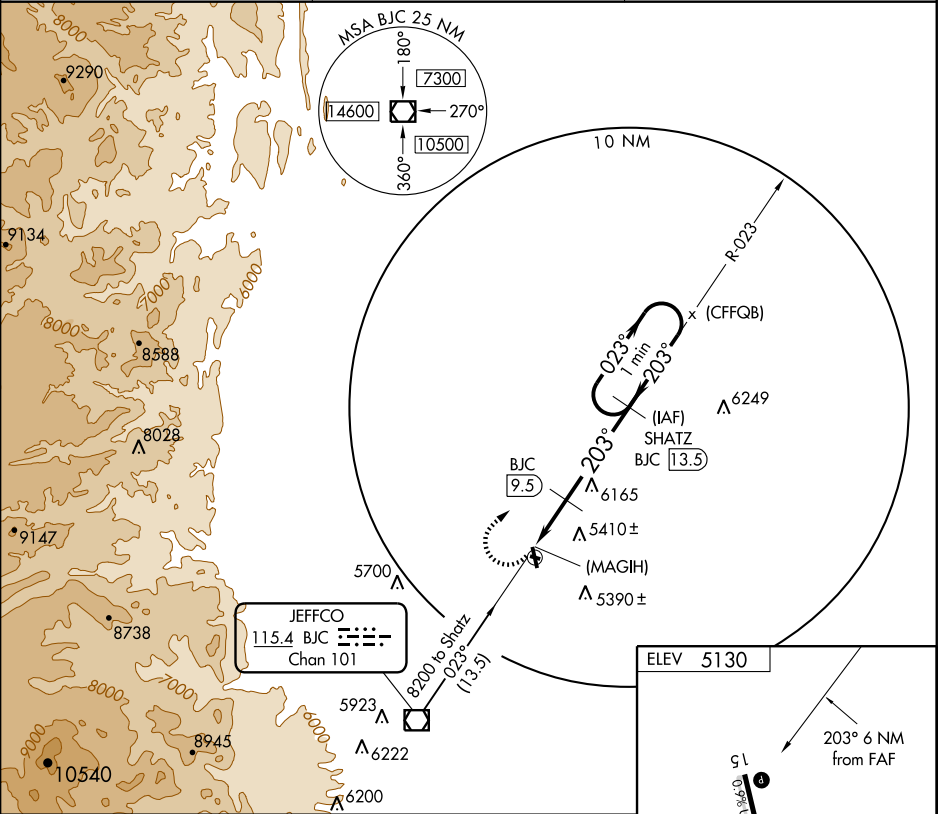


VOR/DME BJC	APP CRS	Rwy Idg	N/A
115.4	203°	TDZE	N/A
Chan 101		Apt Elev	5130

VOR/DME or GPS-A
ERIE MUNI (EIK)

▼ ▲ NA	Use Denver Intl altimeter setting.	MISSED APPROACH: Climbing right turn to 7200 via BJC R-023 to SHATZ/13.5 DME and hold.
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AWOS-3 133.825	DENVER APP CON 126.1 360.75	UNICOM 123.0 (CTAF) 1
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	5840-1 710 (800-1)	5860-1 730 (800-1)	5880-2 ¼ 750 (800-2 ¼)	NA	Min:Sec					

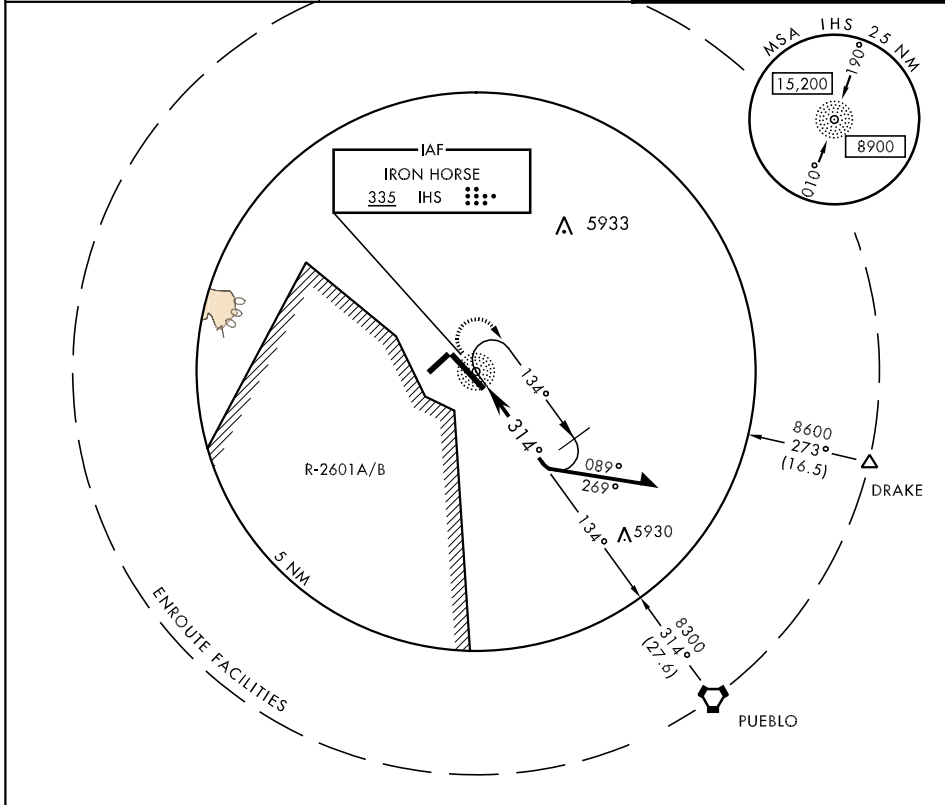
NDB IHS 335	APCH CRS 314°	Rwy Idg TDZE Arpt Elev 4572 5823 5838
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AL-6594 [USA]

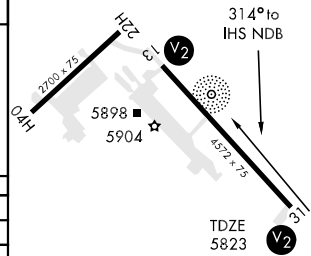
BUTTS AAF (KFCS)

NA When control zone not in effect, use Colorado Springs, CO altimeter setting	MISSED APPROACH: Climbing right turn to 7900 in IHS holding pattern.
--	---

ATIS 108.8	SPRINGS APP CON 124.0 257.875	BUTTS TOWER 125.5 0 229.4 41.5
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IHS NDB 134° 314° 7200 Remain within 5 NM		7900 IHS ELEV 5838
CATEGORY	COPTER	
H-314°	6280-½	457 (500-½)
CITY OF COLORADO SPRINGS MUNI ALTIMETER SETTING MINIMUMS		
H-314°	6360-½	537 (600-½)



MIRL Rwy 13-31

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for OATHE Transition.

NOTE: Adjacent STAR is QUAIL ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

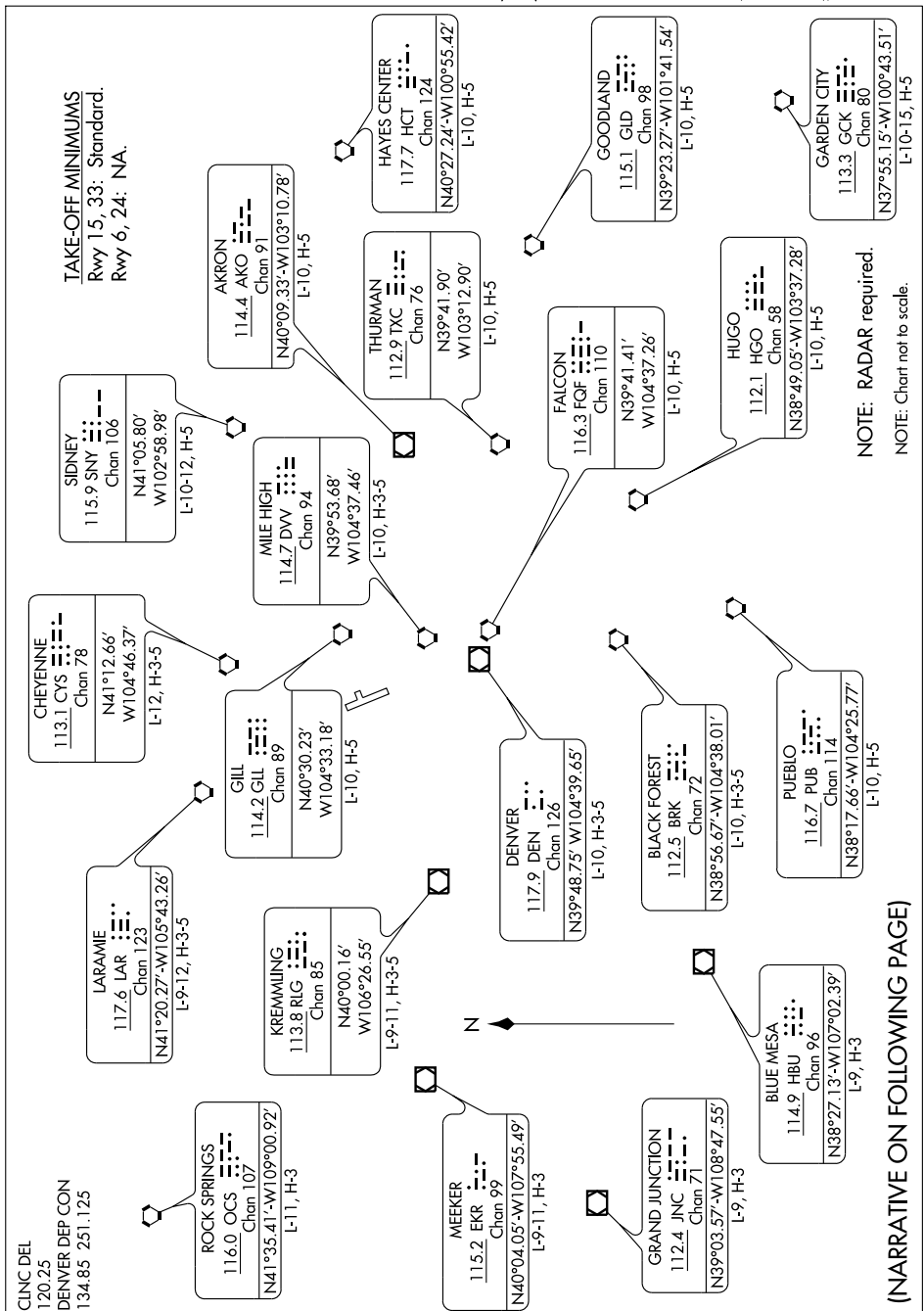
....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER FIVE DEPARTURE

SL-5677 (FAA)

FORT COLLINS-LOVELAND MUNI (FNL)

FORT COLLINS (LOVELAND), COLORADO



(NARRATIVE ON FOLLOWING PAGE)

SW-1. 14 JAN 2010 to 11 FEB 2010

DENVER FIVE DEPARTURE

SL-5677 (FAA)

FORT COLLINS-LOVELAND MUNI (FNL)
FORT COLLINS (LOVELAND), COLORADO

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

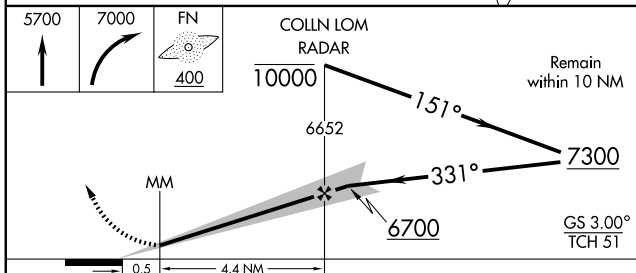
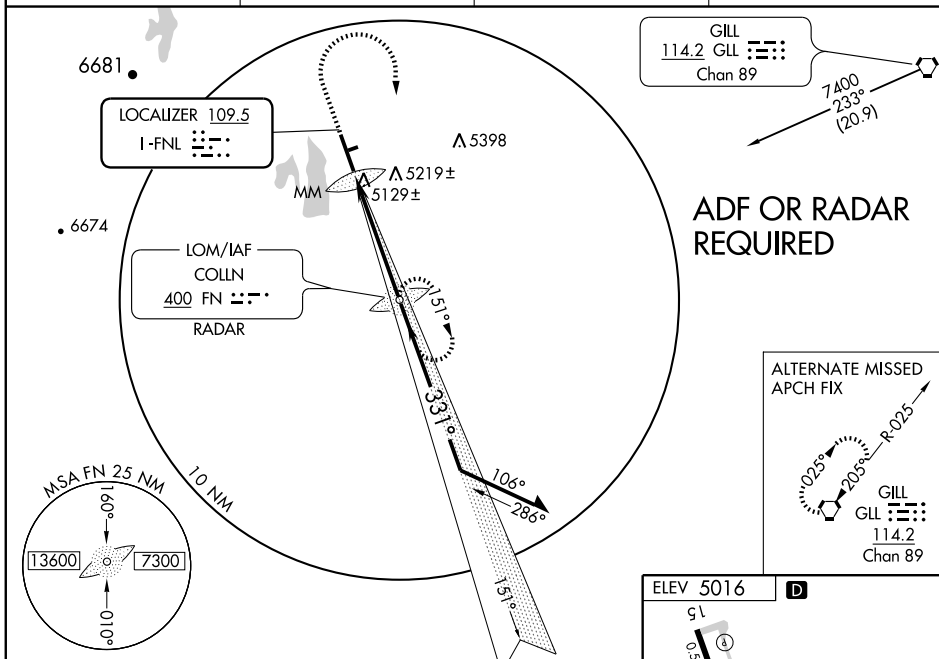
LOC I-FNL	APP CRS	Rwy Idg	8500
109.5	331°	TDZE	5016
		Apt Elev	5016

ILS or LOC RWY 33

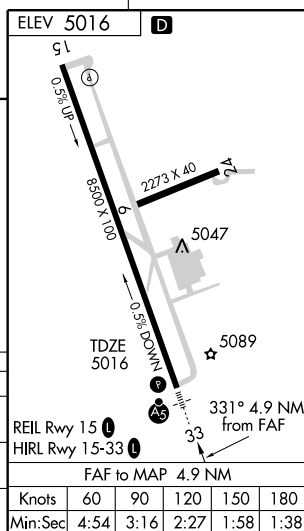
FORT COLLINS-LOVELAND MUNI (FNL)

⚠ Circling to Rwy 6/24 NA at night. ADF or RADAR required. ⚠ NA When local altimeter setting not received, use Denver Intl altimeter setting and increase DA 147 feet and all MDA 160 feet. Increase S-ILS 33 visibility all Cats ¼ mile, S-LOC 33 Cat C/D visibility ½ mile, and Circling Cat C/D visibility ¼ mile. For inoperative MALS, when using Denver Intl altimeter setting increase S-ILS 33 visibility all Cats to 1¼ mile.	MALS	MISSED APPROACH: Climb to 5700 then climbing right turn to 7000 direct COLLN LOM and hold.
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AWOS-3 135.075	DENVER APP CON 134.85 251.125	CLNC DEL 120.25	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
S-ILS 33	5216-½ 200 (200-½)			
S-LOC 33	5380-½ 364 (400-½)		5380-¾ 364 (400-¾)	
CIRCLING	5500-1 484 (500-1)		5520-1½ 504 (600-1½)	
			5580-2 564 (600-2)	





NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER APP CON
120.35 379.3
BUCKLEY AFB ATIS
119.675 259.3
CENTENNIAL ATIS
120.3
DENVER INTL ATIS ARR
125.6
FRONT RANGE ATIS
119.025
ROCKY MOUNTAIN METRO ATIS
126.25

GILL
114.2 GLL ::::
Chan 89
N40°30.23'-W104°33.18'

FORT COLLINS-
LOVELAND MUNI 

 GREELEY-
WELD COUNTY

DENVER
117.9 DEN 
Chan 126
N39°48.75'-W104°

JEFFCO
115.4 BJC
Chan 101

HUUGE
N39°34.72'
W104°47.91'

PAYDD
N39°24.10'
W105°04.73'

FALCON
116.3 FQF 
Chan 110
N39°41.41'
W104°37.26'

LARKS
N39°15.44'-W105°18.31'
VERTICAL NAVIGATION
PLANNING INFORMATION

TURBOJETS: Expect to cross at 17000 and 250 KIAS or as assigned by ATC.

RED TABLE
113.0 DBL 
Chan 77

BLUE MESA
114.9 HBU 
Chan 96

BLACK FOREST
12.5 BRK 
Chn 72

PAPPA
N38°29.61'
W106°28.70'

LOPEC
N38°05.56
W106°51.5
H-3

RATTLESNAKE
115.3 RSK 
Chan 100
6°44.90'-W108°05.93'
L-8, H-4

ON
1.75'
9.51'

ALAMOSA
113.9 ALS $\therefore \equiv \cdot \cdot$
Chan 86
7°20.95'-W105°48.93'
L-8-9, H-4-5

PUEBLO
116.7 PUB 
Chan 114
N38°17.66'-W104°25.77'
L-10, H-5

NOTE: Adjacent STAR is POWDR ARRIVAL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-1 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

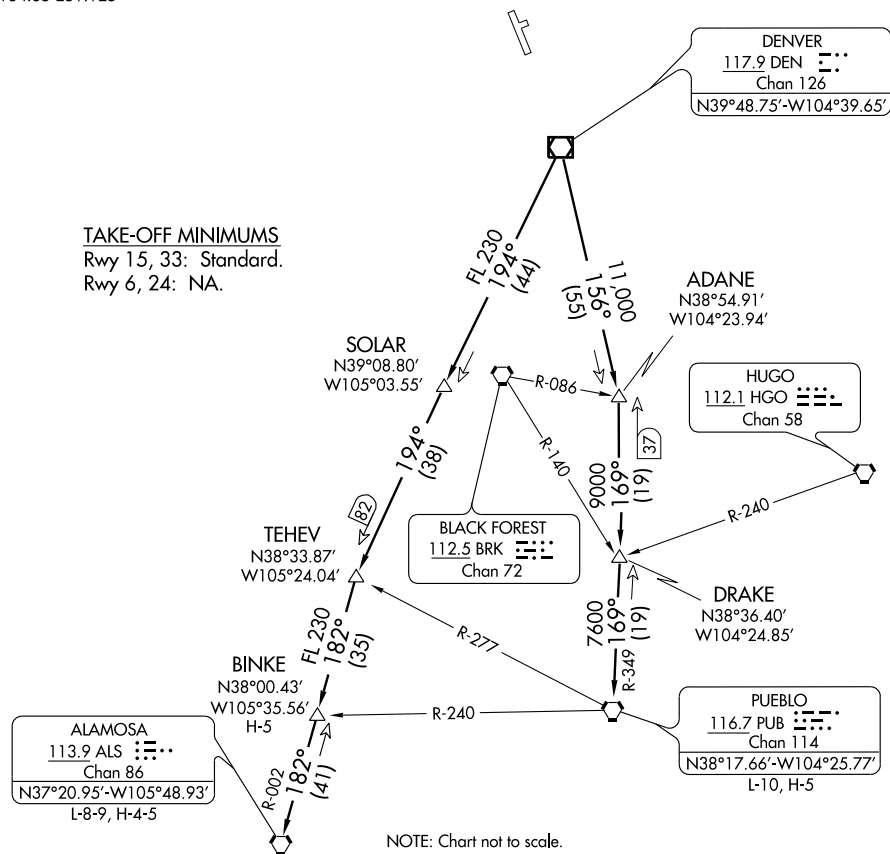
PIKES FOUR DEPARTURE

SL-5677 (FAA)

FORT COLLINS-LOVELAND MUNI (FNL)
FORT COLLINS (LOVELAND), COLORADOCLNC DEL
120.25
DENVER DEP CON
134.85 251.125TAKE-OFF MINIMUMS

Rwy 15, 33: Standard.

Rwy 6, 24: NA.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

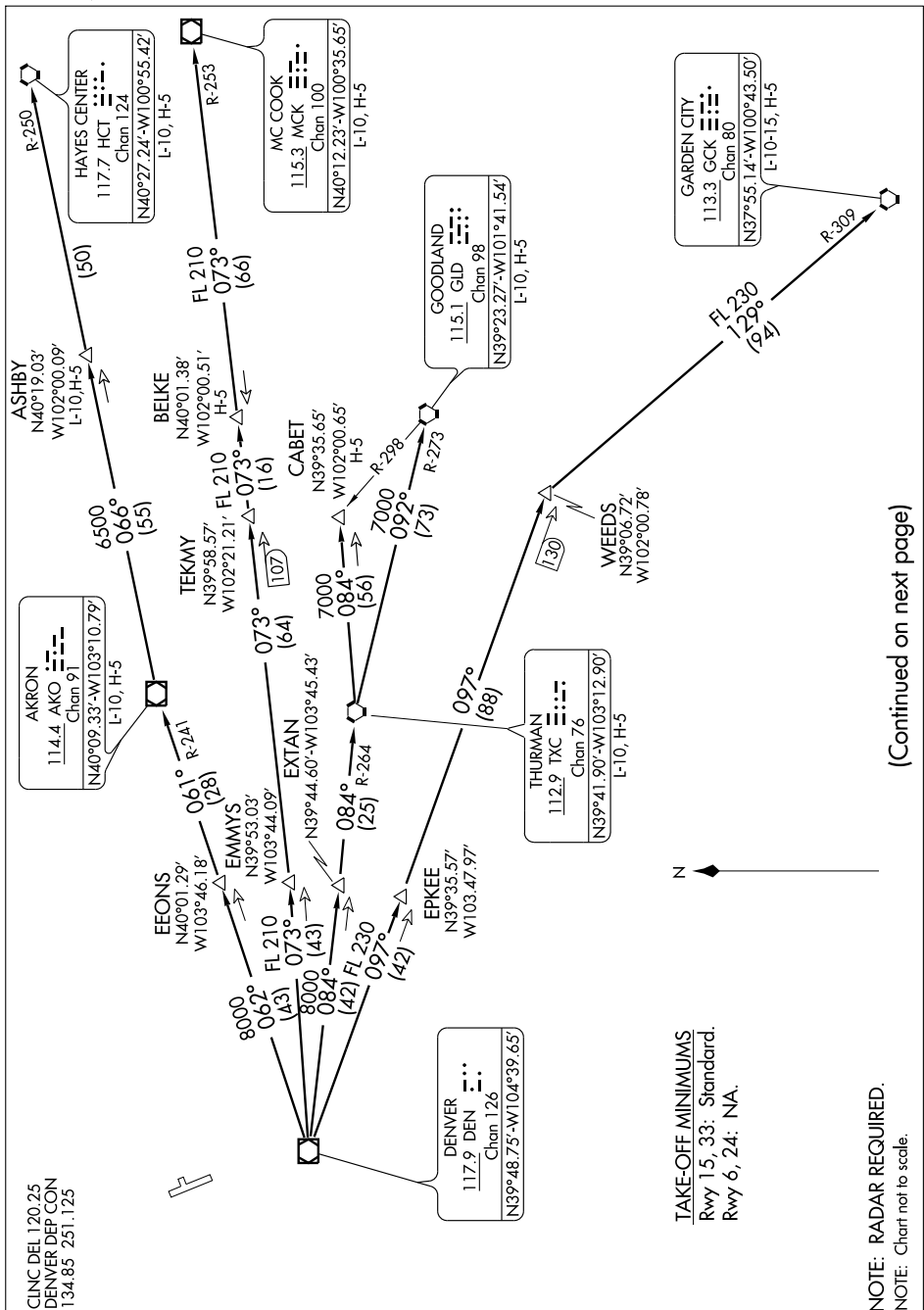
PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.

PLAINS FOUR DEPARTURE

SL-5677 (FAA)

FORT COLLINS-LOVELAND MUNI (FNL)

FORT COLLINS (LOVELAND), COLORADO



(Continued on next page)

SW-1 14 JAN 2010 to 11 FEB 2010

NOTE: RADAR REQUIRED.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.



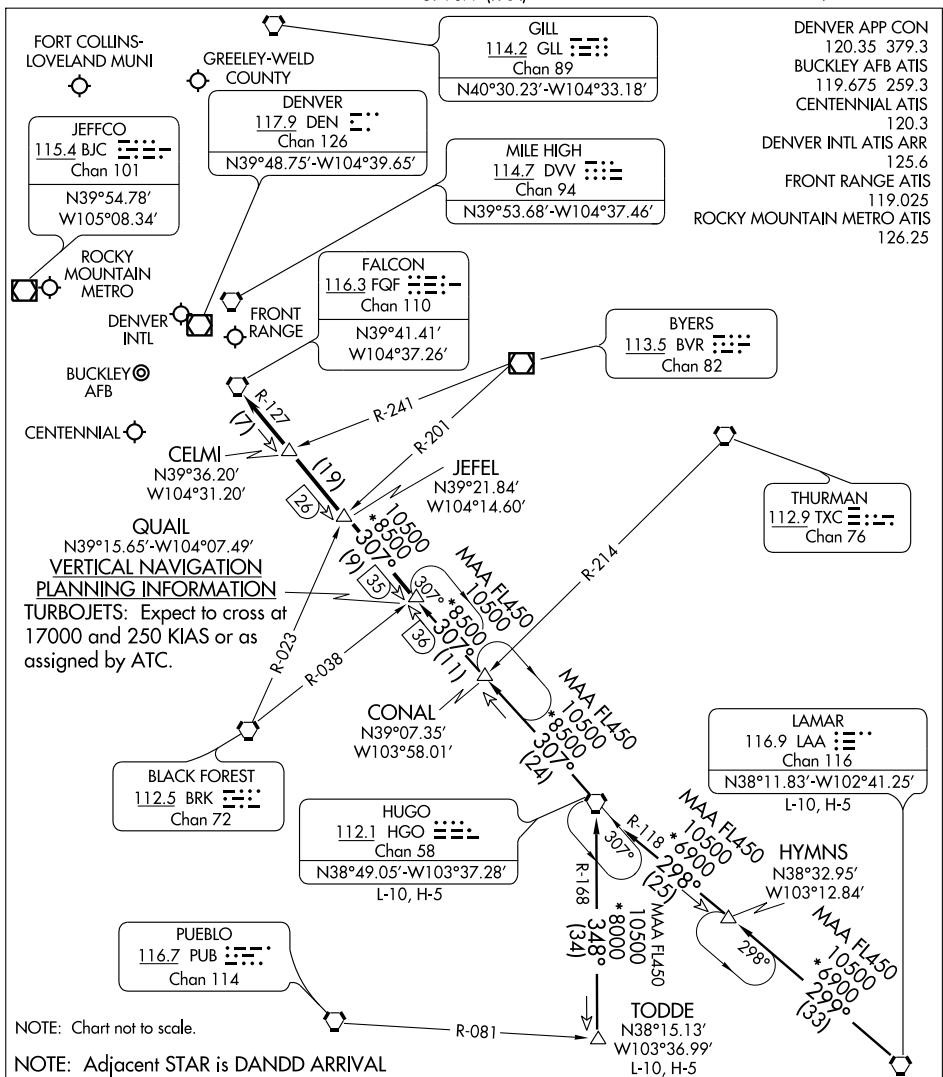
ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to to QUAIL INT. Thence....

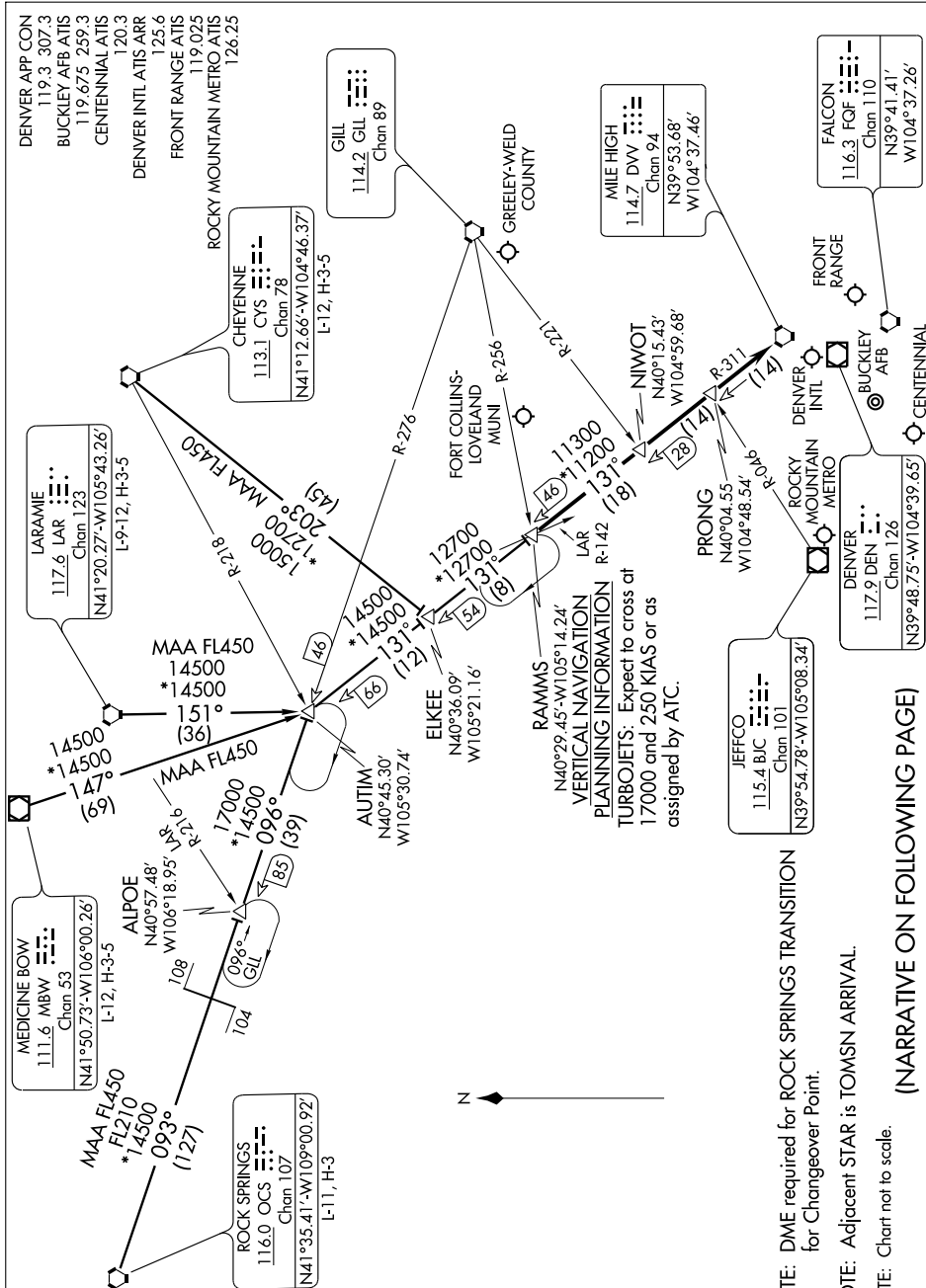
TODDE TRANSITION (TODDE,QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
Expect radar vectors to the final approach course at or before FQF VORTAC.

RAMMS FIVE ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

APP CRS	Rwy Idg	8500
151°	TDZE	4985
	Apt Elev	5016

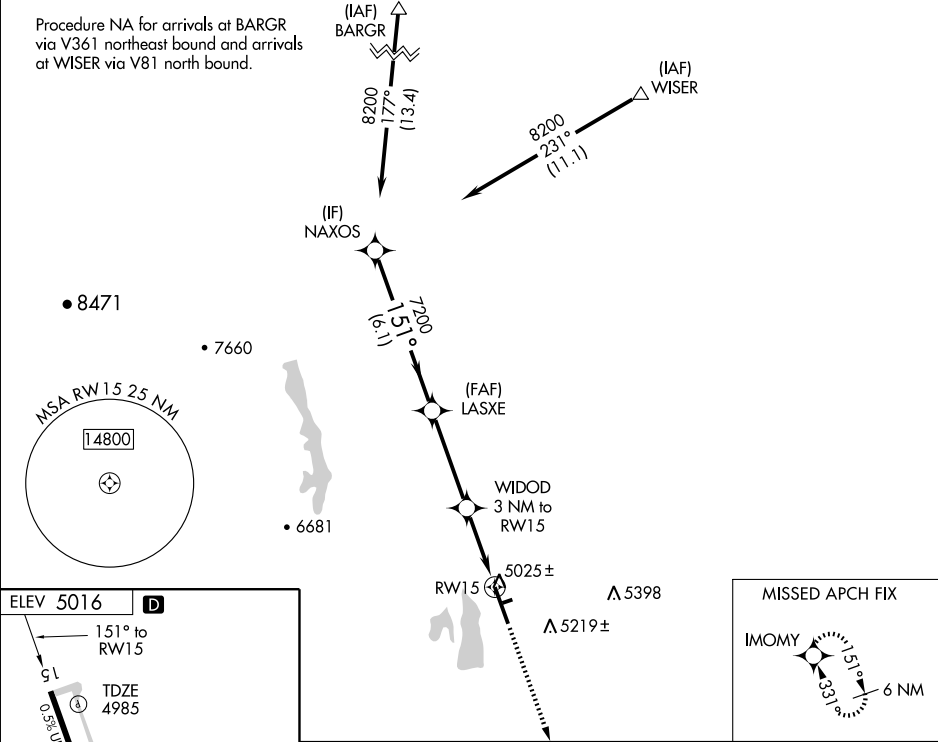
RNAV (GPS) RWY 15

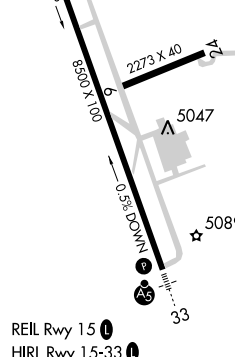
FORT COLLINS-LOVELAND MUNI (FNL)

- Circling to Rwy 6/24 NA at night.
- DME/DME RNP- 0.3 NA.
- VDP NA when using Denver Intl altimeter setting.
- When local altimeter setting not received, use Denver Intl altimeter setting and increase all MDA 160 feet and increase LNAV Cat C visibility ¼ mile, Cat D ½ mile, and Circling Cat C/D visibility ¼ mile.

MISSED APPROACH: Climb to 7600 direct IMOMY and hold.

AWOS-3 135.075	DENVER APP CON 134.85 251.125	CLNC DEL 120.25	UNICOM 122.7 (CTAF)
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NAXOS				
LASXE				
WIDOD 3 NM to RW15				
RW15				
7600 IMOMY				
Procedure Turn NA				
8200 151° 7200 5980				
6.1 NM 3.7 NM 2.2 NM 0.8				
CATEGORY	A	B	C	D
LNAV MDA	5280-1 295 (300-1)			
CIRCLING	5500-1 484 (500-1)		5520-1½ 504 (600-1½)	5580-2 564 (600-2)

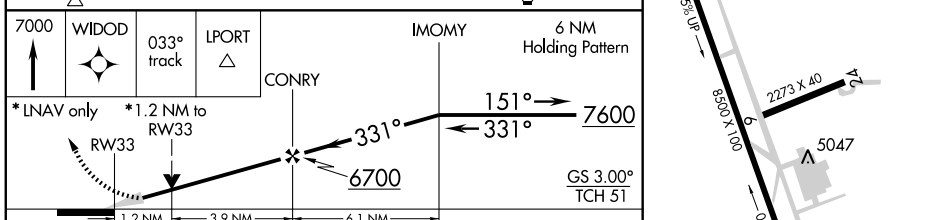
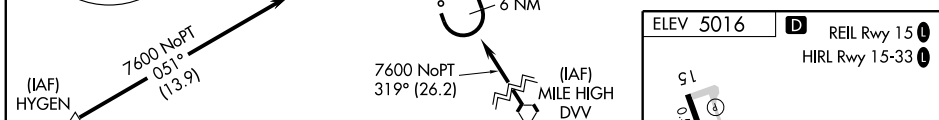
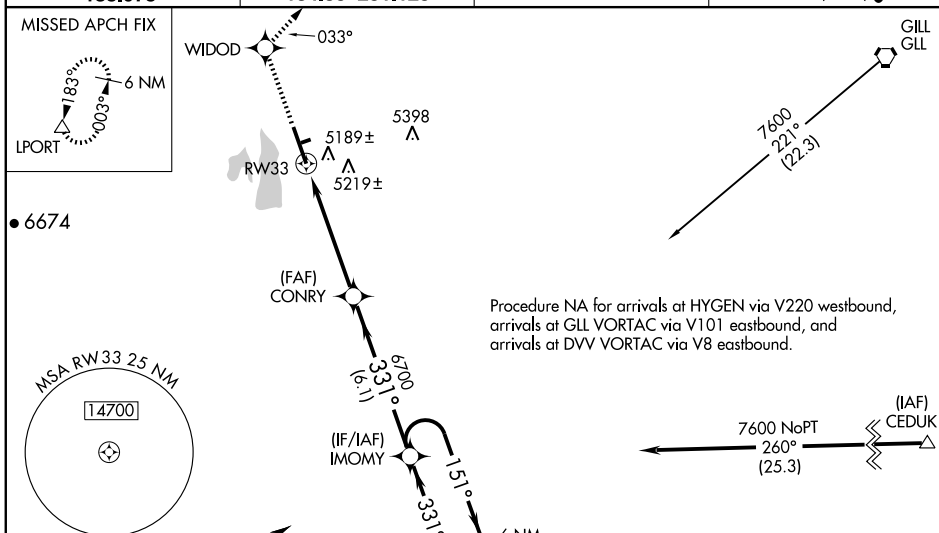
WAAS CH 97511 W33A	APP CRS 331°	Rwy Idg TDZE Apt Elev 8500 5016 5016
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RNAV (GPS) RWY 33

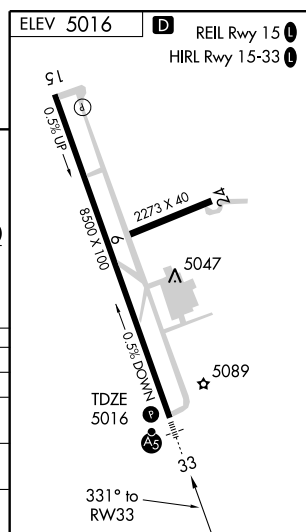
FORT COLLINS-LOVELAND MUNI (FNL)

▼ Circling to Rwy 6/24 NA at night. ▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 39°C (102°F). VDP and Baro-VNAV NA when using Denver Intl altimeter setting. For inoperative MALSR when using Denver Intl altimeter setting, increase visibility all Cats ½ mile. When local altimeter setting not received, use Denver Intl altimeter setting and increase DA 147 feet and MDA 160 feet. Increase LPV visibility all Cats ½ mile, LNAV/VNAV all Cats ½ mile, LNAV and Circling Cat C/D ½ mile.	MALSR 	MISSED APPROACH: Climb to 7000 direct WIDOD and via 033° track to LPORT and hold. When authorized by ATC, climb-in-hold to 8000.
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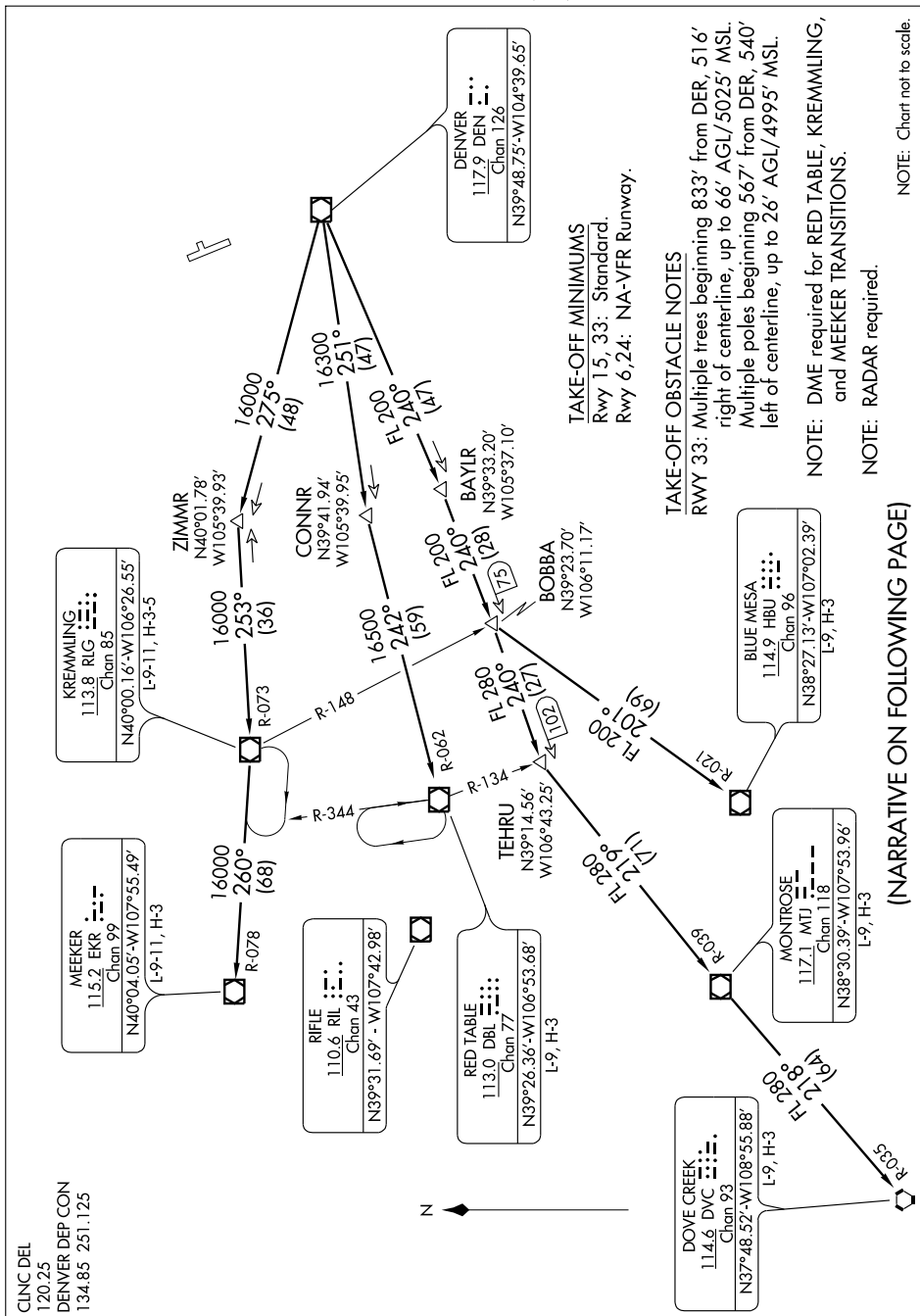
AWOS-3 135.075	DENVER APP CON 134.85 251.125	CLNC DEL 120.25	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
LPV DA	5216-½	200 (200-½)		
LNAV/VNAV DA	5489-1¼	473 (500-1¼)		
LNAV MDA	5440-½ 424 (500-½)	5440-¾ 424 (500-¾)	5440-1 424 (500-1)	
CIRCLING	5500-1 484 (500-1)	5520-1½ 504 (600-1½)	5580-2 564 (600-2)	



ROCKIES SEVEN DEPARTURE

 FORT COLLINS-LOVELAND MUNI (FNL)
 SL-5677 (FAA) FORT COLLINS (LOVELAND), COLORADO




DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

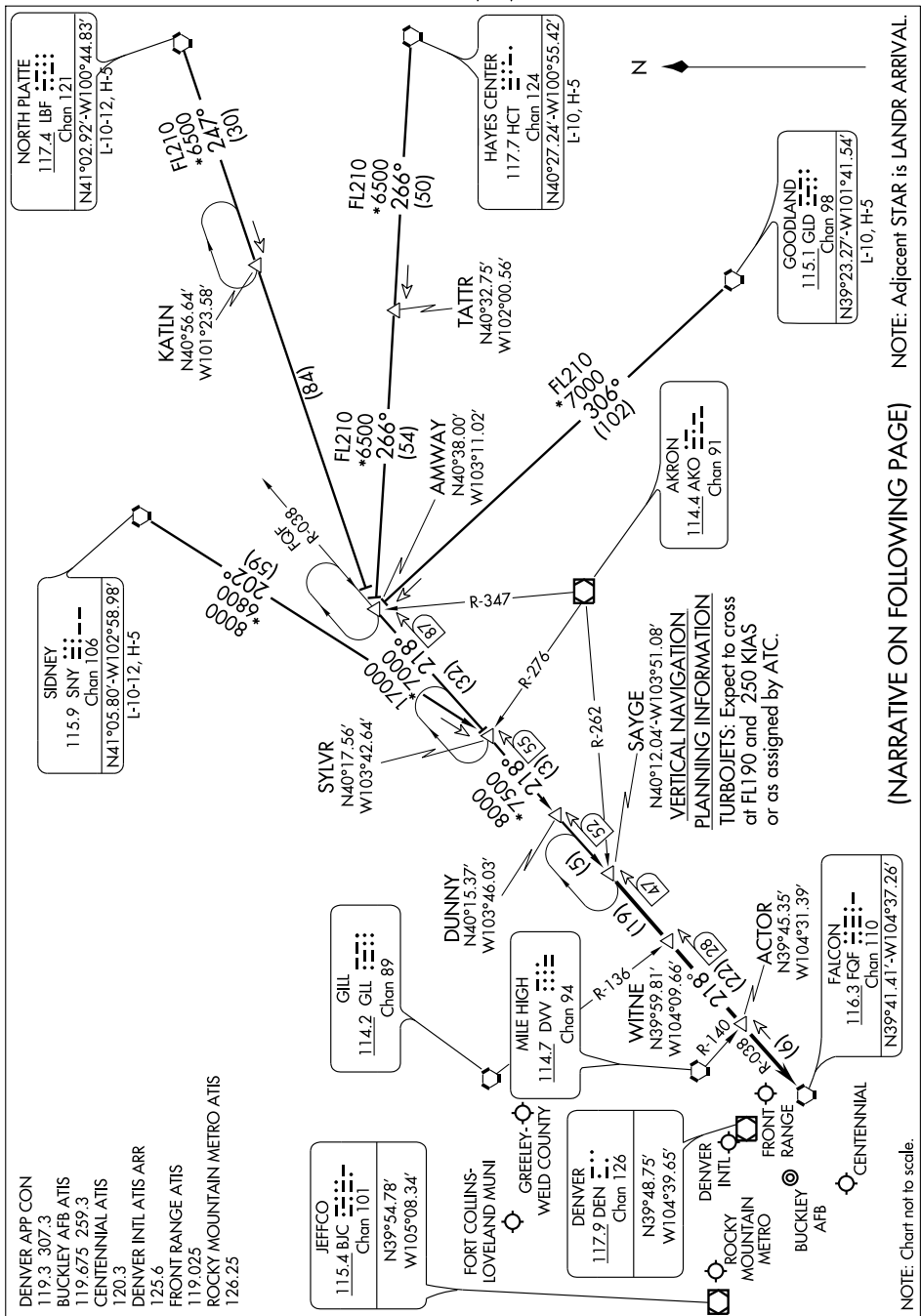
MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.

ST-9077 (FAA)

DENVER, COLORADO



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Adjacent STAR is LANDR ARRIVAL.

SW-1. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.



ARRIVAL DESCRIPTION

HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

VORTAC GLL 114.2 Chan 89	APP CRS 248°	Rwy Idg TDZE Apt Elev N/A N/A 5016
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VOR/DME-A

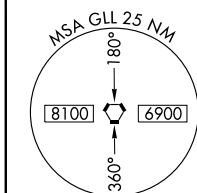
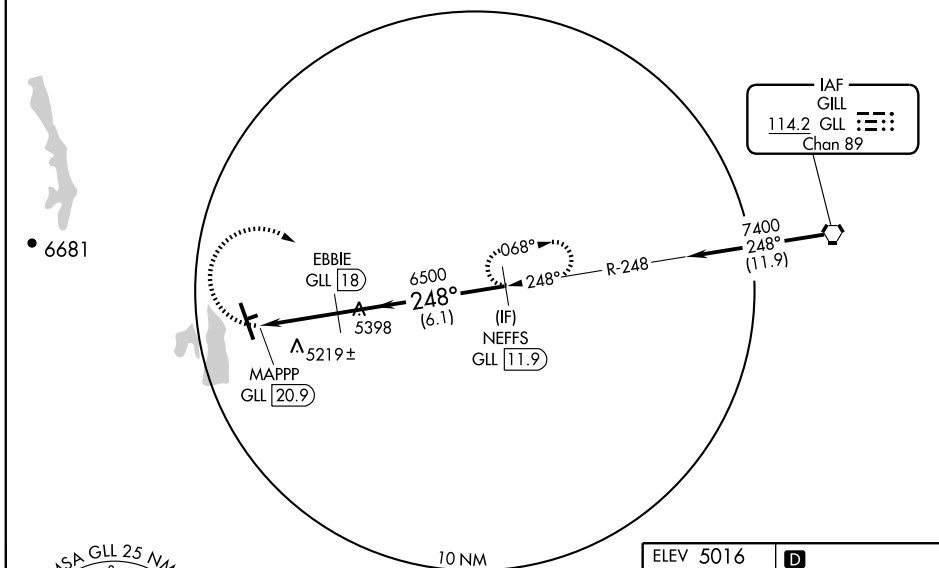
FORT COLLINS-LOVELAND MUNI (FNL)

- ▼** Circling to Rwy 6/24 NA at night.
▲ When local altimeter setting not received, use Denver Intl altimeter setting and increase all MDA 160 feet and Cat C/D visibility ¼ mile.

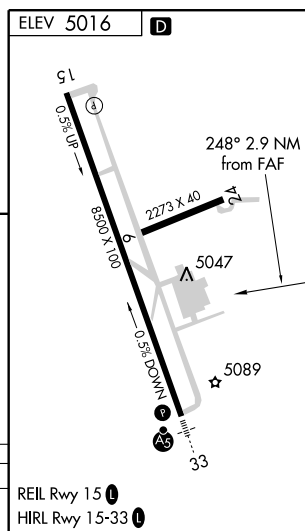
MISSED APPROACH: Climbing right turn to 7400 via GLL VORTAC R-248 to NEFFS/GLL 11.9 DME and hold.

AWOS-3 135.075	DENVER APP CON 134.85 251.125	CLNC DEL 120.25	UNICOM 122.7 (CTAF) 0
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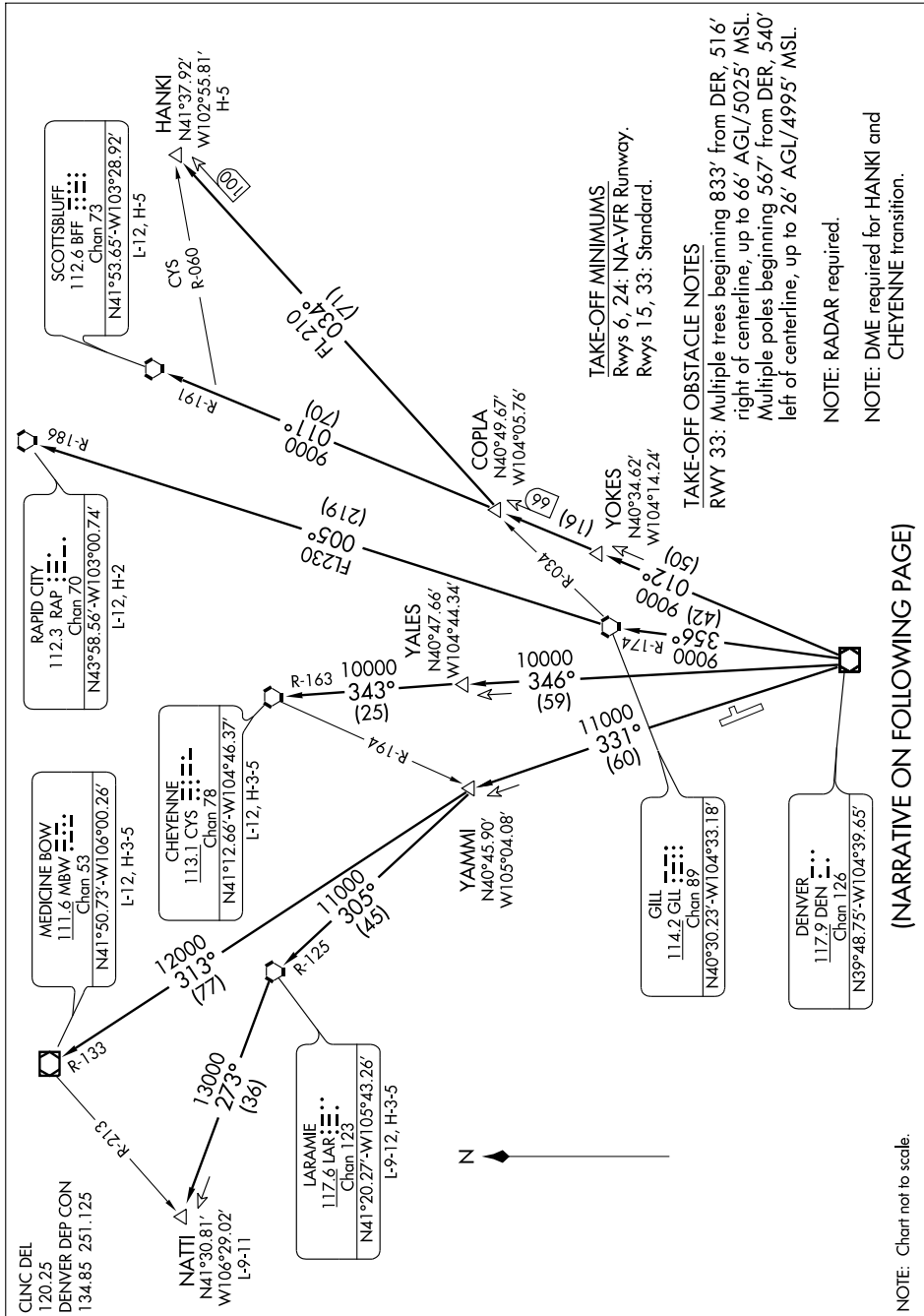
Procedure NA for arrivals on GLL VORTAC
airway radials 221 CW 301.



CATEGORY	NEFFS GLL 11.9		NEFFS GLL 11.9	
	GLL R-248		GLL R-248	
CIRCLING	A	B	C	D
	5500-1 484 (500-1)	5500-1¼ 484 (500-1¼)	5520-1½ 504 (600-1½)	5580-2 564 (600-2)



YELLOWSTONE SIX DEPARTURE



YELLOWSTONE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLOW6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLOW6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLOW6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLOW6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

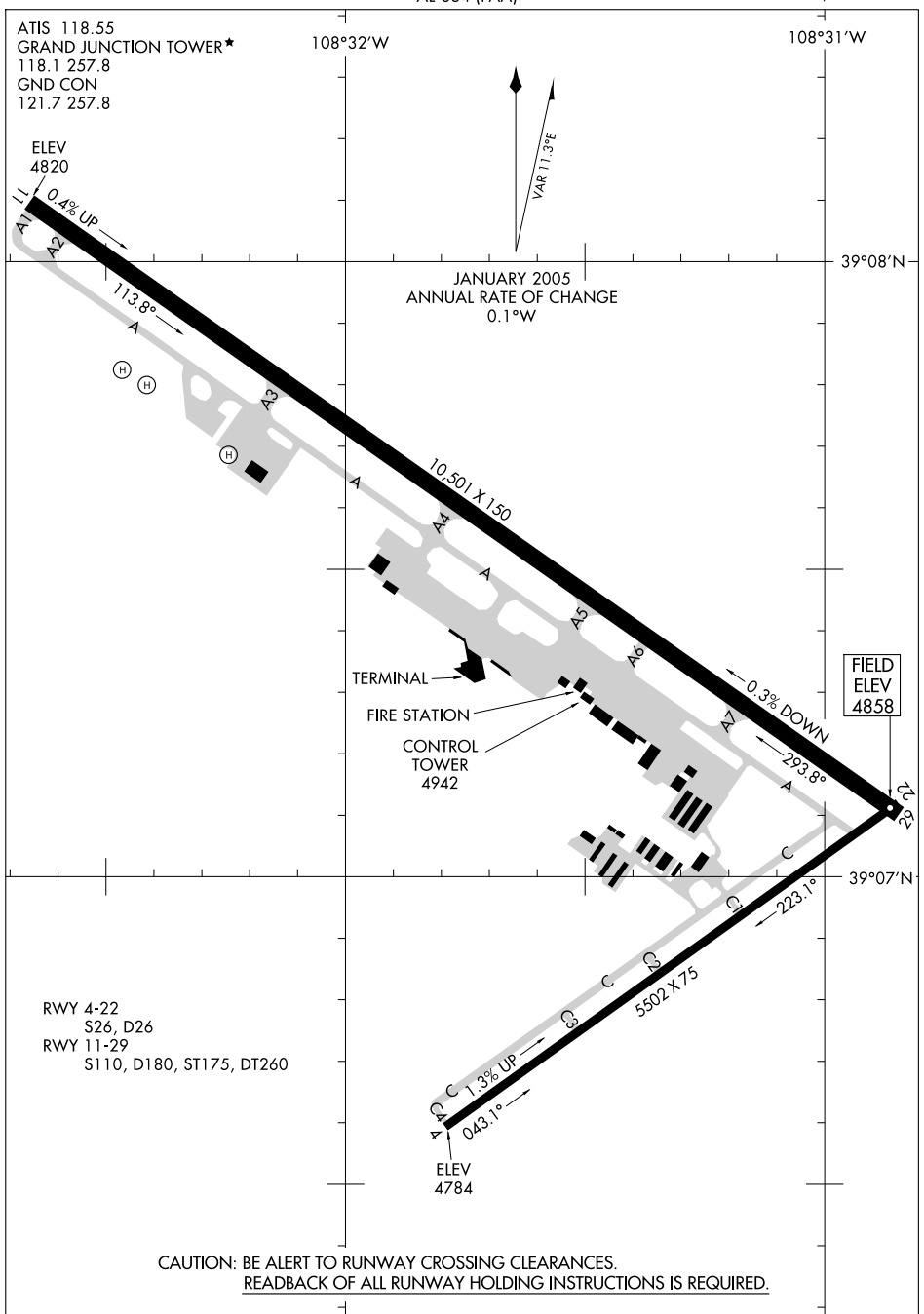
NATTI TRANSITION (YELLOW6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

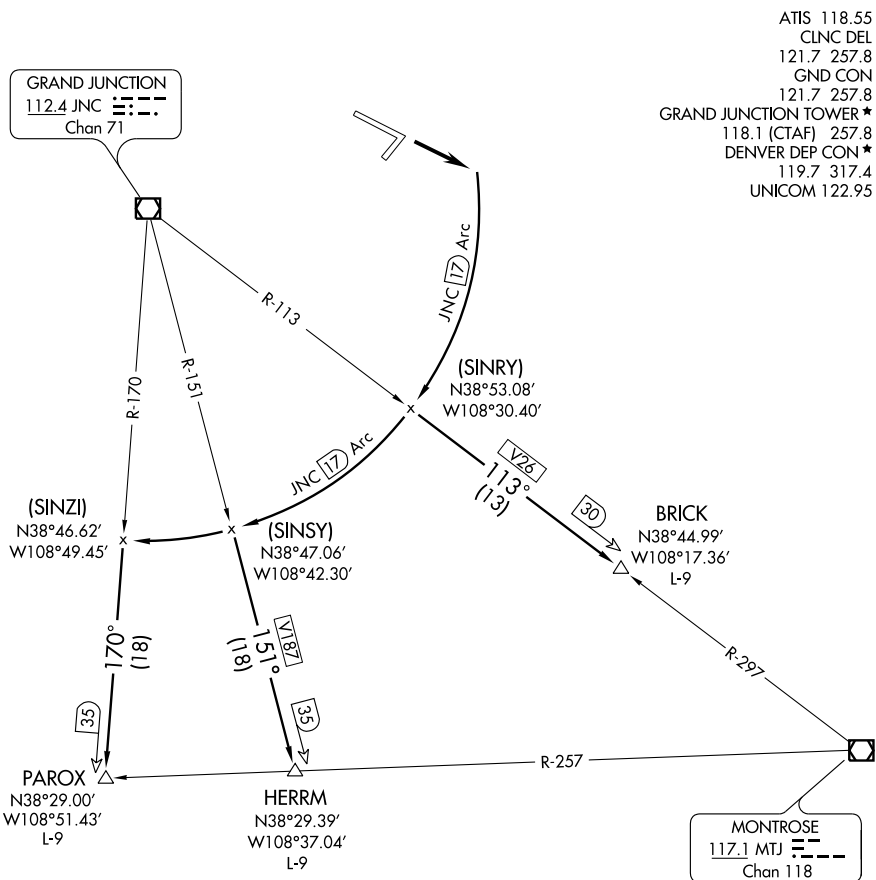
RAPID CITY TRANSITION (YELLOW6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

SCOTTSBLUFF TRANSITION (YELLOW6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

AIRPORT DIAGRAM

AL-634 (FAA)

 GRAND JUNCTION RGNL (GJT)
 GRAND JUNCTION, COLORADO




NOTE: DME required.

NOTE: This SID requires a minimum climb of 220' per NM to 9000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Climb runway heading to intercept JNC VORTAC 17 DME Arc
thence clockwise to assigned transition.

BRICK TRANSITION (GDPK1.BRICK): Via JNC VORTAC 17 DME Arc to JNC R-113 thence Southeast-bound to BRICK DME fix.

HERRM TRANSITION (GDPK1.HERRM): Via JNC VORTAC 17 DME Arc to JNC R-151
thence Southeast-bound to HERRM INT.

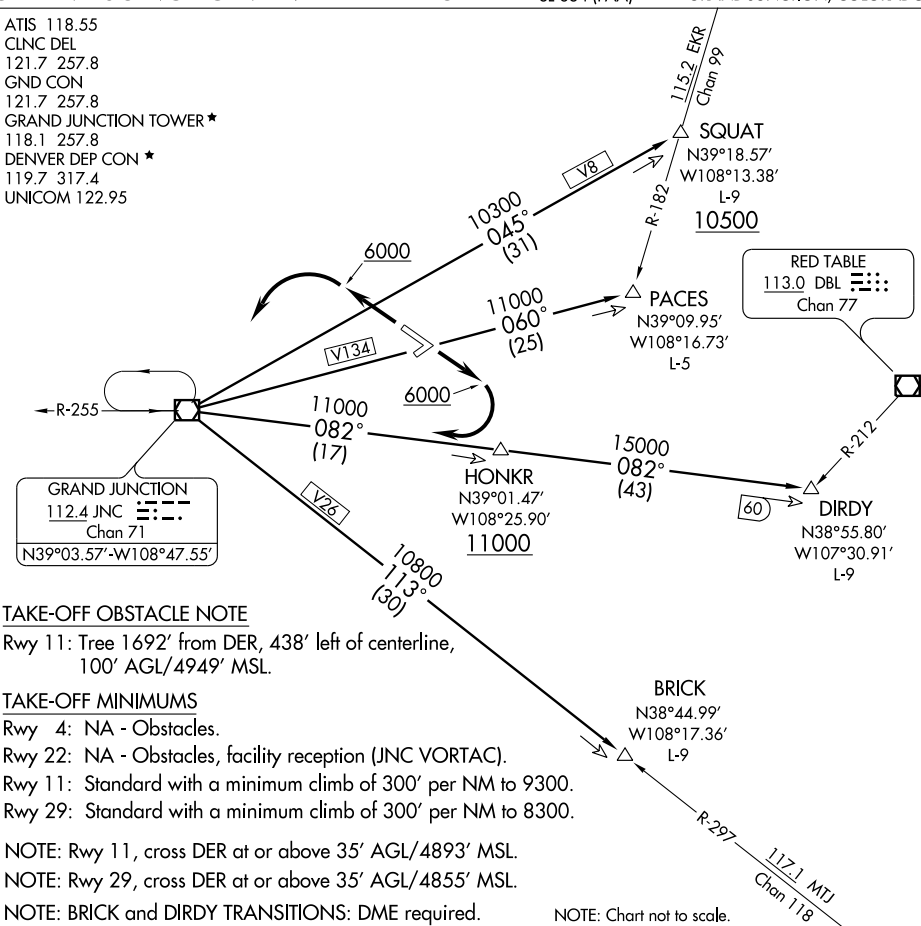
PAROX TRANSITION (GDPK1.PAROX): Via JNC VORTAC 17 DME Arc to JNC R-170
thence Southeast-bound to PAROX INT.

GRAND JUNCTION FIVE DEPARTURE

SL-634 (FAA)

GRAND JUNCTION RGNL (GJT)
GRAND JUNCTION, COLORADO

ATIS 118.55
 CLNC DEL
 121.7 257.8
 GND CON
 121.7 257.8
 GRAND JUNCTION TOWER *
 118.1 257.8
 DENVER DEP CON *
 119.7 317.4
 UNICOM 122.95



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Climb runway heading to 6000, then climbing right turn direct JNC VORTAC; then via transition/route.

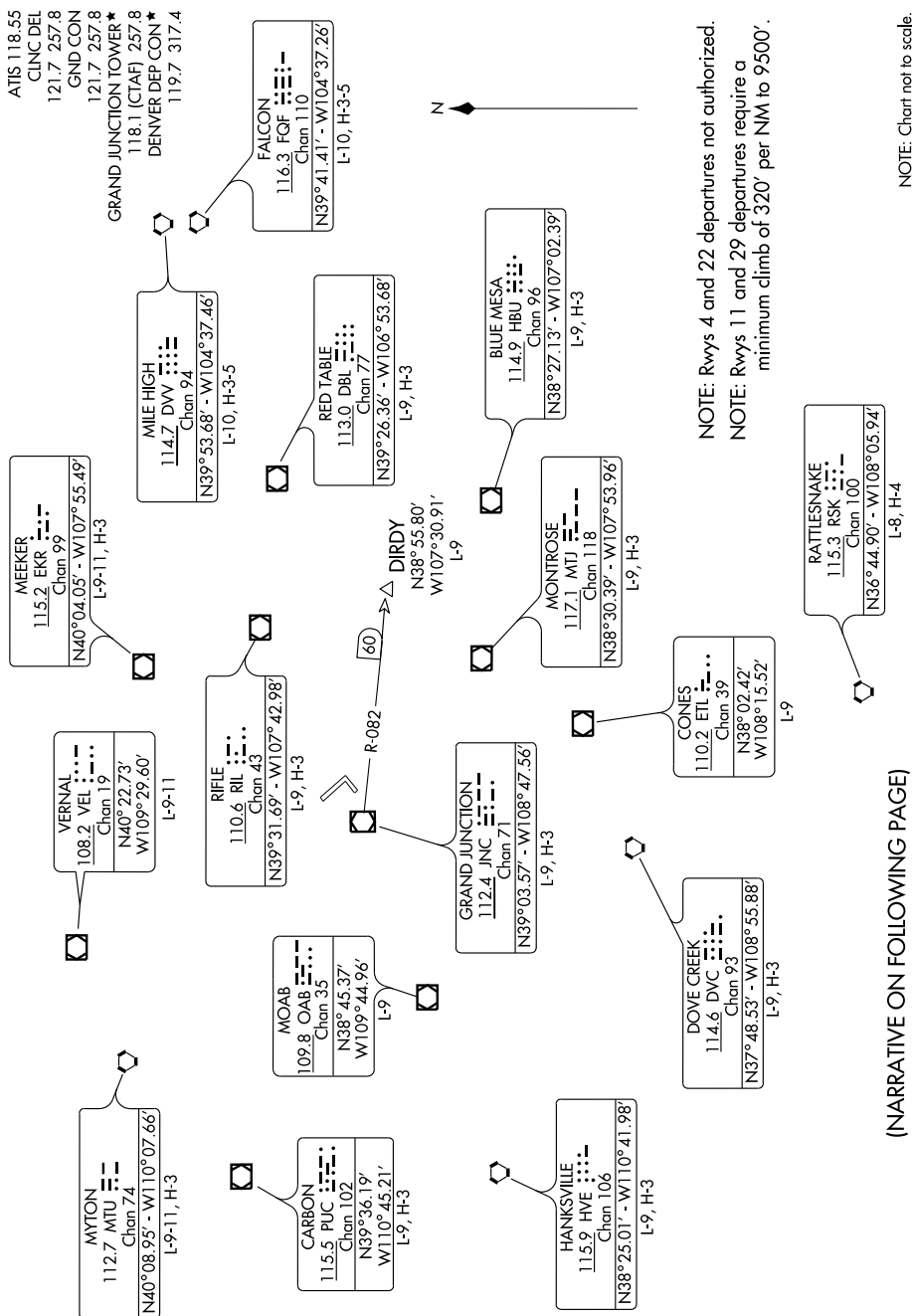
TAKE-OFF RUNWAY 29: Climb runway heading to 6000, then climbing left turn direct JNC VORTAC; then via transition/route.

BRICK TRANSITION (JNC5.BRICK): From over JNC VORTAC via JNC R-113 to BRICK/JNC 30 DME.

DIRDY TRANSITION (JNC5.DIRDY): From over JNC VORTAC via JNC R-082 to HONKR/JNC 17 DME then via JNC R-082 to DIRDY INT/JNC 60 DME.

PACES TRANSITION (JNC5.PACES): From over JNC VORTAC via JNC R-060 to PACES INT/JNC 25 DME.

SQUAT TRANSITION (JNC5.SQUAT): From over JNC VORTAC via JNC R-045 to SQUAT INT/JNC 31 DME.





DEPARTURE ROUTE DESCRIPTION

Fly assigned heading for vectors to assigned fix/route. Maintain 14000 or assigned lower altitude. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within 1 minute after departure, Runway 11: Climbing right turn direct to JNC VORTAC; Runway 29: Climb to 6000' then climbing left turn direct to JNC VORTAC. Aircraft departing JNC R-221 clockwise JNC R-060, depart JNC VORTAC on course. All other aircraft climb in JNC VORTAC holding pattern (hold SW, left turns, 075° inbound) to cross JNC VORTAC at or above: R-061 clockwise R-130 9500'; R-131 clockwise R-220 10500'.

▼

DME required.

▲

RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS R

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LOC/DME I-ACD 109.7 Chan 34	APP CRS 312°	Rwy Idg 10501 TDZE 4858 Apt Elev 4858
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LDA/DME RWY 29
GRAND JUNCTION RGNL (GJT)

T Auto-coupled approach not authorized inside 2.0 DME.

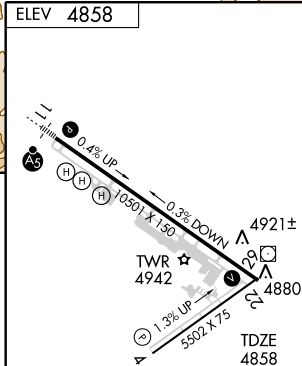
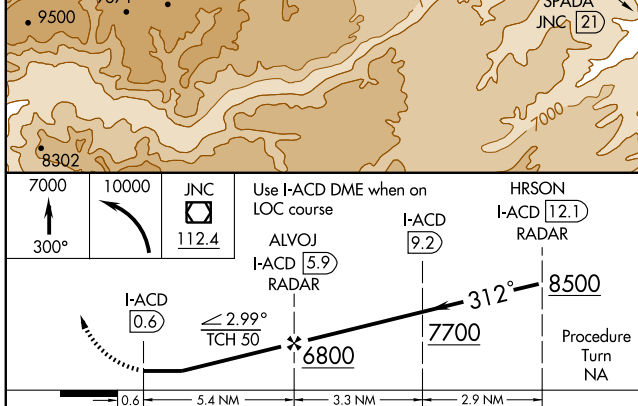
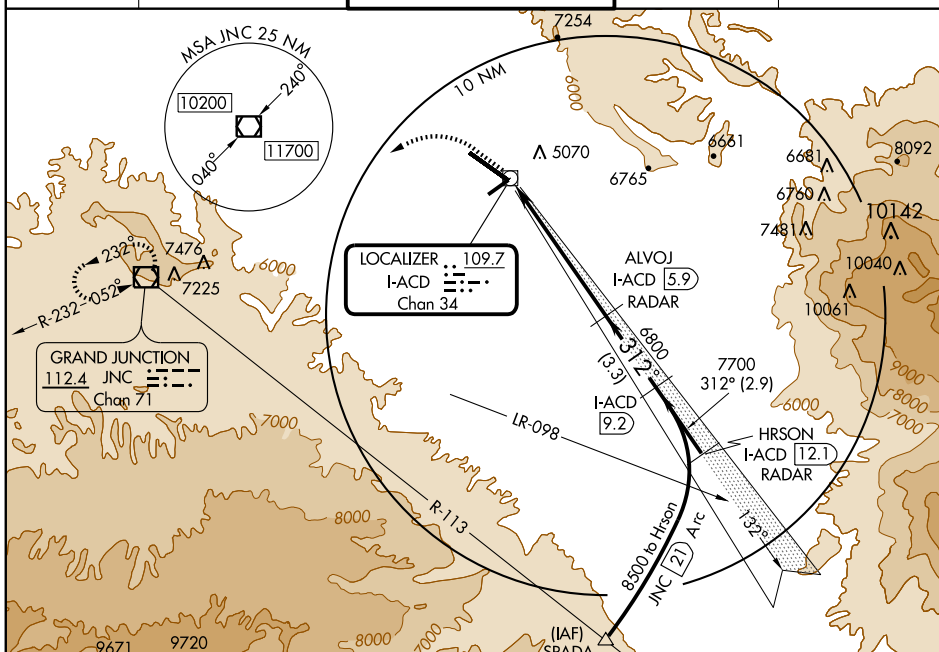
MISSED APPROACH: Climb to 7000 via heading 300°, then climbing left turn to 10000 direct JNC VORTAC and hold.

ATIS
118.55

DENVER APP CON ★
119.7 317.4

GRAND JUNCTION TOWER★
118.1 (CTAF) 257.8

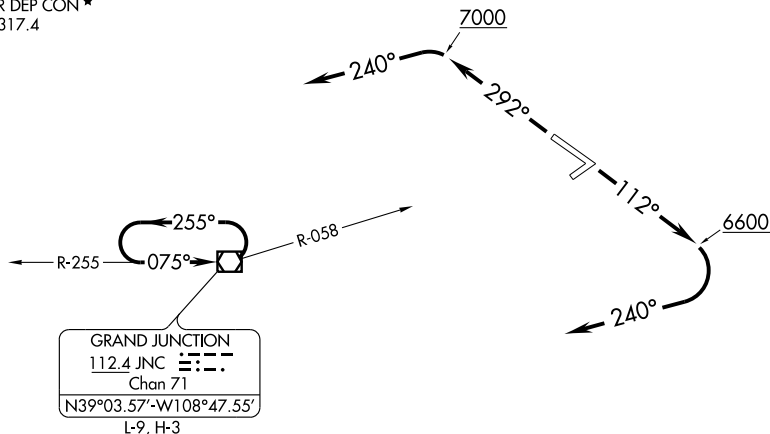
GND CON
121.7 257.8

UNICOM
122.95

CATEGORY	A	B	C	D
S-29	5400-1	542 (600-1)	5400-1½ 542 (600-½)	5400-1¾ 542 (600-1¾)
CIRCLING	5400-1	542 (600-1)	5440-1½ 582 (600-½)	5540-2¼ 682 (700-2¼)

REIL Rwy 4 and 22
MIRL Rwy 4-22
HIRL Rwy 11-29 **L**

ATIS 118.55
GND CON
121.7 257.8
GRAND JUNCTION TOWER ★
118.1 257.8
DENVER DEP CON ★
119.7 317.4



TAKE-OFF OBSTACLE NOTES

Rwy 11: Pole and light beginning 252' from DER, 266' left of centerline, up to 20' AGL/4880' MSL.
Tree 3238' from DER, 1351' left of centerline, 100' AGL/5019' MSL.

TAKE-OFF MINIMUMS

Rwy 4: NA - Obstacles.
Rwy 22: NA - Obstacles, facility reception (JNC VORTAC).
Rwy 11: Standard with a minimum climb of 390' per NM to 5100,
or 3000-3 for climb in visual conditions.
Rwy 29: Standard with a minimum climb of 220' per NM to 7000,
or 3000-3 for climb in visual conditions.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Climb heading 112° to 6600, then climbing right turn via heading 240° until receiving JNC VORTAC, then proceed direct JNC VORTAC. Thence . . . , or for climb in visual conditions cross Grand Junction Rgnl Airport westbound at or above 7700, then proceed on JNC R-058 to JNC VORTAC. Thence

TAKE-OFF RUNWAY 29: Climb heading 292° to 7000, then climbing left turn via heading 240° until receiving JNC VORTAC, then proceed direct JNC VORTAC. Thence . . . , or for climb in visual conditions cross Grand Junction Rgnl Airport westbound at or above 7700, then proceed on JNC R-058 to JNC VORTAC. Thence

. . . . Cross JNC VORTAC at or above MEA/MCA for route of flight. If required, continue climb in JNC holding pattern to cross JNC at or above MEA/MCA for route of flight.

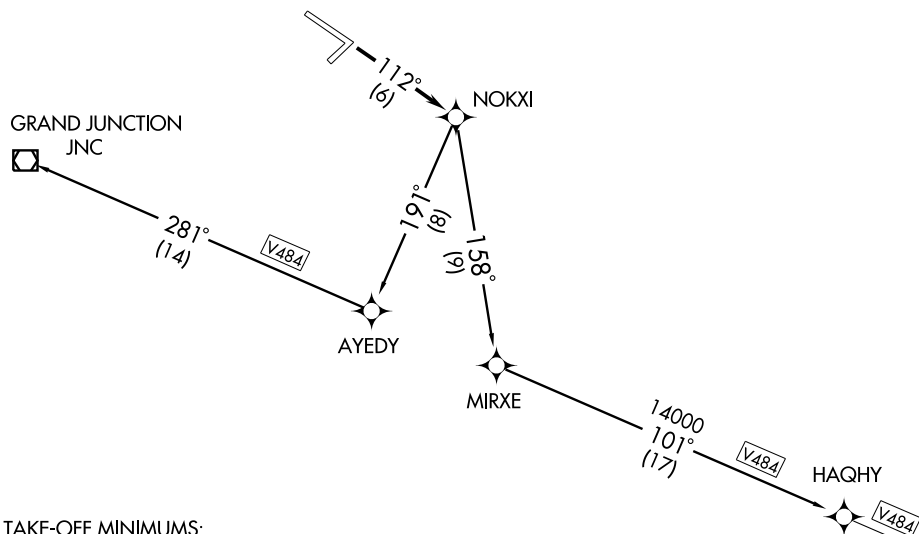
NOTE: 1. GPS Required.
2. RNAV 1

GRAND JUNCTION TOWER ★

118.1 257.8

DENVER DEP CON ★

119.7 317.4

**TAKE-OFF MINIMUMS:**

Rwy 4, 22, 29: NA.

Rwy 11: GRAND JUNCTION TRANSITION: 2300-3 or standard with a minimum climb of 250' per NM from take-off to 8000'. HAQHY TRANSITION: 5500-3 or standard with a minimum climb of 280' per NM from take-off to 11,000.

GRAND JUNCTION TRANSITION: Do not exceed 200 KIAS until AYEDY WP, cross JNC VORTAC at MEA/MCA for direction of flight.

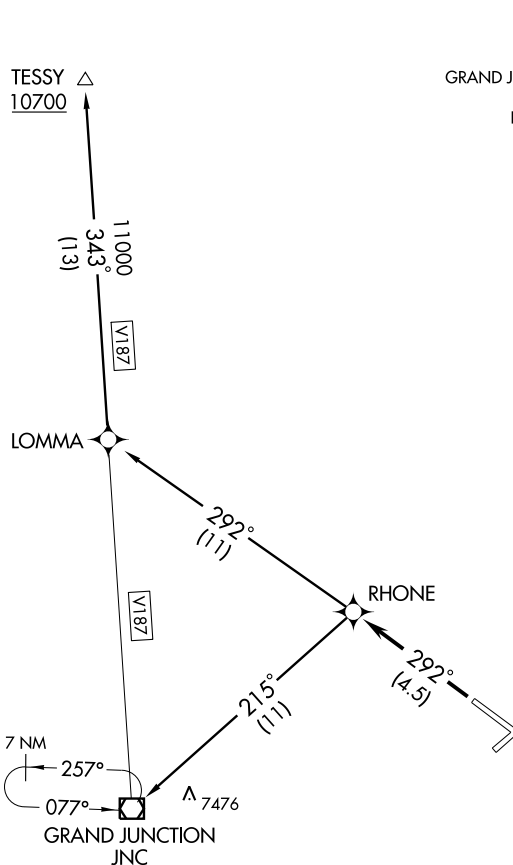
NOTE: Chart not to scale

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAY 11: Climb via 112° course to NOKXI WP.

GRAND JUNCTION TRANSITION (NOKXI1..JNC)

HAQHY TRANSITION (NOKXI1..HAQHY)



ATIS 118.55

GND CON

121.7 257.8

GRAND JUNCTION TOWER ★

118.1 257.8

DENVER DEP CON ★

119.7 317.4

UNICOM 122.95

TAKE-OFF MINIMUMS

Rwy 4, 11, 22: NA.

Rwy 29: GRAND JUNCTION TRANSITION: 2700-2 or standard with a minimum climb of 280' per NM from take-off to 8000'

TESSY TRANSITION: 2700-2 or standard with a minimum climb of 220' per NM from LOMMA WP to TESSY INT or 210' per NM from take-off to 10700'.

NOTE: 1. GPS Required.
2. RNAV 1

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 29: Climb via 292° course to RHONE WP.GRAND JUNCTION TRANSITION (RHONE2.JNC)TESSY TRANSITION (RHONE2.TESSY)

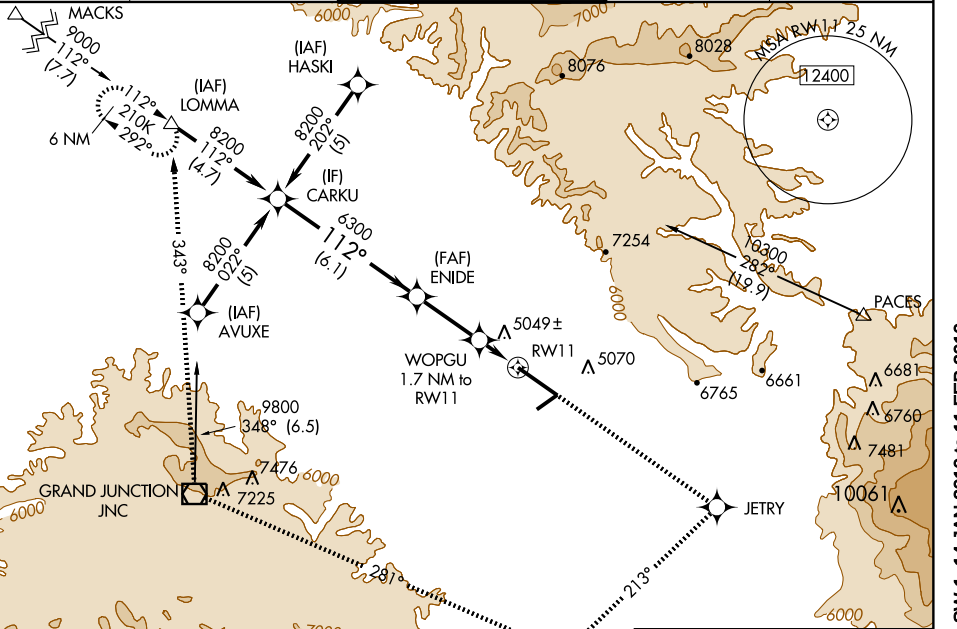
⚠

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (102°F).
DME/DME RNP-0.3 NA. When local altimeter setting not received, procedure NA.

MALS

MISSED APPROACH: Climb to 6700 direct JETRY then climbing right turn to 9000 via track 213° to AYEDY and via track 281° to JNC VORTAC and via track 343° to LOMMA and hold.

ATIS 118.55	DENVER APP CON ★ 119.7 317.4	GRAND JUNCTION TOWER ★ 118.1 (CTAF) 0 257.8	GND CON 121.7 257.8	UNICOM 122.95
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Procedure NA for arrival at JNC VORTAC on airway radials 302 CW 045.

Procedure Turn NA	6700	JETRY	9000	AYEDY	TRK 281°	JNC	TRK 343°	LOMMA
CARKU	↑	✱	TRK 213°	△		112.4	△	△
GS 3.00° TCH 50	8200	112°	6300	ENIDE	WOPGU 1.7 NM to RW11	*5400	*LNAV only	
	6.1 NM		2.7 NM		1.7 NM			
CATEGORY	A	B	C	D				
LPV DA	5033/24		200 (200-½)					
LNAV/VNAV DA	5492-1 ¾		659 (700-1 ¾)					
LNAV MDA	5300/24 467 (500-½)		5300/40 467 (500-¾)		5300/50 467 (500-1)			
CIRCLING	5360-1 502 (600-1)		5380-1 522 (600-1)		5440-1 ½ 582 (600-1 ½)		5540-2 ¼ 682 (700-2 ¼)	

ELEV 4858

REIL Rwy 4 and 22
MIRL Rwy 4-22
HIRL Rwy 11-29

APP CRS
297°

Rwy Idg	10501
TDZE	4858
Apt Elev	4858

RNAV (GPS) RWY 29

GRAND JUNCTION RGNL (GJT)

T GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

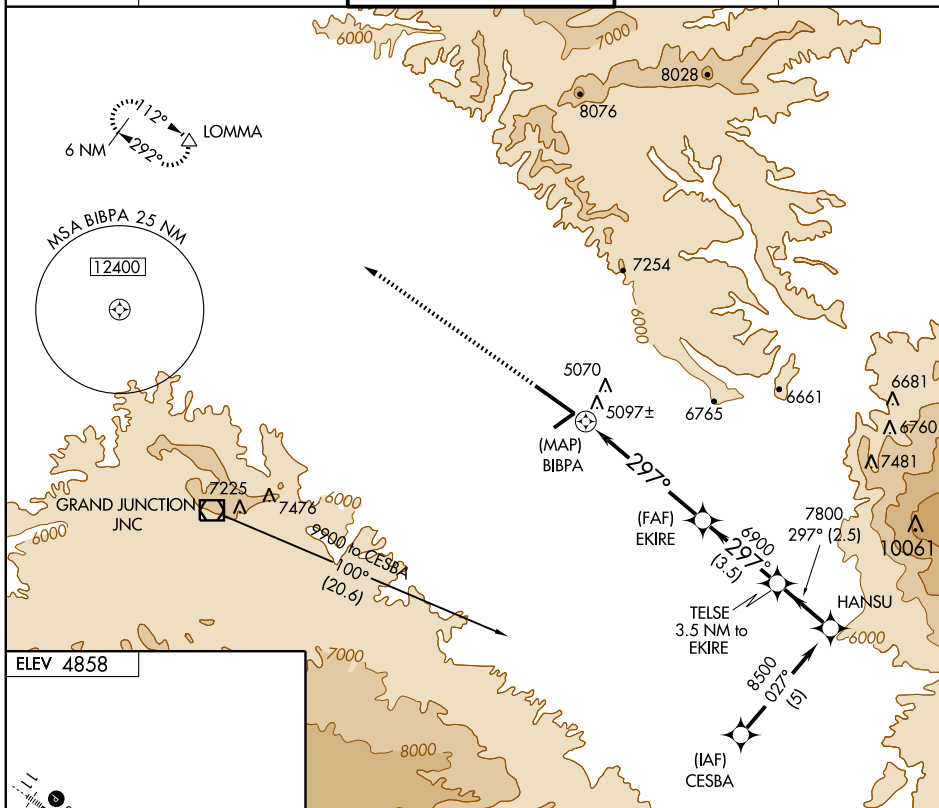
MISSED APPROACH: Climb to 10000 direct to LOMMA WP and hold.

ATIS
118.55

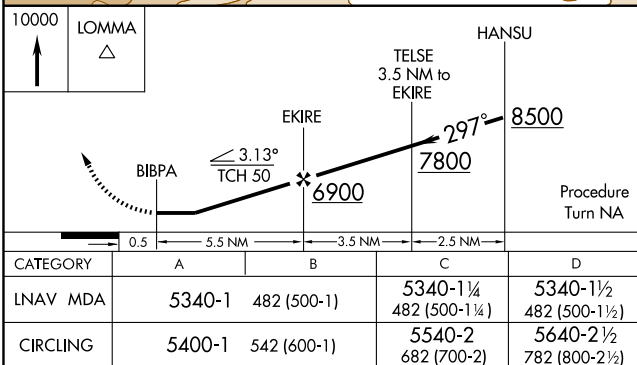
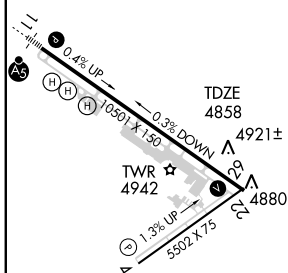
DENVER APP CON ★
119.7 317.4

GRAND JUNCTION TOWER★
118.1 (CTAF) **L** 257.8

GND CON
121.7 257.8

UNICOM
122.95

SW-1: 14 JAN 2010 to 11 FEB 2010



REIL Rwys 4 and 22

MIRL Rwy 4-22

HIRL Rwy 11-29 **L**

6107-1

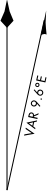
AIRPORT DIAGRAM

AL-325 (FAA)

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADO

AWOS-3
135.175
CTAF/UNICOM
122.8

FIELD
ELEV
4697



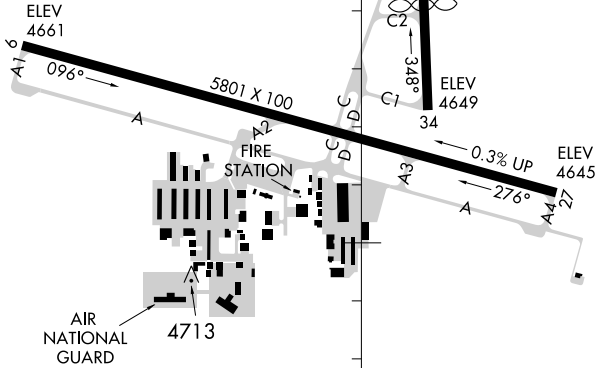
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

40°27'N

40°26'N

RWY 9-27
S18, D30
RWY 16-34
S30, D45

10000 X 100



104°39'W

104°38'W

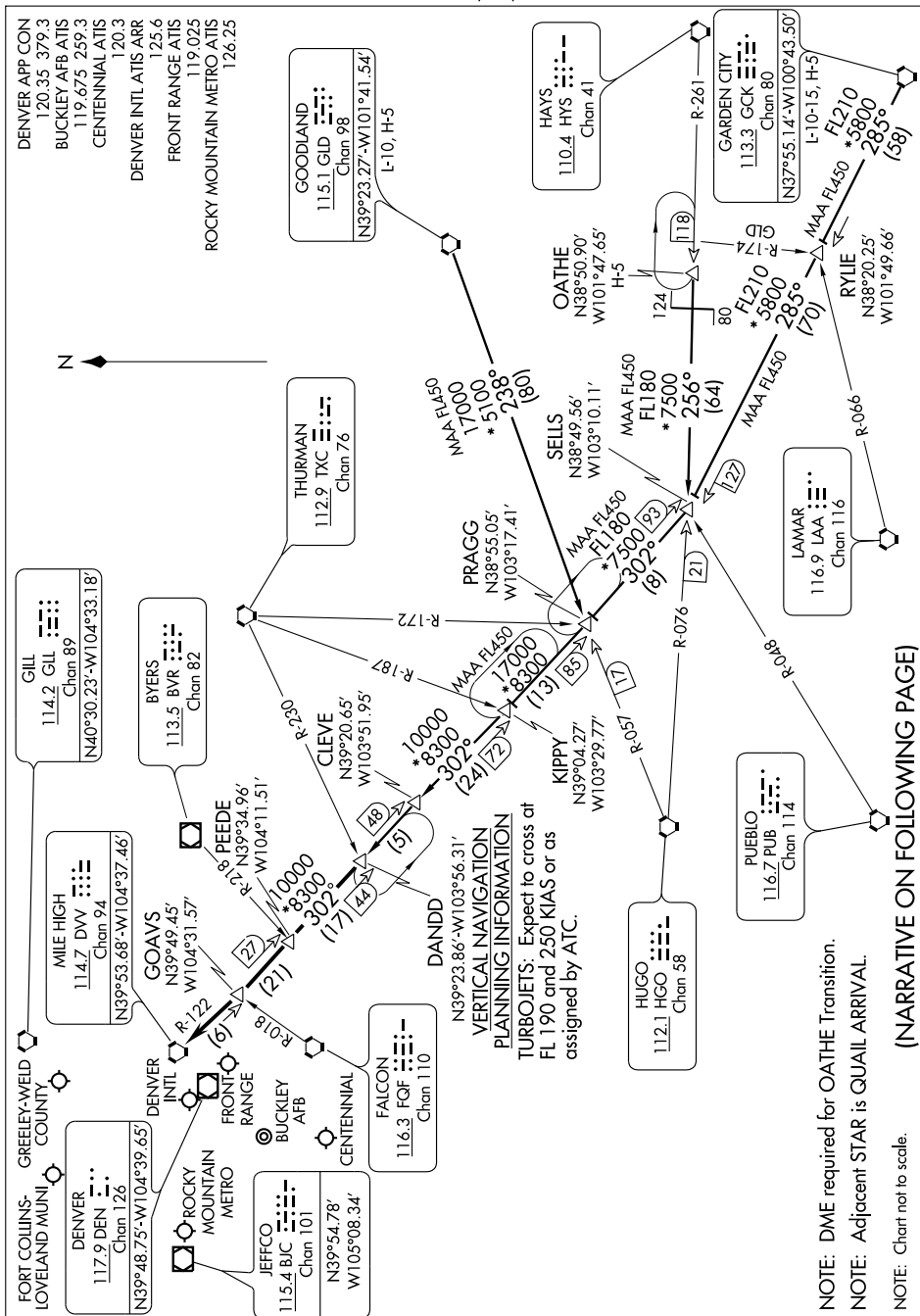
104°37'W

SW-1 14 JAN 2010 to 11 FEB 2010

DANDD FIVE ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

GARDEN CITY TRANSITION (GCK.DANDD5): From over GCK VORTAC via GCK R-285 and DVV R-122 to DANDD INT. Thence....

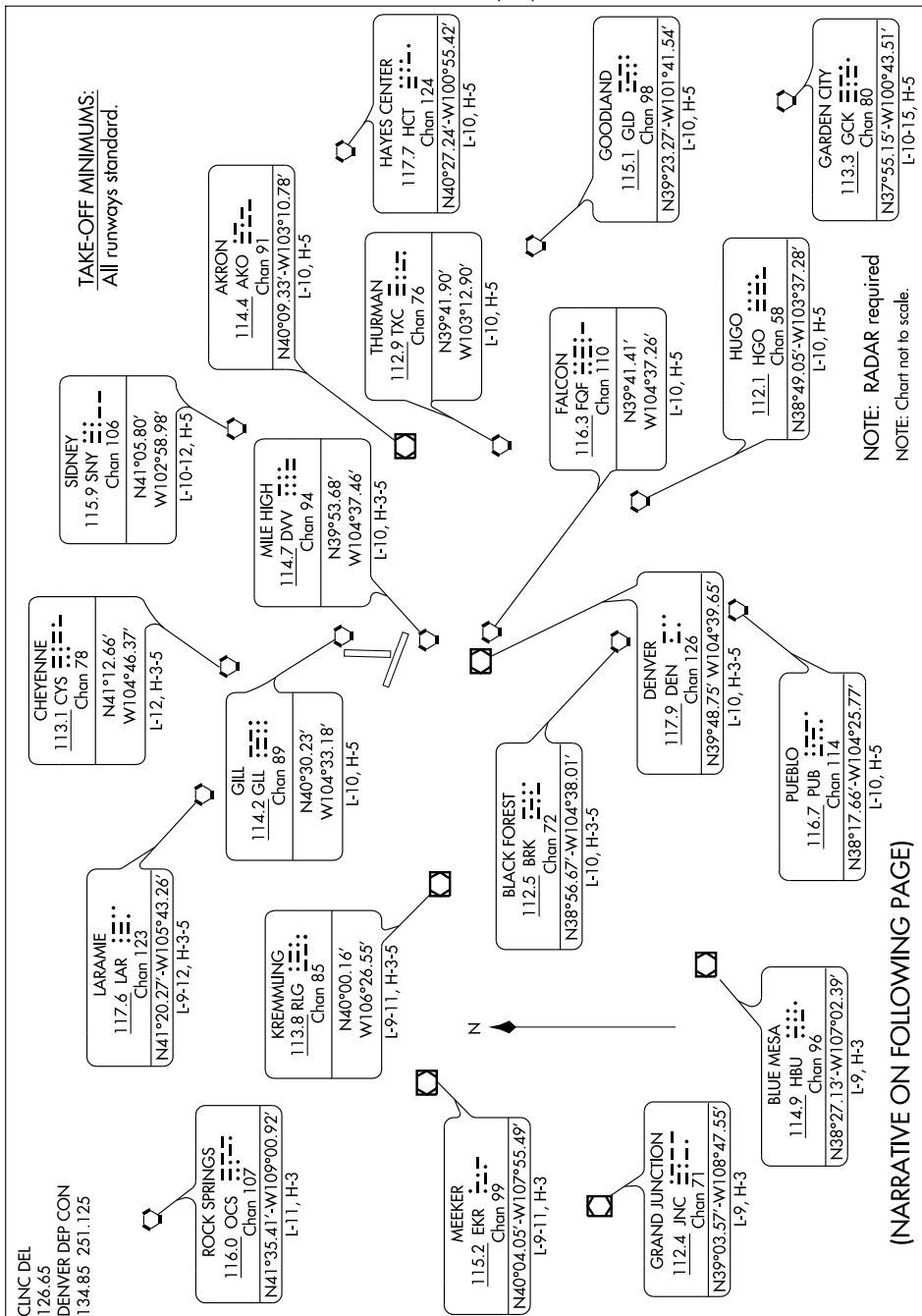
GOODLAND TRANSITION (GLD.DANDD5): From over GLD VORTAC via GLD R-238 and HGO R-057 to PRAGG INT; then via DVV R-122 to DANDD INT. Thence....

OATHE TRANSITION (OATHE.DANDD5): From over OATHE INT via HYS R-261 and HGO R-076 to SELLS INT; then via DVV R-122 to DANDD INT. Thence....

....From over DANDD INT via DVV R-122 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER FIVE DEPARTURE

SL-325 (FAA)

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADOTAKE-OFF MINIMUMS:
All runways standard.NOTE: RADAR required
NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-1. 14 JAN 2010 to 11 FEB 2010

DENVER FIVE DEPARTURE

SL-325 (FAA)

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADO

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

LOC/DME I-DCI 110.3 Chan 40	APP CRS 347°	Rwy Idg 8900 TDZE 4665 Apt Elev 4697
---	------------------------	---

ILS or LOC RWY 34
GREELEY-WELD COUNTY (GXY)

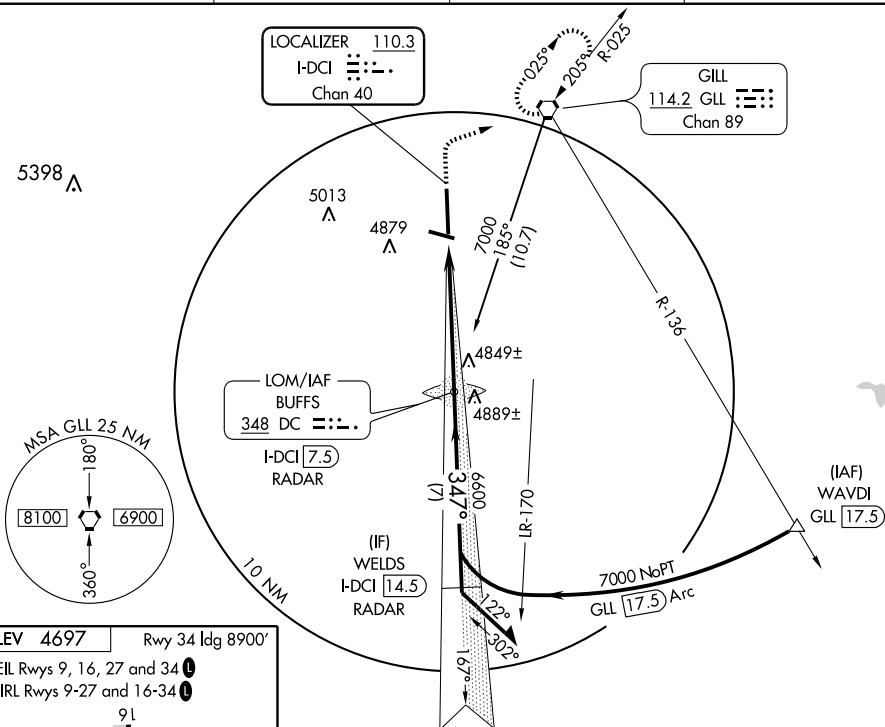
▼ Use I-DCI DME when on localizer course.
▲ When local altimeter setting not received, use Fort Collins-Loveland Muni altimeter setting and increase DA to 4950 feet and all visibility $\frac{1}{4}$ mile; increase all MDA 100 feet and Cat C/D visibility $\frac{1}{4}$ mile.
 VDP NA when using Fort Collins-Loveland Muni altimeter setting.

MISSED APPROACH: Climb to 5200 then climbing right turn to 7000 direct GLL VORTAC and hold, continue climb-in-hold to 7000.

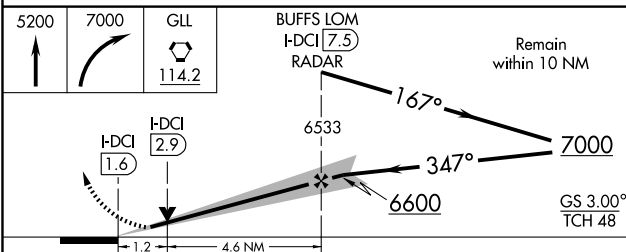
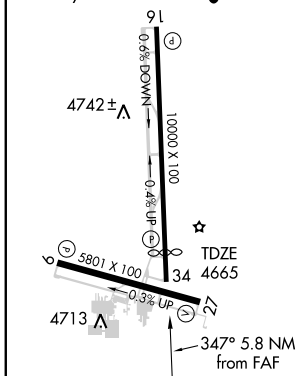
AWOS-3
135.175

DENVER APP CON
134.85 251.125

CLNC DEL
126,65

UNICOM
122.8 (CTAF) **L**

ELEV 4697	Rwy 34 ldg 8900'
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REIL Rwys 9, 16, 27 and 34 **L**MIRL Rwy 9-27 and 16-34 **L**

						CATEGORY	A	B	C	D
S-ILS 34						4865- $\frac{3}{4}$ 200 (200- $\frac{3}{4}$)				
S-LOC 34						5100-1 435 (500-1)		5100-1 $\frac{1}{4}$ 435 (500-1 $\frac{1}{4}$)		5100-1 $\frac{1}{2}$ 435 (500-1 $\frac{1}{2}$)
CIRCLING						5120-1 423 (500-1)		5160-1 503 (600-1 $\frac{1}{2}$)		5200-1 $\frac{1}{2}$ 563 (600-2)
FAF to MAP 5.8 NM										
Knots	60	90	120	150	180					
Min:Sec	5:48	3:52	2:54	2:19	1:56					



NOTE: Adjacent STAR is SAYGE ARRIVAL.

NOTE: Chart not to scale.

NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.LANDR5): From over CYS VORTAC via CYS R-099 and BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

ELJAY TRANSITION (ELJAY.LANDR5): From over ELJAY INT via GLL R-060 to FONTO INT, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

SCOTTSBLUFF TRANSITION (BFF.LANDR5): From over BFF VORTAC via BFF R-173 to LIBIE INT; then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

YANKI TRANSITION (YANKI.LANDR5): From over YANKI INT via SNY R-062 to SNY VORTAC, then via SNY R-214 and DVV R-035 to LANDR INT. Thence....

....From over LANDR INT via DVV R-035 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

DENVER APP CON
120.35 379.3
BUCKLEY AFB ATIS
119.675 259.3
CENTENNIAL ATIS
120.3
DENVER INTL ATIS ARR
125.6
FRONT RANGE ATIS
119.025
ROCKY MOUNTAIN METRO ATIS
126.25

GILL
114.2 GLL ::::
Chan 89
N40°30.23'-W104°33.18'

FORT COLLINS-
LOVELAND MUNI 

 GREELEY-
WELD COUNTY

DENVER
117.9 DEN 
Chan 126
N39°48.75'-W104°

JEFFCO
115.4 BJC
Chap 101

HUUGE
N39°34.72'
W104°47.91'

PAYDD
N39°24.10'
W105°04.73'

FALCON
116.3 FQF 
Chan 110
N39°41.41'
W104°37.26'

LARKS
N39°15.44'-W105°18.31'
VERTICAL NAVIGATION
PLANNING INFORMATION

TURBOJETS: Expect to cross at 17000 and 250 KIAS or as assigned by ATC.

RED TABLE
113.0 DBL 
Chan 77

BLUE MESA
114.9 HBU 
Chan 96

BLACK FOREST
12.5 BRK 
Chn 72

PAPPA
N38°29.61'
W106°28.70'

LOPEC
N38°05.56
W106°51.5
H-3

RATTLESNAKE
115.3 RSK 
Chan 100
6°44.90'-W108°05.93'
L-8. H-4

ON
1.75'
9.51'

ALAMOSA
113.9 ALS $\therefore \equiv \cdot \cdot$
Chan 86
7°20.95'-W 105°48.93'
L-8-9, H-4-5

PUEBLO
116.7 PUB 
Chan 114
N38°17.66'-W104°25.77'
L-10, H-5

NOTE: Adjacent STAR is POWDR ARRIVAL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-1 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

ALAMOSA TRANSITION (ALS.LARKS6): From over ALS VORTAC via ALS R-339 and FQF R-220 to LARKS INT. Thence....

LOPEC TRANSITION (LOPEC.LARKS6): From over LOPEC INT via RSK R-022 and FQF R-220 to LARKS INT. Thence....

PUEBLO TRANSITION (PUB.LARKS6): From over PUB VORTAC via PUB R-262 to KANON INT; then via ALS R-339 and FQF R-220 to LARKS INT. Thence....

RATTLESNAKE TRANSITION (RSK.LARKS6): From over RSK VORTAC via RSK R-022 and FQF R-220 to LARKS INT. Thence....

....From over LARKS INT via FQF R-220 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

LOM DC	APP CRS	Rwy Idg	8900
<u>348</u>	347°	TDZE	4665
		Apt Elev	4697

NDB RWY 34

GREELEY-WELD COUNTY (GXY)



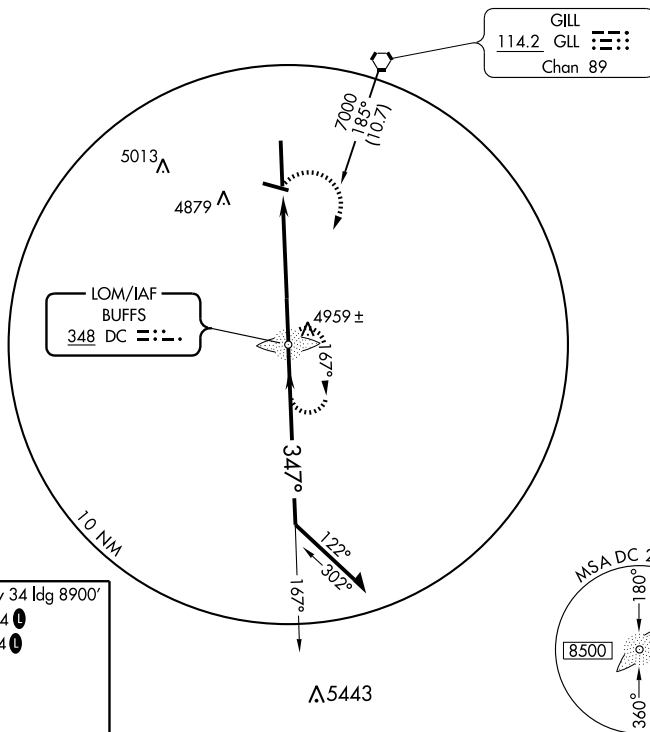
MISSED APPROACH: Climbing right turn to 7000 direct BUFFS LOM and hold, continue climb-in-hold to 7000.

AWOS-3
135.175

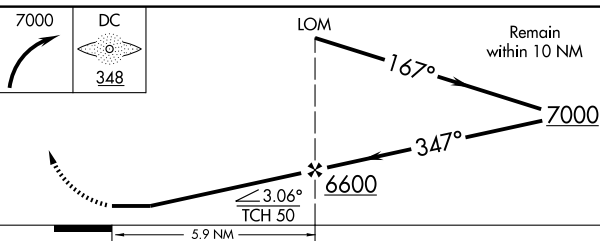
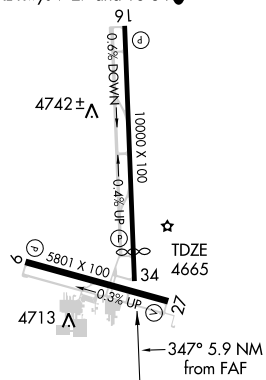
DENVER APP CON
134.85 251.125

CLNC DEL
126.65

UNICOM
122.8 (CTAF) **L**



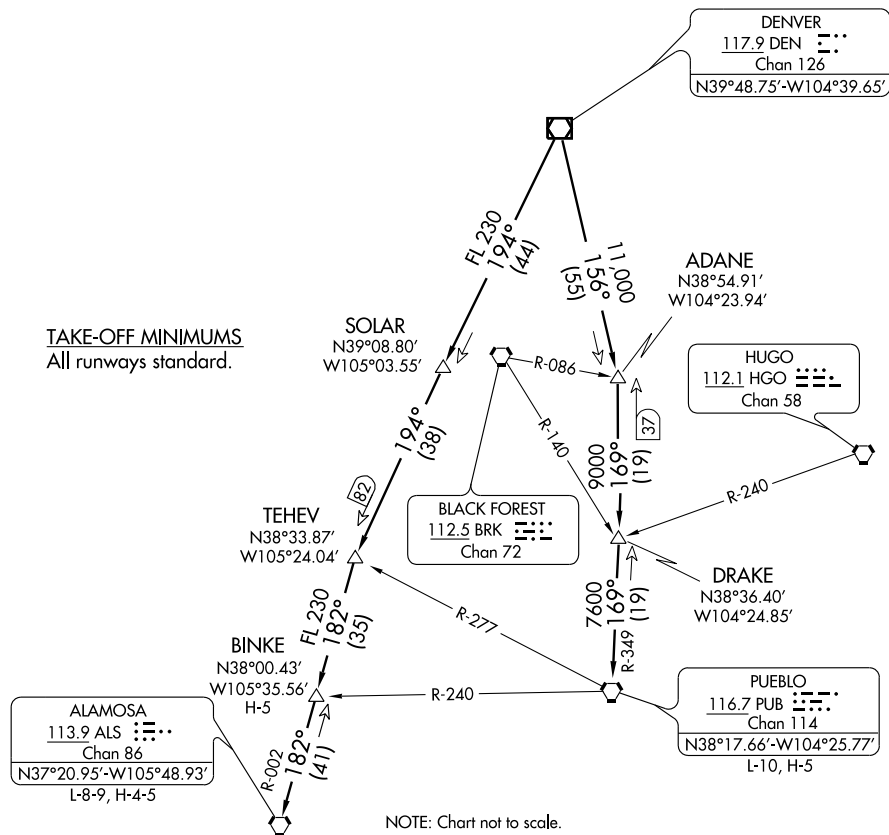
ELEV 4697	Rwy 34 ldg 8900'
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REIL Rwys 9, 16, 27 and 34 **L**MIRL Rwy 9-27 and 16-34 **L**

		← 347° 5.9 NM from FAF				CATEGORY		A		B		C		D	
FAF to MAP 5.9 NM						S-34		5180-1		515 (500-1)		5180-1½ 515 (500-1½)		5180-1¾ 515 (500-1¾)	
Knots	60	90	120	150	180	CIRCLING		5180-1		483 (500-1)		5200-1½ 503 (600-1½)		5260-2 563 (600-2)	
Min:Sec	5:54	3:56	2:57	2:22	1:58										

PIKES FOUR DEPARTURE

SL-325 (FAA)

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADOCLNC DEL
126.65
DENVER DEP CON
134.85 251.125TAKE-OFF MINIMUMS
All runways standard.

DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

ALAMOSA TRANSITION (PIKES4.ALS): From over DEN VOR/DME via DEN R-194 and ALS R-002 to ALS VORTAC.

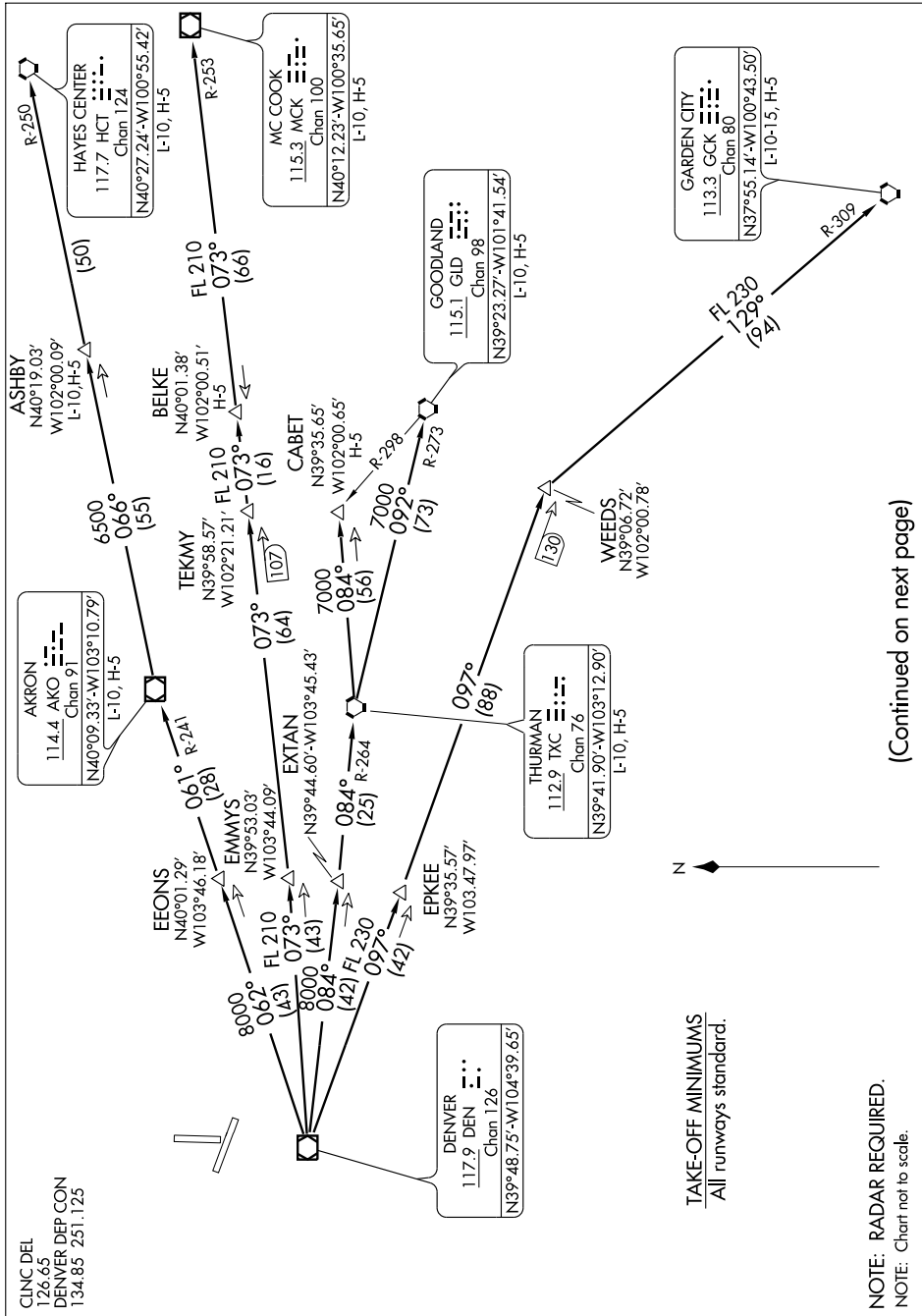
BINKE TRANSITION (PIKES4.BINKE): From over DEN VOR/DME via DEN R-194 and ALS R-002 to BINKE INT.

PUEBLO TRANSITION (PIKES4.PUB): From over DEN VOR/DME via DEN R-156 and PUB R-349 to PUB VORTAC.

PLAINS FOUR DEPARTURE

SL-325 (FAA)

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADO



(Continued on next page)

SW-1. 14 JAN 2010 to 11 FEB 2010

NOTE: RADAR REQUIRED.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10,000 feet, cross DEN VOR/DME at or above 11,000 feet.

AKRON TRANSITION (PLAIN4.AKO): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME.

ASHBY TRANSITION (PLAIN4.ASHBY): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to ASHBY INT.

BELKE TRANSITION (PLAIN4.BELKE): From over DEN VOR/DME via DEN R-073 and MCK R-253 to BELKE INT.

CABET TRANSITION (PLAIN4.CABET): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-084 to CABET INT.

GARDEN CITY TRANSITION (PLAIN4.GCK): From over DEN VOR/DME via DEN R-097 and GCK R-309 to GCK VORTAC.

GOODLAND TRANSITION (PLAIN4.GLD): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC, then via TXC R-092 and GLD R-273 to GLD VORTAC.

HAYES CENTER TRANSITION (PLAIN4.HCT): From over DEN VOR/DME via DEN R-062 and AKO R-241 to AKO VOR/DME, then via AKO R-066 and HCT R-250 to HCT VORTAC.

MCCOOK TRANSITION (PLAIN4.MCK): From over DEN VOR/DME via DEN R-073 and MCK R-253 to MCK VOR/DME.

THURMAN TRANSITION (PLAIN4.TXC): From over DEN VOR/DME via DEN R-084 and TXC R-264 to TXC VORTAC.

WEEDS TRANSITION (PLAIN4.WEEDS): From over DEN VOR/DME via DEN R-097 to WEEDS INT.



ARRIVAL DESCRIPTION

BLUE MESA TRANSITION (HBU.POWDR7): From over HBU VOR/DME via HBU R-038 and DVV R-222 to POWDR INT. Thence....

GRAND JUNCTION TRANSITION (JNC.POWDR7): From over JNC VORTAC via JNC R-082 to GRIPP INT; then via HBU R-038 and DVV R-222 to POWDR INT. Thence....

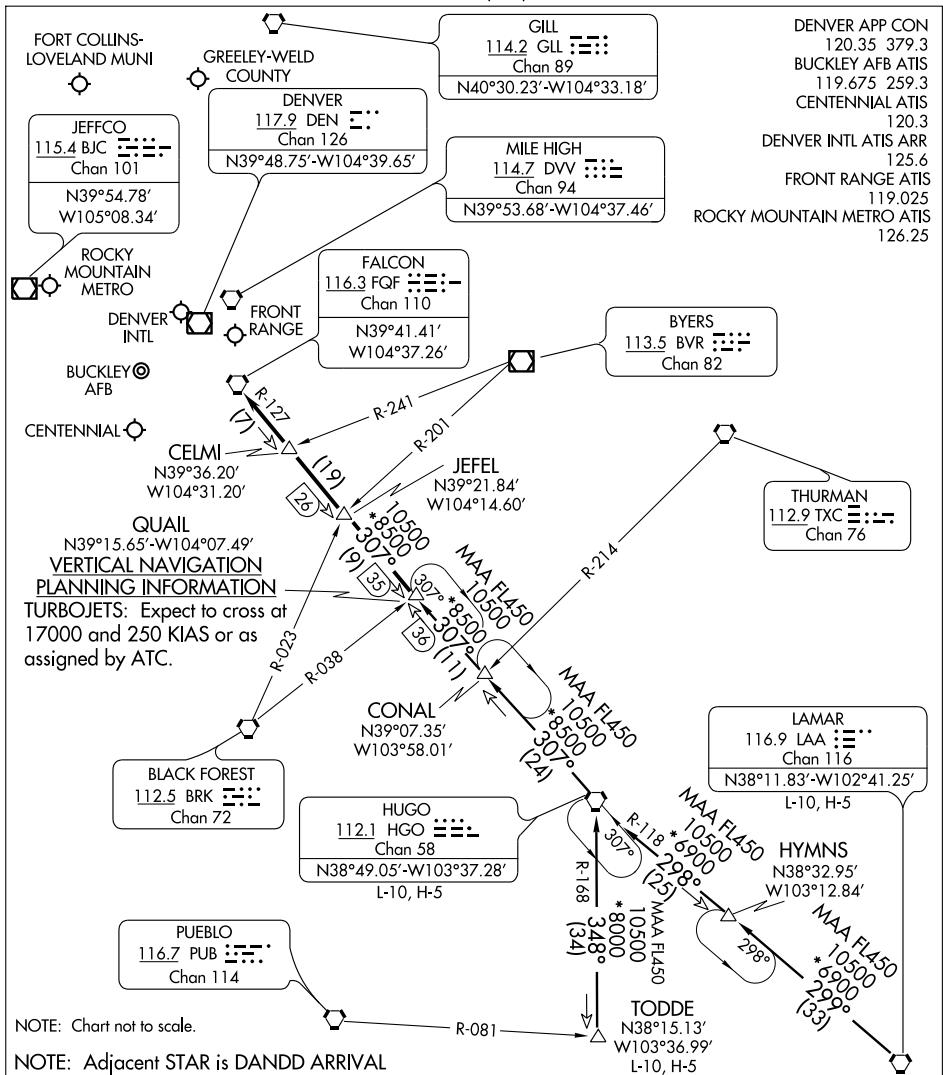
RED TABLE TRANSITION (DBL.POWDR7): From over DBL VOR/DME via DBL R-093 and DVV R-222 to POWDR INT. Thence....

....from over POWDR INT via DVV VORTAC R-222 to HLLIE, then via DVV VORTAC R-222 to SLOPE, then via DVV VORTAC R-222 to DVV. Expect radar vectors to the final approach course at or before DVV VORTAC.

QUAIL SIX ARRIVAL

ST-9077 (FAA)

DENVER, COLORADO



HUGO TRANSITION (HGO.QUAIL6): From over HGO VORTAC via HGO R-307 to CONAL INT; then via 306° course to QUAIL INT. Thence....

LAMAR TRANSITION (LAA.QUAIL6): From over LAA VORTAC via LAA R-299 to HYMNS INT; then via 298° course to HGO VORTAC; then via HGO R-307 to CONAL INT then via 306° course to QUAIL INT. Thence....

TODDE TRANSITION (TODDE.QUAIL6): From over TODDE INT via HGO R-168 to HGO VORTAC; then via HGO R-307 to QUAIL INT. Thence....

....From over QUAIL INT via HGO R-307 and FQF R-127 to FQF VORTAC.
 Expect radar vectors to the final approach course at or before FQF VORTAC.

ST-9077 (FAA)

DENVER, COLORADO



(NARRATIVE ON FOLLOWING PAGE)

NOTE: DME required for ROCK SPRINGS TRANSITION for Changeover Point.

NOTE: Adjacent STAR is TOMSN ARRIVAL.

NOTE: Chart not to scale.

ARRIVAL DESCRIPTION

CHEYENNE TRANSITION (CYS.RAMMS5): From over CYS VORTAC via CYS R-203 and DVV R-311 to RAMMS INT. Thence....

LARAMIE TRANSITION (LAR.RAMMS5): From over LAR VORTAC via LAR R-151 and DVV R-311 to RAMMS INT. Thence....

MEDICINE BOW TRANSITION (MBW.RAMMS5): From over MBW VOR/DME via MBW R-147 and DVV R-311 to RAMMS INT. Thence....

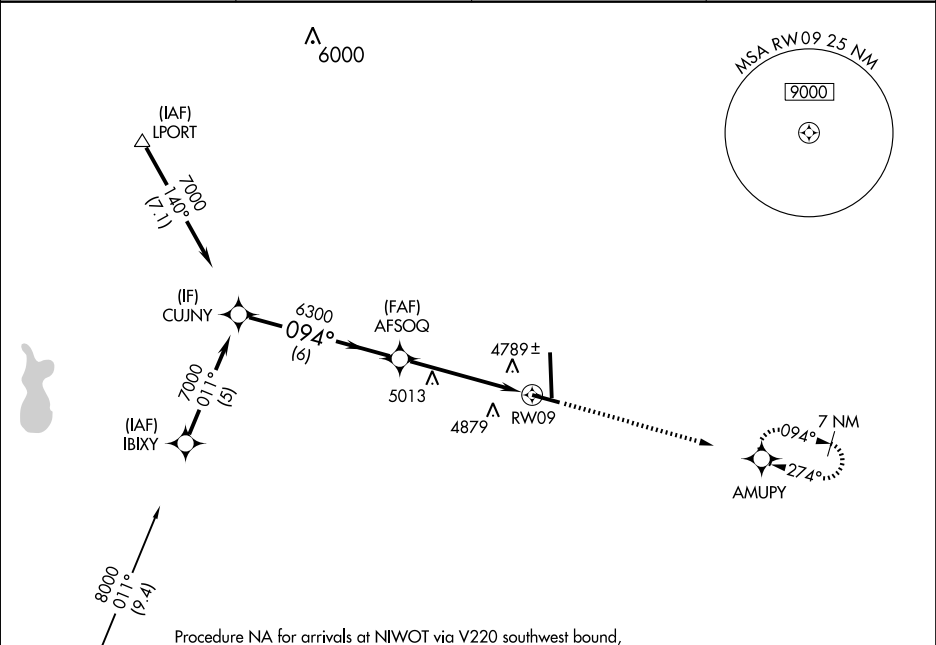
ROCK SPRINGS TRANSITION (OCS.RAMMS5): From over OCS VORTAC via OCS R-093 and GLL R-276 to AUTIM INT, then via DVV R-311 to RAMMS INT. Thence....

....From over RAMMS INT via DVV R-311 to DVV VORTAC. Expect radar vectors to the final approach course at or before DVV VORTAC.

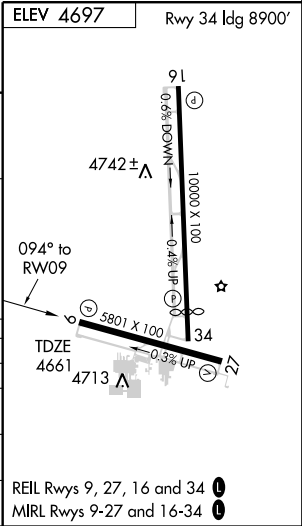
WAAS CH 62900 W09A	APP CRS 094°	Rwy Idg TDZE 5801 Apt Elev 4661 4697
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RNAV (GPS) RWY 9
GREELEY-WELD COUNTY (GX Y)

DME/DME RNP-0.3 NA. Baro-VNAV NA below -24°C (-11°F).		MISSED APPROACH: Climb to 7000 direct AMUPY and hold.	
AWOS-3 135.175	DENVER APP CON 134.85 251.125	CLNC DEL 126.65	UNICOM 122.8 (CTAF) 0



Procedure Turn NA		CUJNY		VGSI and RNAV glidepath not coincident.		7000		AMUPY	
GS 3.00°		TCH 50		6300		094°		*1.9 NM to RW09	
6 NM		3 NM		1.9 NM					
CATEGORY	A	B	C	D					
LPV DA	4911-3/4				250 (300-3/4)				
LNNAV/VNAV DA	5201-2				540 (600-2)				
LNNAV MDA	5320-1 659 (700-1)		5320-1 3/4 659 (700-1 3/4)		5320-2 659 (700-2)				
CIRCLING	5320-2 623 (700-2)								



WAAS CH 72708 W16A	APP CRS 167°	Rwy Idg TDZE Apt Elev	10000 4697 4697
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RNAV (GPS) RWY 16

GREELEY-WELD COUNTY (GXV)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (102°F).

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Fort Collins-Loveland Muni altimeter setting. When local altimeter setting not received, use Fort Collins-Loveland Muni altimeter setting and increase LPV DA to 5063 feet and visibility all Cats ¼ mile. Increase LNAV/VNAV DA to 5207 and visibility all Cats ¼ mile. Increase all MDA 100 feet and LNAV visibility Cats C and D ¼ mile. Increase Circling visibility Cat C ¼ mile.

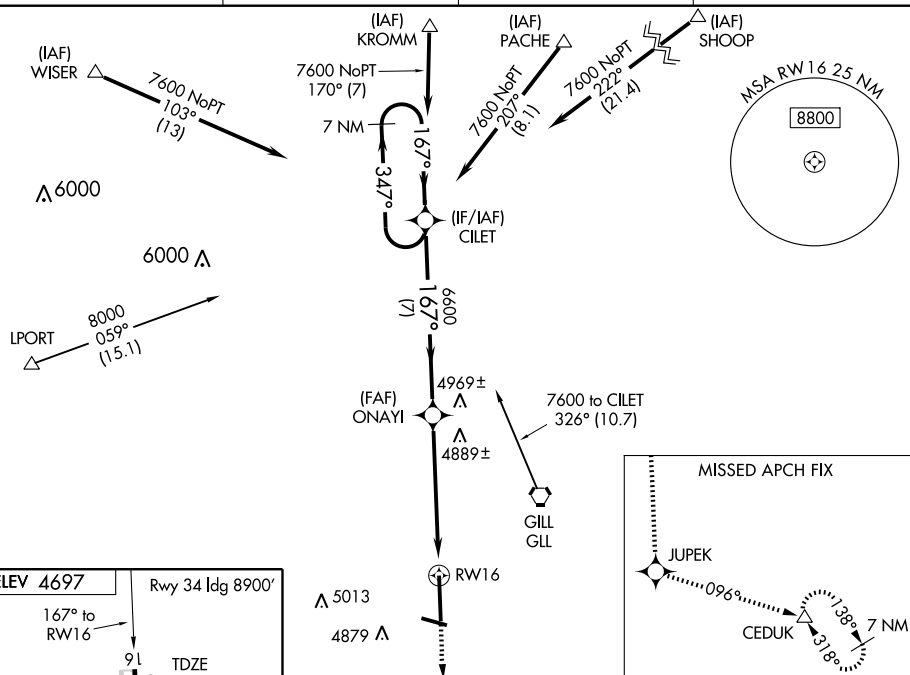
MISSED APPROACH: Climb to 7600 direct JUPEK and via 096° track to CEDUK and hold.

AWOS-3
135.175

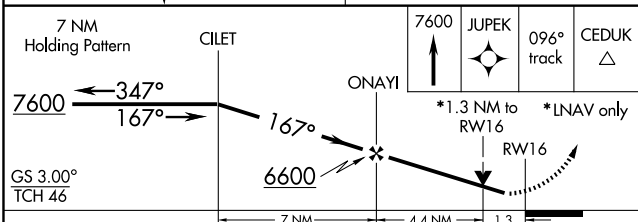
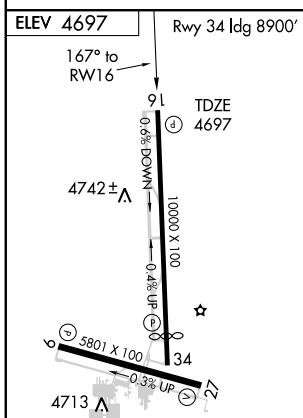
DENVER APP CON
134.85 251.125

CLNC DEL
126.65

UNICOM
122.8 (CTAF) ①



SW-1. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
LPV DA	4978-1 281 (300-1)			
LNAV/VNAV DA	5122-1½ 425 (500-1½)			
LNAV MDA	5140-1 443 (500-1)	5140-1¼ 443 (500-1¼)	5140-1½ 443 (500-1½)	5140-1½ 443 (500-1½)
CIRCLING	5140-1 443 (500-1)	5160-1 463 (500-1)	5200-1½ 503 (600-1½)	5260-2 563 (600-2)

REIL Rwy 9, 16, 27 and 34 ①

MIRL Rwy 9-27 and 16-34 ①

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (102°F). DME/DME RNP -0.3 NA.

▲ VDP and Baro-VNAV NA when using Fort Collins-Loveland Muni altimeter setting. When local altimeter setting not received, use Fort Collins-Loveland Muni altimeter setting and increase LPV DA to 4985 and visibility all Cats ½ mile. Increase LNAV/VNAV DA to 5074 and visibility all Cats ¾ mile. Increase all MDA 100 feet and LNAV visibility Cat C ¼ mile and Cat D ½ mile. Increase Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 8500 direct AFSOQ and hold, continue climb-in-hold to 8500.

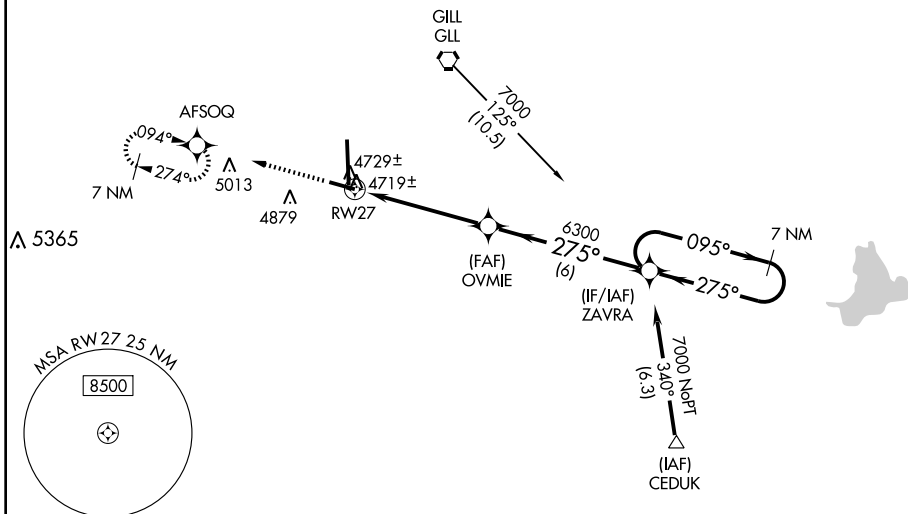
AWOS-3
135.175

DENVER APP CON
134.85 251.125

CLNC DEL
126.65

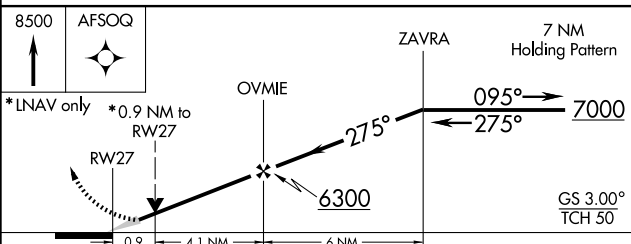
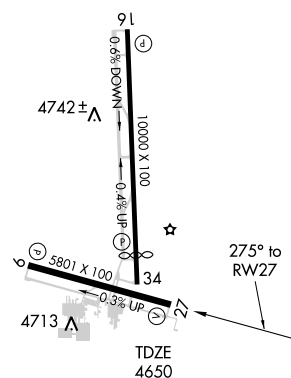
UNICOM
122.8(CTAF) **L**

Procedure NA for arrivals at GLL VORTAC via V220 west bound and V4 northwest bound.



SW-1: 14 JAN 2010 to 11 FEB 2010

ELEV 4697	Rwy 34 ldg 8900'
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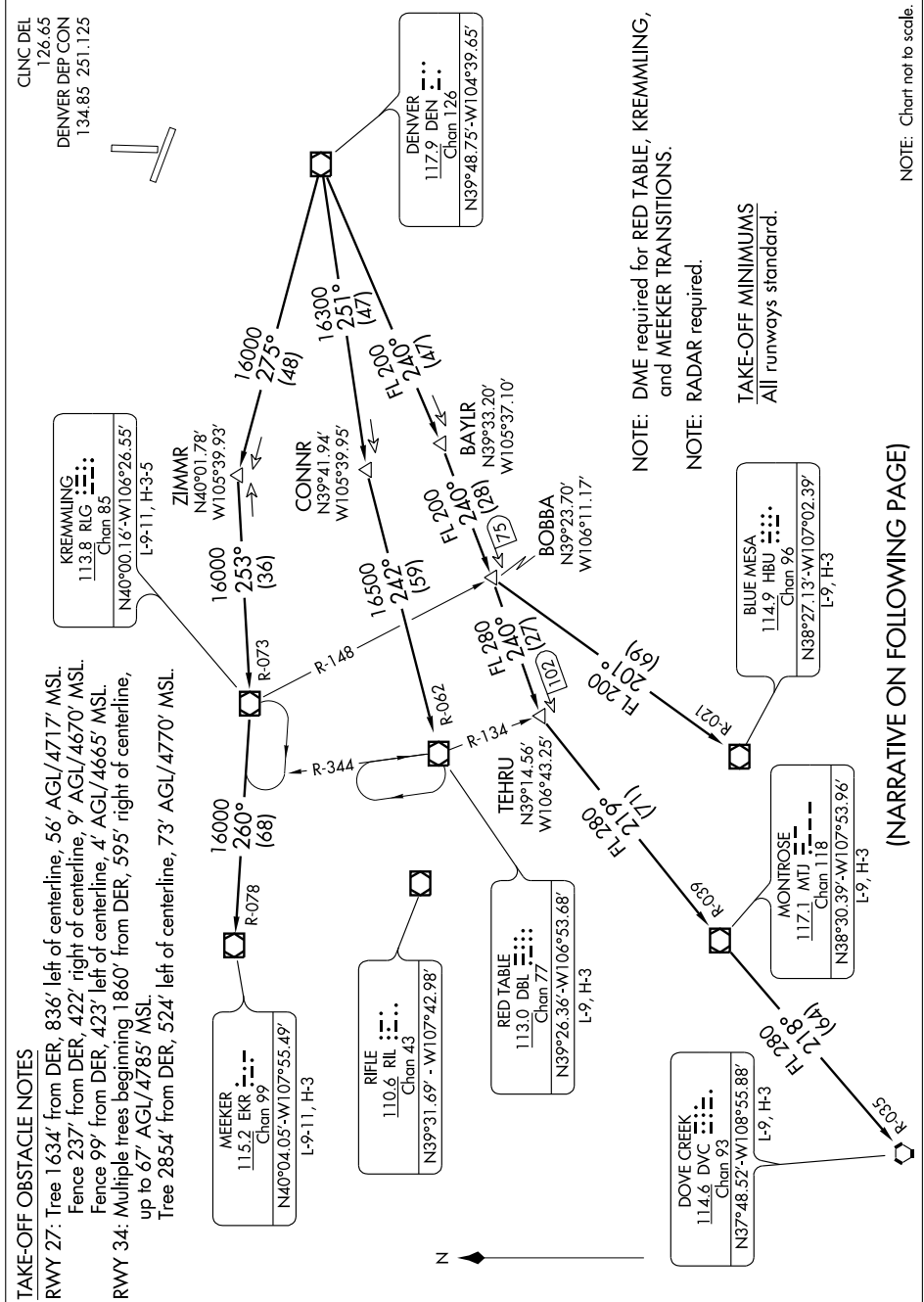
CATEGORY		A	B	C	D
LPV	DA	4900-3 $\frac{3}{4}$ 250 (300-3 $\frac{3}{4}$)			
LNAV/ VNAV	DA	4989-1 $\frac{1}{4}$ 339 (300-1 $\frac{1}{4}$)			
LNAV	MDA	4980-1 330 (300-1)			
CIRCLING		5120-1 423 (500-1)	5160-1 463 (500-1)	5200-1 $\frac{1}{2}$ 503 (600-1 $\frac{1}{2}$)	5260-2 563 (600-2)

REIL Rwys 9, 16, 27 and 34 **L**
MIRL Rwys 9-27 and 16-34 **L**

ROCKIES SEVEN DEPARTURE

SL-325 (FAA)

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADO



(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

BLUE MESA (HI) TRANSITION (ROCKI7.HBU): From over DEN VOR/DME via DEN R-240 and HBU R-021 to HBU VOR/DME.

DOVE CREEK (HI) TRANSITION (ROCKI7.DVC): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME, then via MTJ R-218 and DVC R-035 to DVC VORTAC.

KREMMLING TRANSITION (ROCKI7.RLG): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME.

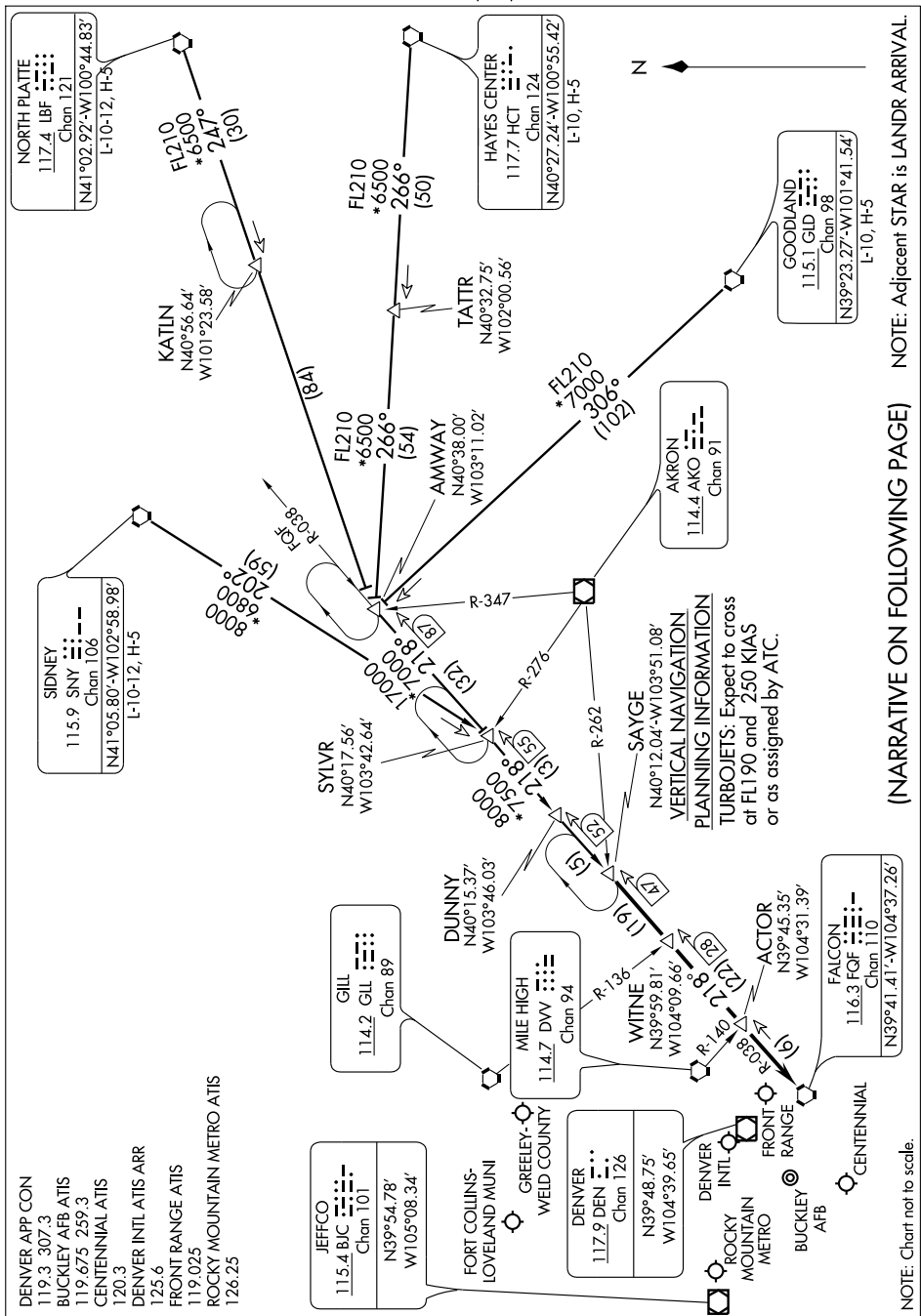
MEEKER TRANSITION (ROCKI7.EKR): From over DEN VOR/DME via DEN R-275 and RLG R-073 to RLG VOR/DME, then via RLG R-260 and EKR R-078 to EKR VOR/DME.

MONTROSE TRANSITION (ROCKI7.MTJ): From over DEN VOR/DME via DEN R-240 and MTJ R-039 to MTJ VOR/DME.

RED TABLE TRANSITION (ROCKI7.DBL): From over DEN VOR/DME via DEN R-251 and DBL R-062 to DBL VOR/DME.

ST-9077 (FAA)

DENVER, COLORADO



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Adjacent STAR is LANDR ARRIVAL.

SW-1. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

GOODLAND TRANSITION (GLD.SAYGE6): From over GLD VORTAC via GLD R-306 and FQF R-038 to SAYGE INT. Thence....

HAYES CENTER TRANSITION (HCT.SAYGE6): From over HCT VORTAC via HCT R-266 and FQF R-038 to SAYGE INT. Thence....

NORTH PLATTE TRANSITION (LBF.SAYGE6): From over LBF VORTAC via LBF R-247 and FQF R-038 to SAYGE INT. Thence....

SIDNEY TRANSITION (SNY.SAYGE6): From over SNY VORTAC via SNY R-202 and FQF R-038 to SAYGE INT. Thence....

....From over SAYGE INT via FQF R-038 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.



ARRIVAL DESCRIPTION

HAYDEN TRANSITION (CHE.TOMSN4): From over CHE VOR/DME via CHE R-076 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

KREMMLING TRANSITION (RLG.TOMSN4): From over RLG VOR/DME via RLG R-025 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

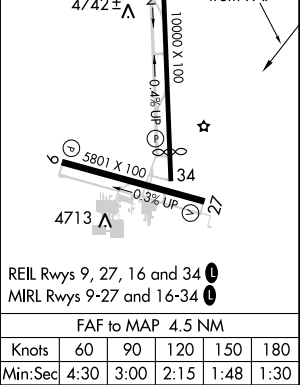
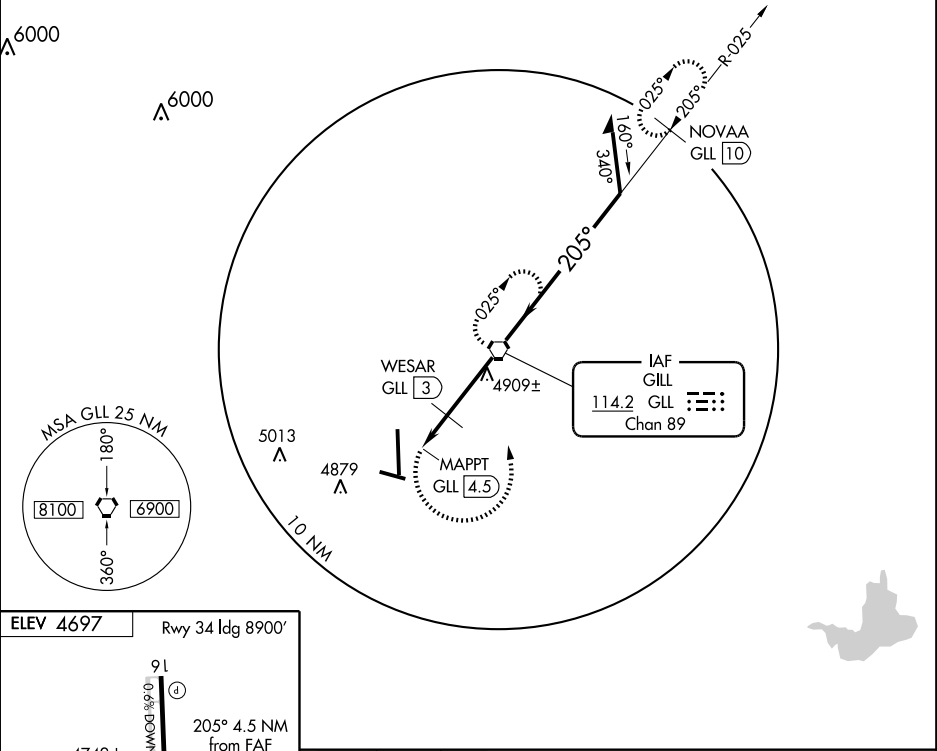
MEEKER TRANSITION (EKR.TOMSN4): From over EKR VOR/DME via EKR R-058 and GLL R-258 to RIDJE INT; then via FQF R-306 to TOMSN INT. Thence....

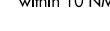
....From over TOMSN INT via FQF R-306 to FQF VORTAC. Expect radar vectors to the final approach course at or before FQF VORTAC.

VORTAC GLL 114.2 Chan 89	APP CRS 205°	Rwy Idg TDZE Apt Elev 4697	N/A N/A 4697
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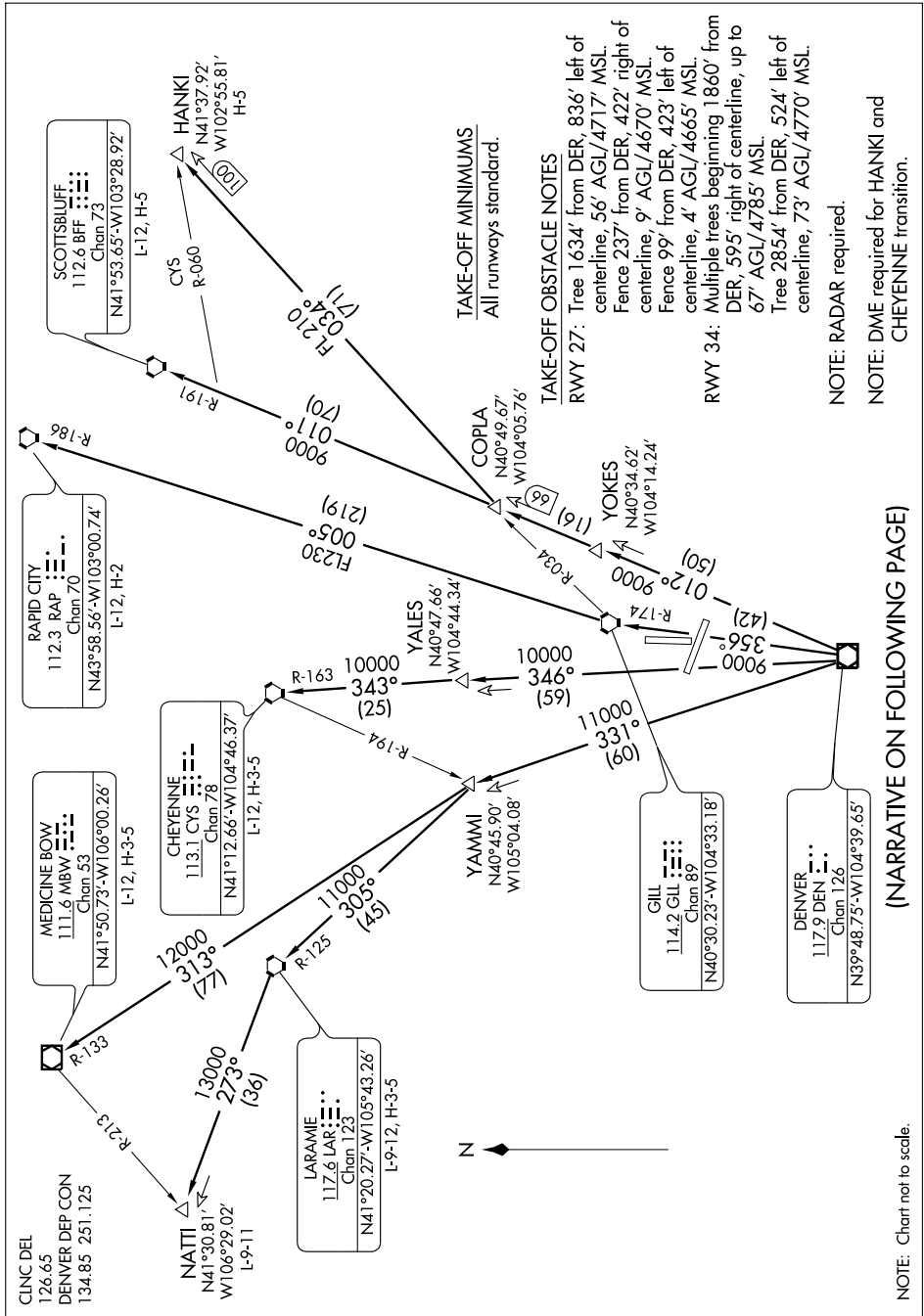
VOR or TACAN-A
GREELEY-WELD COUNTY (GXY)

▼ ▲ When local altimeter setting not received, use Fort Collins-Loveland Muni altimeter setting and increase all MDA 100 feet. Increase Cat C visibility ¼ mile.	MISSED APPROACH: Climbing left turn to 7000 direct GLL VORTAC and hold, continue climb-in-hold to 7000. (TACAN Aircraft continue via GLL R-025 to NOVAA/10 DME and hold NE, right turns, 205° inbound.)		
AWOS-3 135.175	DENVER APP CON 134.85 251.125	CLNC DEL 126.65	UNICOM 122.8(CTAF)0



7000 		GLL  114.2				
		WESAR GLL 3	VORTAC 		Remain within 10 NM 	
 MAPPT GLL 4.5		5200 		7000 		
		1.5 NM 		3 NM 		
CATEGORY	A		B		C	D
CIRCLING	5200-1		503 (600-1)		5200-1½ 503 (600-1½)	5260-2 563 (600-2)
WESAR FIX MINIMUMS						
CIRCLING	5120-1 423 (500-1)	5160-1 463 (500-1)	5200-1½ 503 (600-1½)	5260-2 563 (600-2)		

YELLOWSTONE SIX DEPARTURE



YELLOWSTONE SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

Fly assigned heading and altitude for radar vectors to assigned transition.
Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, maintain assigned heading until 7000 feet, then climb to filed altitude via direct DEN VOR/DME, thence via assigned transition. If filed altitude is above 10000 feet, cross DEN VOR/DME at or above 11000 feet.

CHEYENNE TRANSITION (YELLOW6.CYS): From over DEN VOR/DME via DEN R-346 and CYS R-163 to CYS VORTAC.

HANKI TRANSITION (YELLOW6.HANKI): From over DEN VOR/DME via DEN R-012 and GLL R-034 to HANKI INT.

LARAMIE TRANSITION (YELLOW6.LAR): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC.

MEDICINE BOW TRANSITION (YELLOW6.MBW): From over DEN VOR/DME via DEN R-331 and MBW R-133 to MBW VOR/DME.

NATTI TRANSITION (YELLOW6.NATTI): From over DEN VOR/DME via DEN R-331 and LAR R-125 to LAR VORTAC, then via LAR R-273 to NATTI INT.

RAPID CITY TRANSITION (YELLOW6.RAP): From over DEN VOR/DME via DEN R-356 and GLL R-174 to GLL VORTAC, then via GLL R-005 and RAP R-186 to RAP VORTAC.

SCOTTSBLUFF TRANSITION (YELLOW6.BFF): From over DEN VOR/DME via DEN R-012 and BFF R-191 to BFF VORTAC.

APP CRS	Rwy Idg	N/A
245°	TDZE	N/A
	Apt Elev	7680

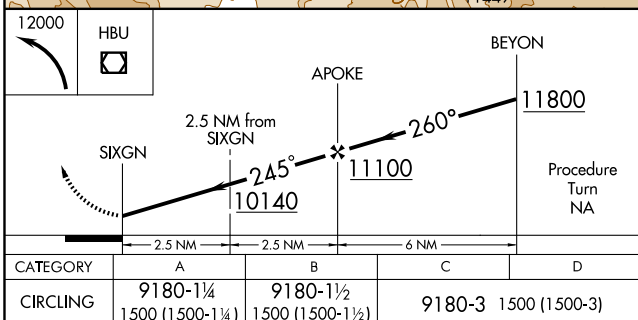
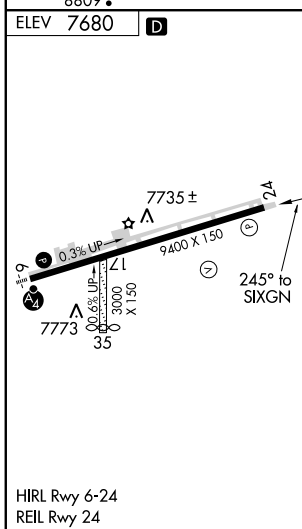
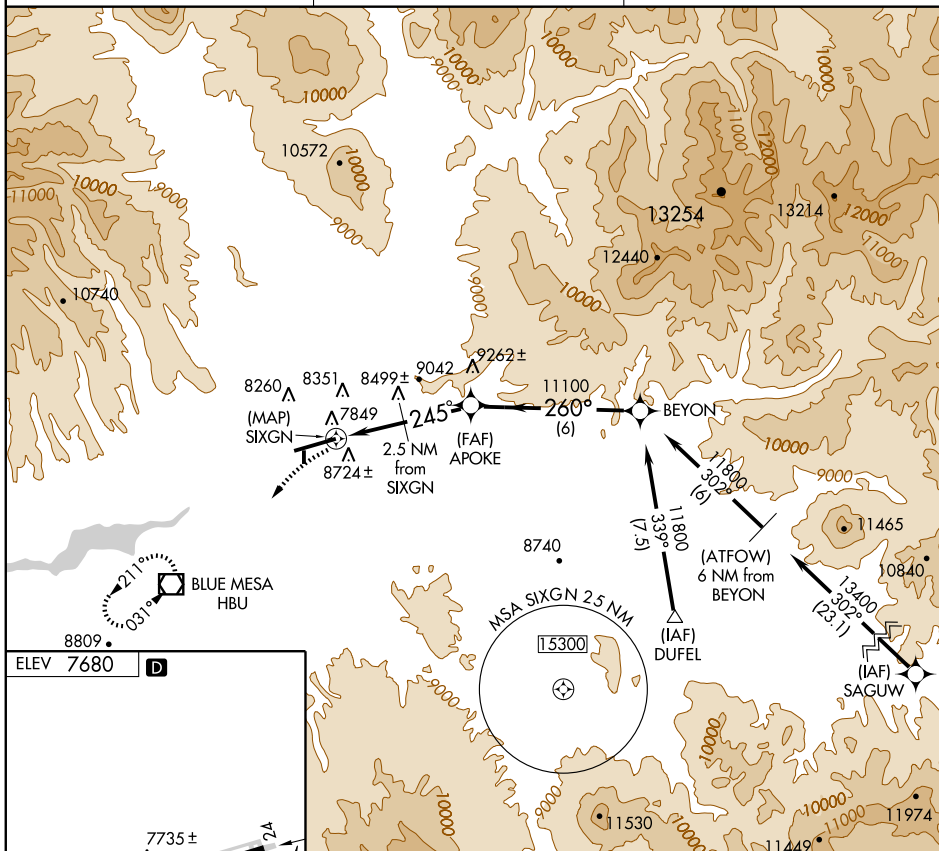
Procedure not authorized when airport closed except by prior arrangement.
DME/DME RNP: 0.3 NA.

MISSED APPROACH: Climbing left turn to 12000 direct HBU VOR/DME and hold.

AWOS-3
135.075

DENVER CENTER
125.35 354.05

UNICOM
122.7 (CTAF) 0



LOC/DME I-GUC	APP CRS	Rwy Idg	9400
110.5	062°	TDZE	7667
Chan 42		Apt Elev	7680

ILS or LOC RWY 6

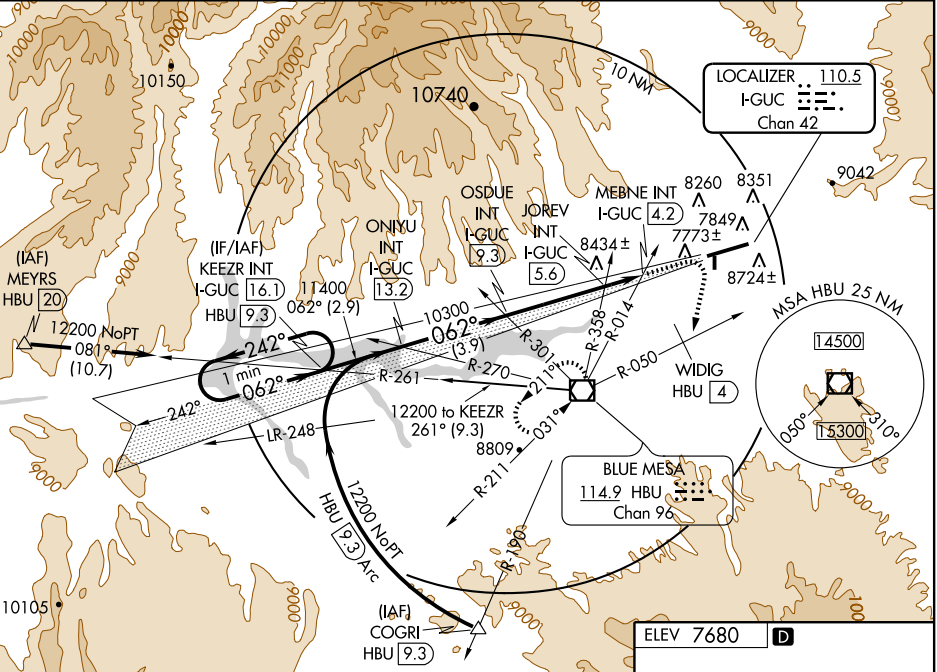
GUNNISON-CRESTED BUTTE RGNL (GUC)

⚠ Circling NA at night. Inoperative table does not apply.
⚠ When local altimeter setting not received, procedure NA.
DME required. Visibility reduction by helicopters NA.
Procedure NA when airport closed except by prior arrangement.

MALSF

MISSED APPROACH: Climb to 10000 then climbing right turn to 12000 via heading 180° and HBU VOR/DME R-050 to WIDIG/HBU 4 DME continue via HBU VOR/DME R-050 to HBU VOR/DME and hold.

AWOS-3 135.075	DENVER CENTER 125.35 354.05	UNICOM 122.7 (CTAF) 0
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One Minute Holding Pattern 12200 ← 242° 062° → 11400 GS 3.20° TCH 49 2.9 NM 3.9 NM 3.7 NM 1.4 NM 2.4 NM					KEEZR INT I-GUC 16.1 ONIYU INT I-GUC 13.2 OSDUE INT I-GUC 9.3 JOREV INT I-GUC 5.6 MEBNE INT I-GUC 4.2 10000 12000 HBU R-050 114.9 WIDIG HBU 4 *LOC only				
CATEGORY		A		B		C		D	
S-ILS 6		8590-3		923 (1000-3)				NA	
S-LOC 6				9020-3		1353 (1400-3)			
CIRCLING				9260-3		1580 (1600-3)			
		JOREV FIX MINIMUMS							
S-LOC 6				8640-3		973 (1000-3)			
CIRCLING				9260-3		1580 (1600-3)			

ELEV 7680 **D**

062° 7.5 NM from FAF

TDZE 7667

0.3% UP

9400 X 150

7773 ±

7773

35

HIRL Rwy 6-24

REIL Rwy 24

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

SW-1. 14 JAN 2010 to 11 FEB 2010

RNAV (RNP) RWY 6
GUNNISON-CRESTED BUTTE RGNL (GUC)

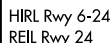
MISSED APPROACH: (Do not exceed 240 KIAS until RNGLE) Climb to 13000 via track 062° to POSLY, and via right turn to JENRO, and via right turn to TIPOC, and via right turn to RNGLE, and via track 306° to HBU VOR/DME and hold.

UNICOM
122.7 (CTAF) **L**

UENRO

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D



**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

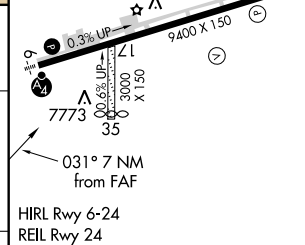
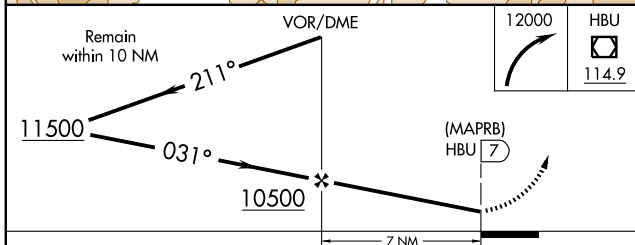
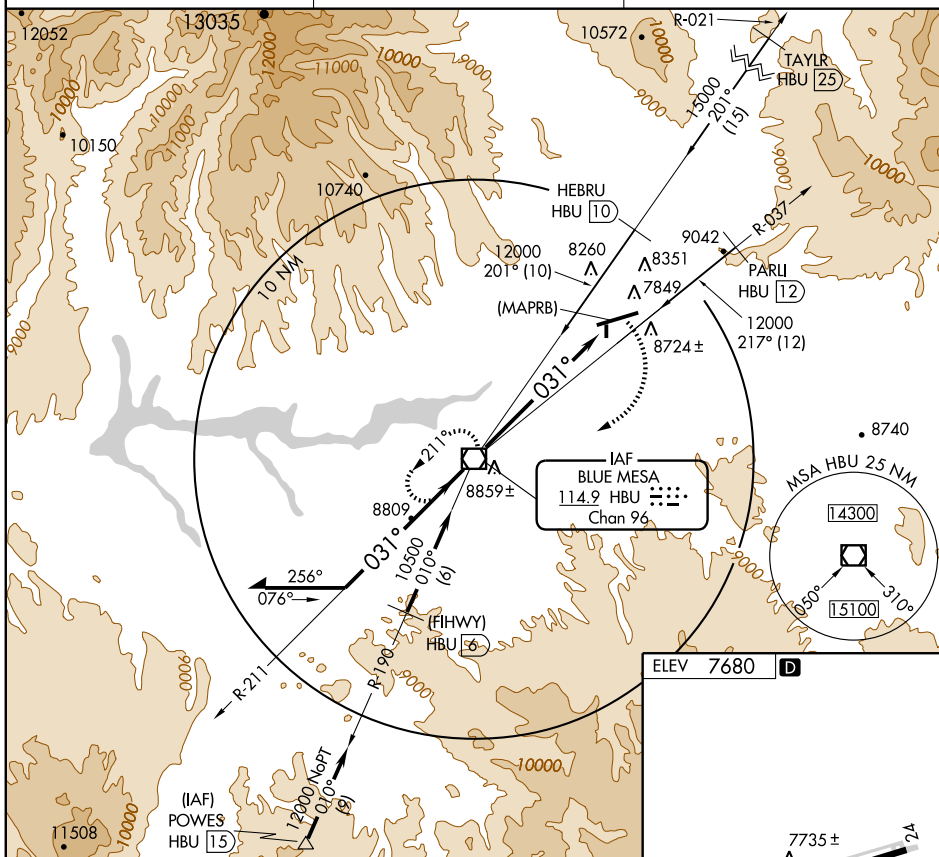
VOR/DME HBU 114.9 Chan 96	APP CRS 031°	Rwy Idg TDZE Apt Elev	N/A N/A 7680
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VOR or GPS-A
GUNNISON-CRESTED BUTTE RGNL (GUC)

T Procedure NA when airport closed except by prior arrangement.
A Obtain local altimeter setting on CTAF; when not received, procedure NA.

MISSED APPROACH: Climbing right turn to 12000 direct HBU VOR/DME and hold.

AWOS-3
135.075

DENVER CENTER
125.35 354.05UNICOM
122.7 (CTAF) **L**

CATEGORY	A	B	C	D	FAF to MAP 7 NM					
CIRCLING	9260-2	9340-2	9340-3	9900-3	Knots	60	90	120	150	180
	1580 (1600-2)	1660 (1700-2)	1660 (1700-3)	2220 (2300-3)	Min:Sec	7:00	4:40	3:30	2:48	2:20

LOC/DME I-HDN <u>109.9</u> Chan 36	APP CRS 101°	Rwy Idg 9490 TDZE 6587 Apt Elev 6602
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ILS or LOC/DME Y RWY 10
HAYDEN/YAMPA VALLEY (HDN)

T
A Inoperative table does not apply.

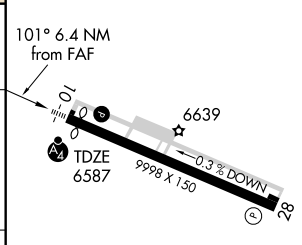
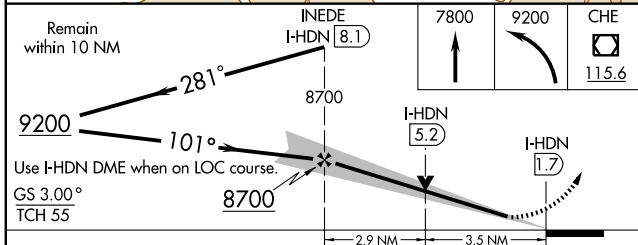
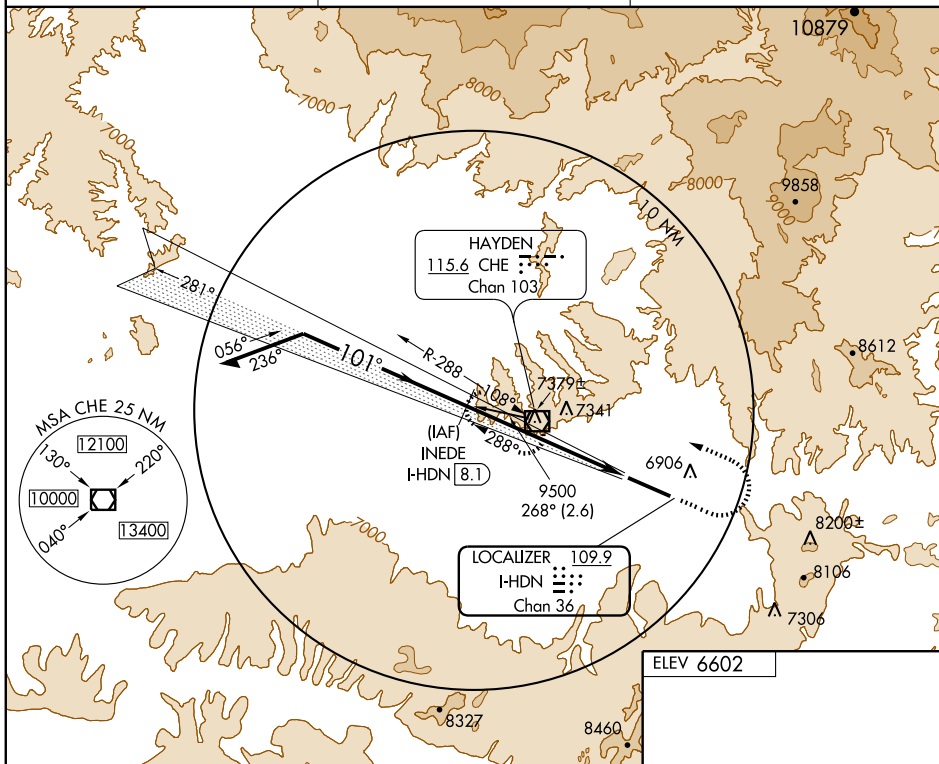
MALSF

MISSED APPROACH: Climb to 7800 then climbing left turn to 9200 direct CHE VOR/DME and hold.

AWOS-3
119.275

DENVER CENTER
120,475 235,975

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
S-ILS 10	7047-1½ 460 (500-1½)			
S-LOC 10	7740-1¼ 1153 (1200-1¼)	7740-1½ 1153 (1200-1½)	7740-3	1153 (1200-3)
CIRCLING	7740-1½ 1138 (1200-1½)		7740-3	1138 (1200-3)

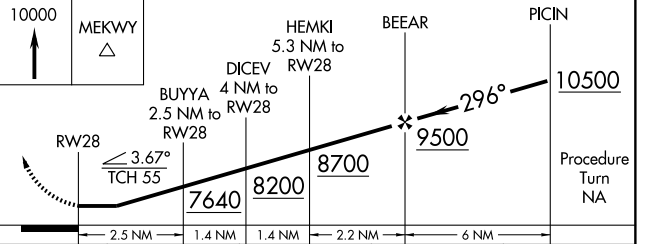
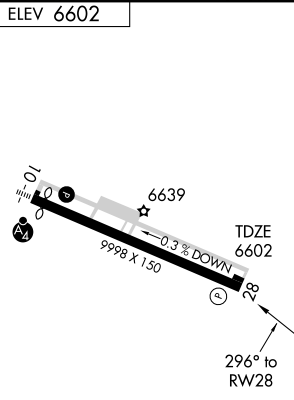
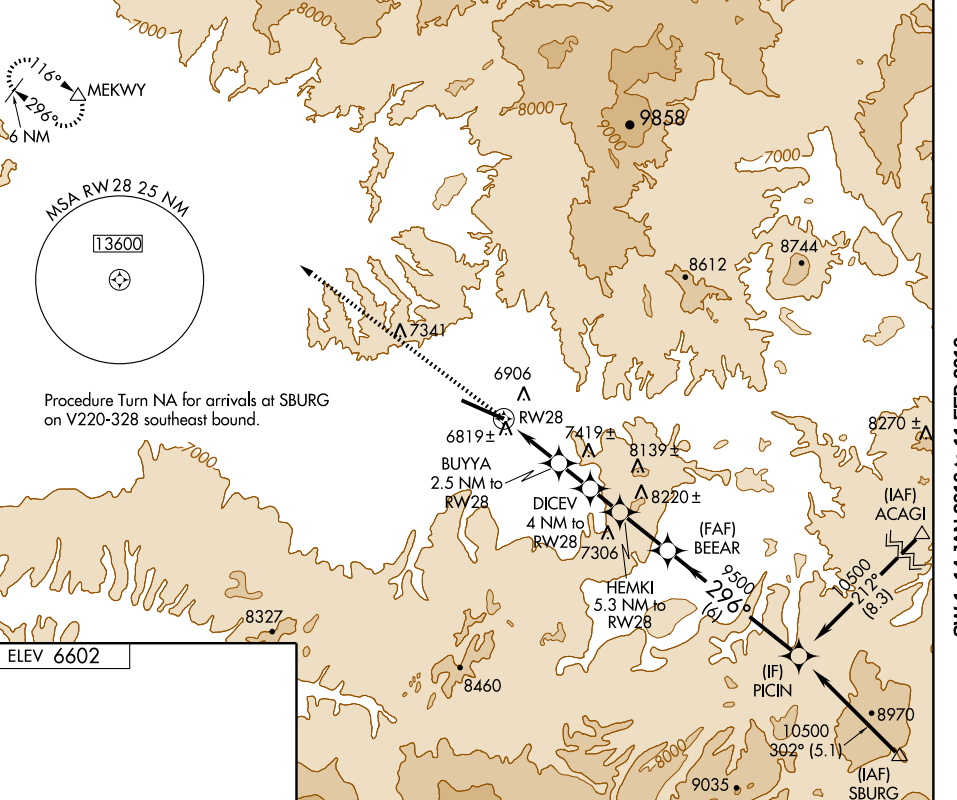
REIL Rwy 28 **L**
HIRL Rwy 10-28 **L**

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Straight in minimums NA at night.

MISSED APPROACH: Climb to 10000 direct MEKWY WP and hold.

AWOS-3 119.275	DENVER CENTER 120.475 235.975	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	7140-1	538 (600-1)	7140-1½ 538 (600-1½)	NA
CIRCLING	7220-1	618 (700-1)	7220-1¾ 618 (700-1¾)	7320-2¼ 718 (800-2¼)

REIL Rwy 28 0
HIRL Rwy 10-28 0

SW-1. 14 JAN 2010 to 11 FEB 2010

WAAS CH 53410 W10A	APP CRS 101°	Rwy Idg 9490 TDZE 6587 Apt Elev 6602
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RNAV (GPS) Y RWY 10

HAYDEN/ YAMPA VALLEY (HDN)

▼ Inoperative table does not apply. DME/DME RNP-0.3 NA.
▲ Baro-VNAV NA when using Craig-Moffatt altimeter setting.
 For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
 -28°C (-18°F) or above 36°C (96°F).
 Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Craig-Moffatt altimeter setting
 and increase all DA/MDA 100 feet, and LPV all Cats visibility ½ mile.
 VDP NA when using Craig-Moffatt altimeter setting.

MALSF

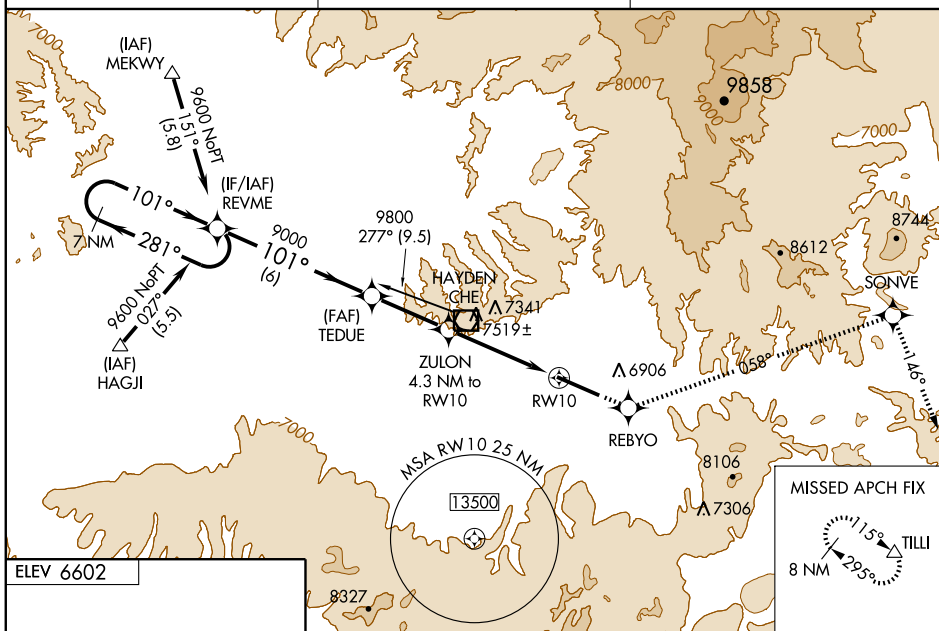


MISSED APPROACH: Climb to 13400 direct REBYO and via 058° track to SONVE and via 146° track to TILLI and hold, continue climb-in-hold to 13400.

AWOS-3
119.275

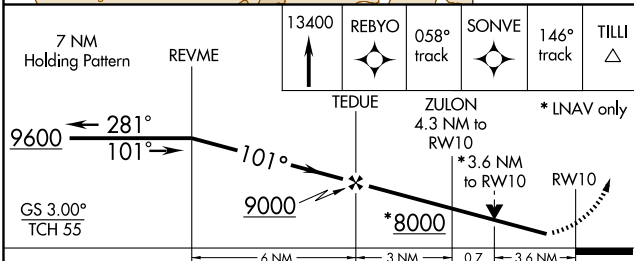
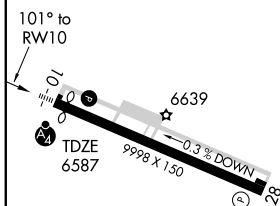
DENVER CENTER
120.475 235.975

UNICOM
123.0 (CTAF) **L**



SW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 6602



CATEGORY	A	B	C	D
LPV DA	7042-1½ 455 (500-1½)			
LNAV/VNAV DA	8356-7 1769 (1800-7)			
LNAV MDA	7780-1¼ 1193 (1200-1¼)	7780-1½ 1193 (1200-1½)	7780-3 1193 (1200-3)	
CIRCLING	7780-1¼ 1178 (1200-1¼)	7780-1½ 1178 (1200-1½)	7780-3 1178 (1200-3)	

REIL Rwy 28 **L**
HIRL Rwy 10-28 **L**

APP CRS 101°	Rwy Idg TDZE Apt Elev	9490 6587 6602
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RNAV (RNP) Z RWY 10

HAYDEN/ YAMPA VALLEY (HDN)

GPS required. Inoperative table does not apply.
 For uncompensated Baro-VNAV systems, procedure NA below -26°C (-15°F) or above 54°C (130°F).
 *Missed approach requires minimum climb of 315 feet per NM to 9200.

MALSF

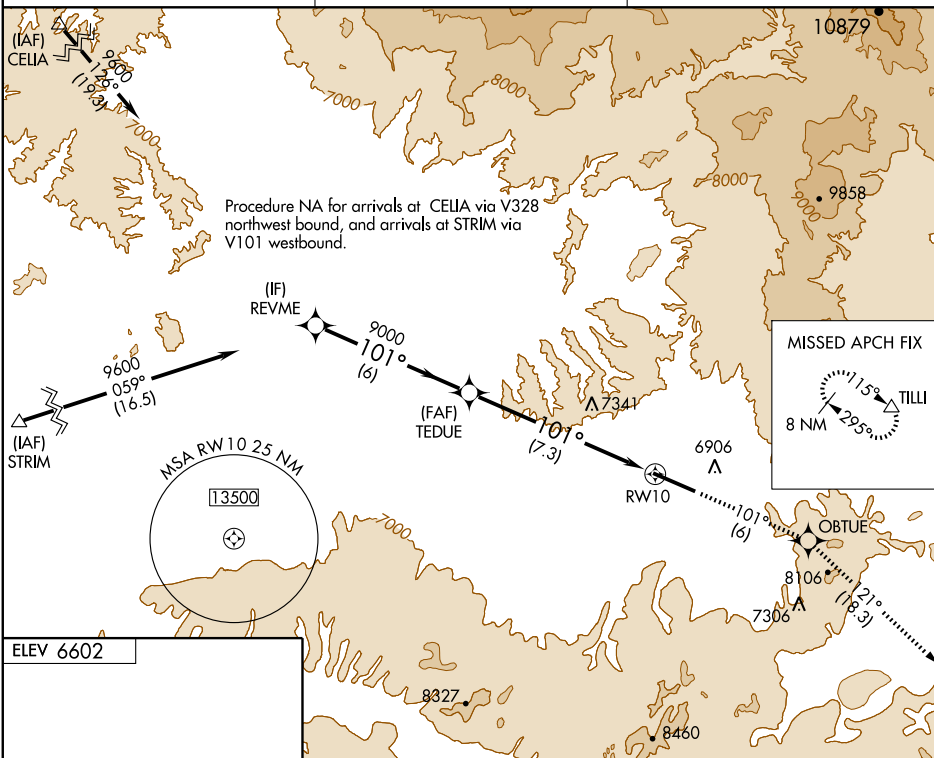


MISSED APPROACH: Climb to 13400 via 101° track to OBTUE and via 121° track to TILLI and hold, continue climb-in-hold to 13400.

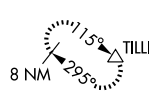
AWOS-3
119.275

DENVER CENTER
120.475 235.975

UNICOM
123.0 (CTAF) 0

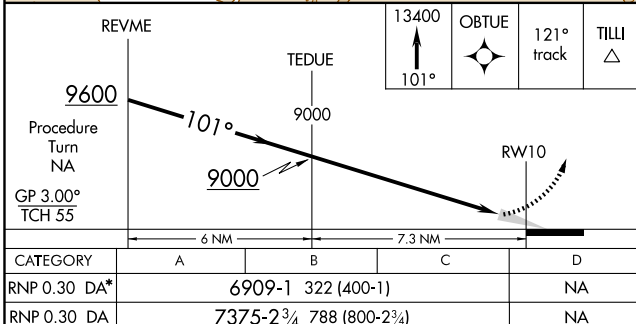
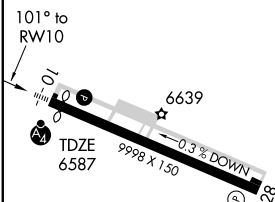


MISSED APCH FIX



SW-1.14 JAN 2010 to 11 FEB 2010

ELEV 6602



REIL Rwy 28 0
 HIRL Rwy 10-28 0

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**

VOR/DME CHE 115.6 Chan 103	APP CRS 285°	Rwy Idg TDZE Apt Elev	N/A N/A 6602
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VOR/DME-B
HAYDEN/YAMPA VALLEY (HDN)

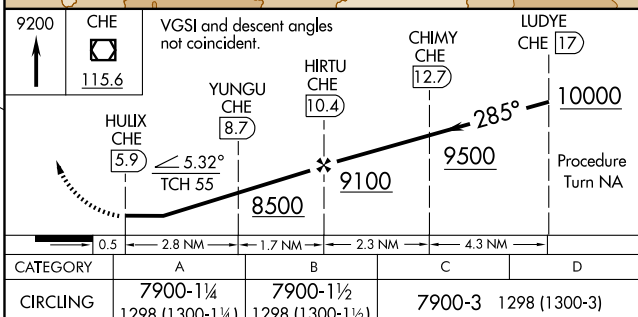
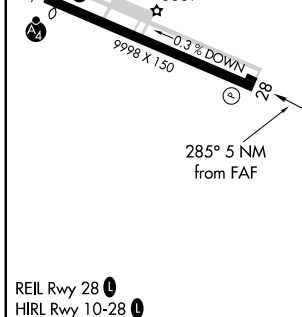
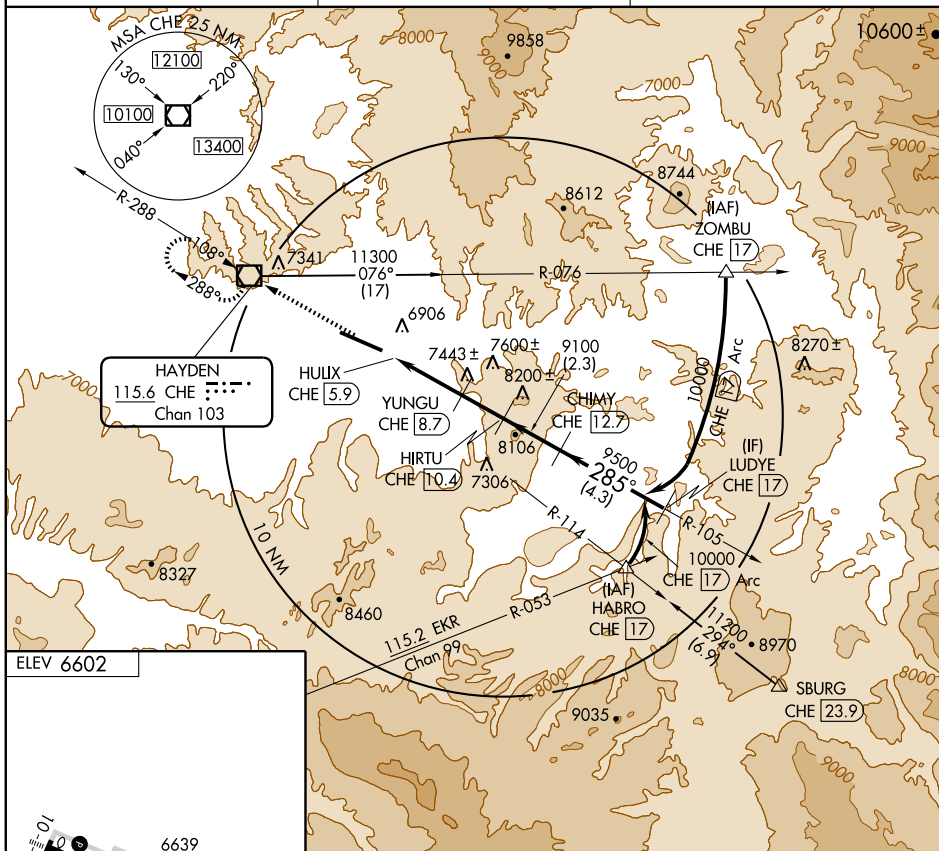
T If local altimeter setting not received, use Craig-Moffat
A altimeter setting and increase all MDAs 100 feet.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9200 direct CHE VOR/DME and hold.

AWOS-3
119,275

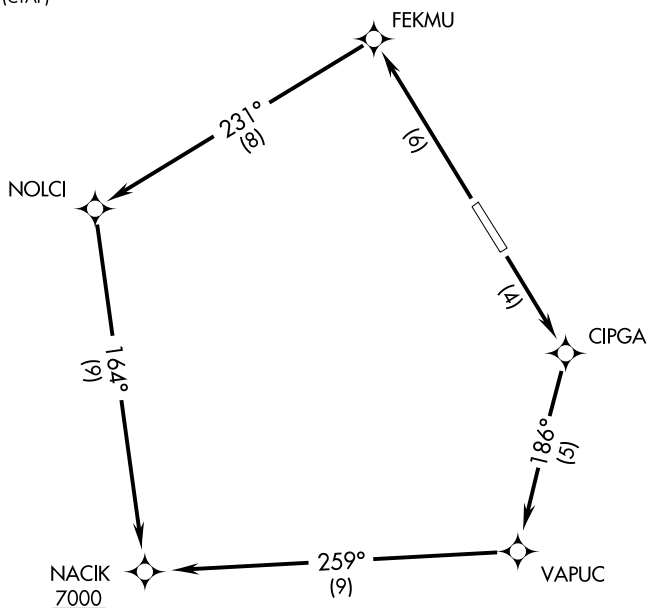
DENVER CENTER
120.475 235.975

UNICOM
123.0 (CTAF) **L**



HOLYOKE TWO DEPARTURE (RNAV)

AWOS-3 119.275
DENVER CENTER
118.475 225.4
UNICOM 122.7 (CTAF)

TAKE-OFF MINIMUMS

Rwy 14, 32: Standard.

TAKE-OFF OBSTACLE NOTES

Rwy 14: Trees 2012' from DER, 29' left of centerline, 100' AGL/3829' MSL.

Rwy 32: Trees 1009' from DER, 697' left of centerline, 100' AGL/3839' MSL.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climb direct CIPGA, then via depicted route to cross NACIK at or above 7000.

TAKE-OFF RUNWAY 32: Climb direct FEKMU, then via depicted route to cross NACIK at or above 7000.

APP CRS	Rwy Idg	5000
141°	TDZE	3730
	Apt Elev	3730

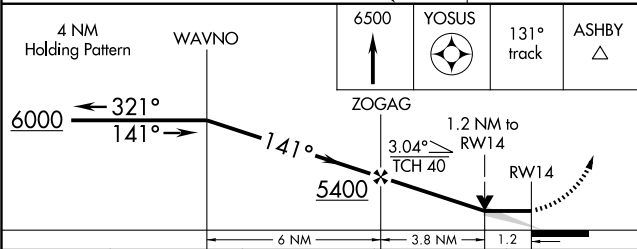
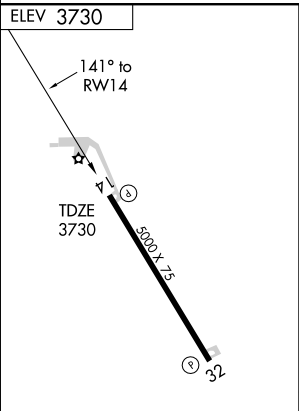
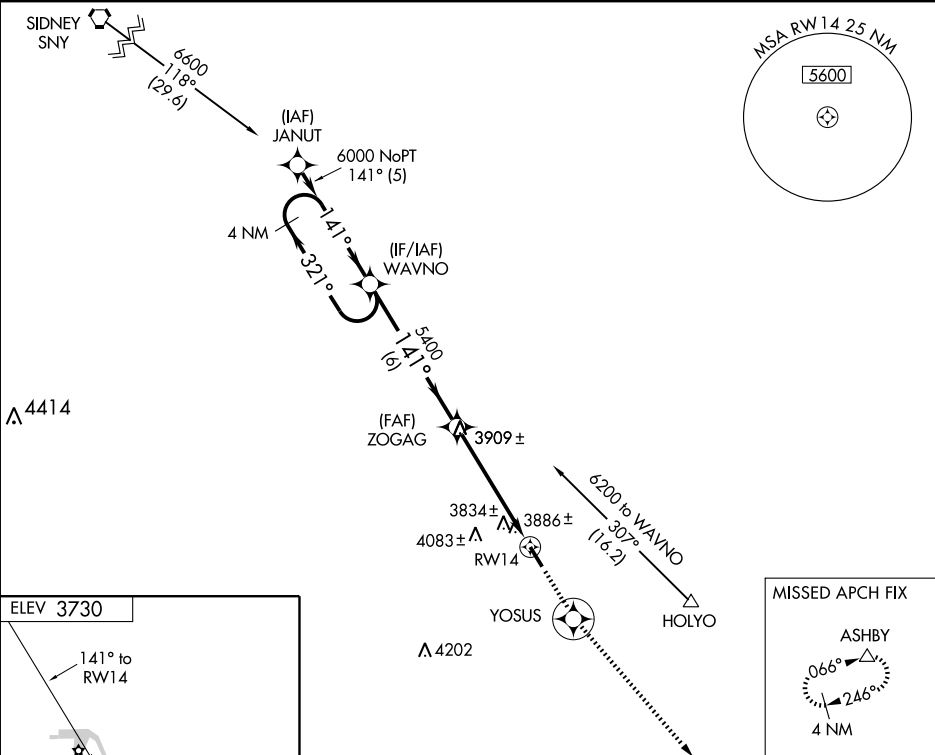
RNAV (GPS) RWY 14

HOLYOKE (HEQ)

NA DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Sidney Muni/
Lloyd W. Carr Field altimeter setting and increase all MDAs 200 feet
and increase LNAV Cat C/D visibility ½ mile, Circling Cat C
visibility ½ mile and Circling Cat D visibility ¾ mile.
VDP NA when using Sidney Muni/Lloyd W. Carr Field altimeter setting.

MISSED APPROACH: Climb to 6500 direct
YOSUS and via 131° track to ASHBY and hold.

AWOS-3 119.275	DENVER CENTER 118.475 225.4	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
LNAV MDA	4160-1	430 (500-1)	4160-1¼ 430 (500-1¼)	4160-1½ 430 (500-1½)
CIRCLING	4200-1 470 (500-1)	4240-1 510 (600-1)	4240-1½ 510 (600-1½)	4400-2 670 (700-2)

MIRL Rwy 14-32 **1**
REIL Rws 14 and 32 **1**

▼

NA

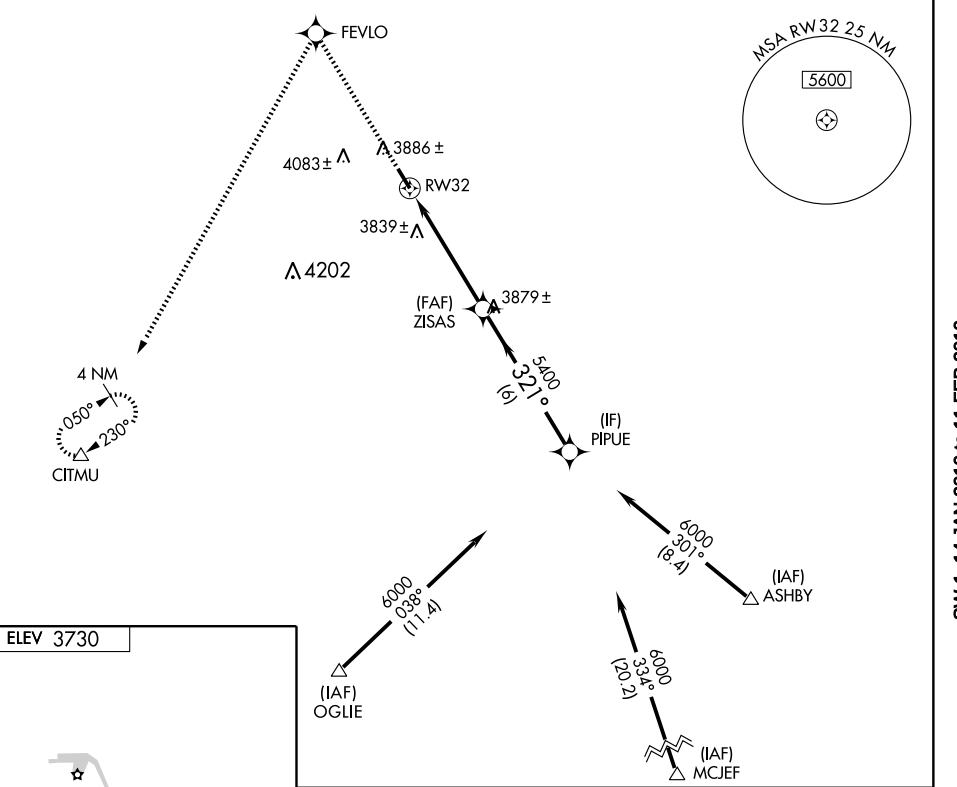
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Sidney Muni / Lloyd W. Carr Field altimeter setting and increase all MDAs 200 feet and increase LNAV Cat. C/D visibility ½ mile, Circling Cat. B/C visibility ¼ mile and Circling Cat. D visibility ¾ mile.

VDP NA when using Sidney Muni / Lloyd W. Carr Field altimeter setting.

MISSED APPROACH:

Climb to 6500 direct FEVLO and left turn via 201° track to CITMU and hold.

AWOS-3 119.275	DENVER CENTER 118.475 225.4	UNICOM 122.7 (CTAF) 
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ELEV 3730	6500	FEVLO	201° track	CITMU	PIPUE	6000
	1.1	1.1 NM to RW32	4 NM	6 NM	Procedure Turn NA	
	1.1	4 NM	6 NM			
CATEGORY	A	B	C	D		
LNAV MDA	4100-1 373 (400-1)				4100-1½ 373 (400-1½)	
CIRCLING	4200-1 470 (500-1)	4240-1 510 (600-1)	4240-1½ 510 (600-1½)		4400-2 670 (700-2)	

APP CRS	Rwy Idg	5540
272°	TDZE	7400
	Apt Elev	7411

GPS RWY 27

KREMMLING/MC ELROY AIRFIELD (20V)



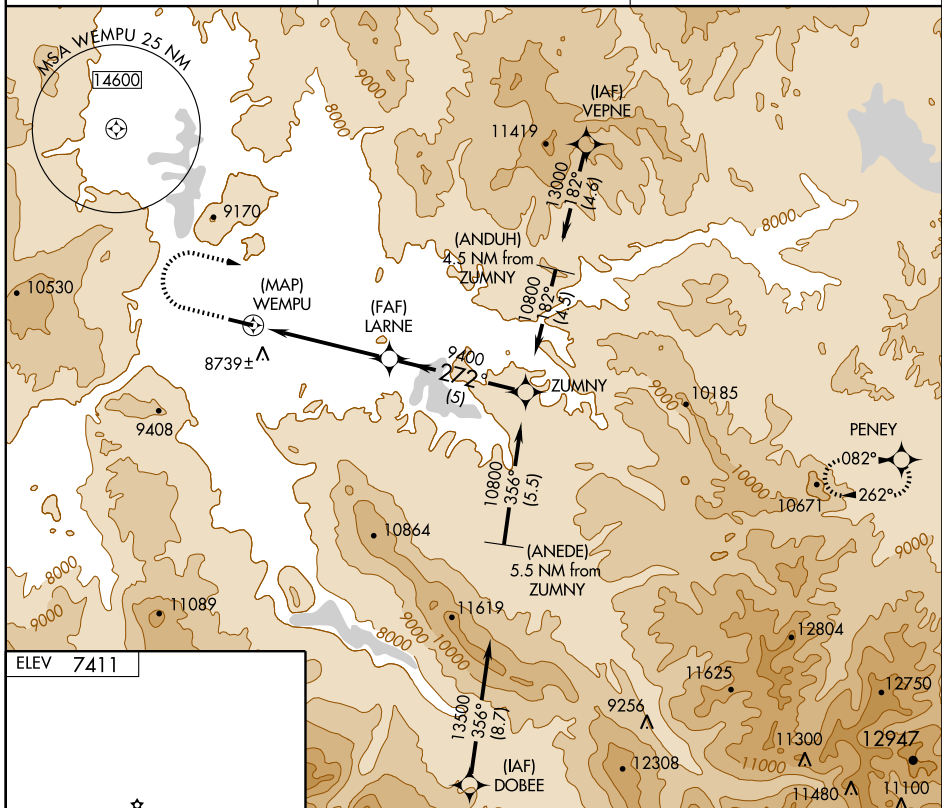
Obtain local altimeter setting on UNICOM 122.8;
when not available, procedure not authorized.



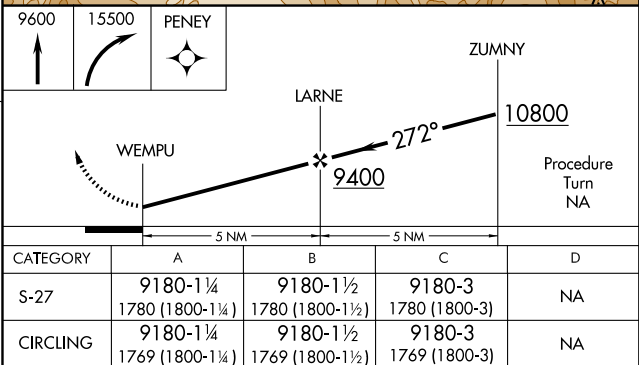
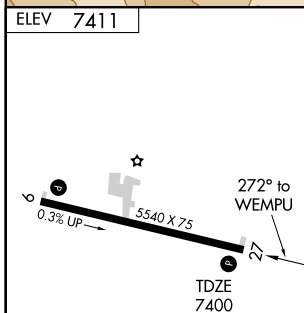
ANA

MISSED APPROACH: Climb to 9600 then climbing right turn to 15500 direct PENEY WP and hold.

AWOS-3
118.425

DENVER CENTER
128.65 282.2UNICOM
122.8 (CTAF) **L**

SW-1 14 JAN 2010 to 11 FEB 2010

REIL Rwy 9 and 27 **L**MIRL Rwy 9-27 **L**

VOR/DME RLG 113.8 Chan 85	APP CRS 034°	Rwy Idg N/A TDZE N/A Apt Elev 7411
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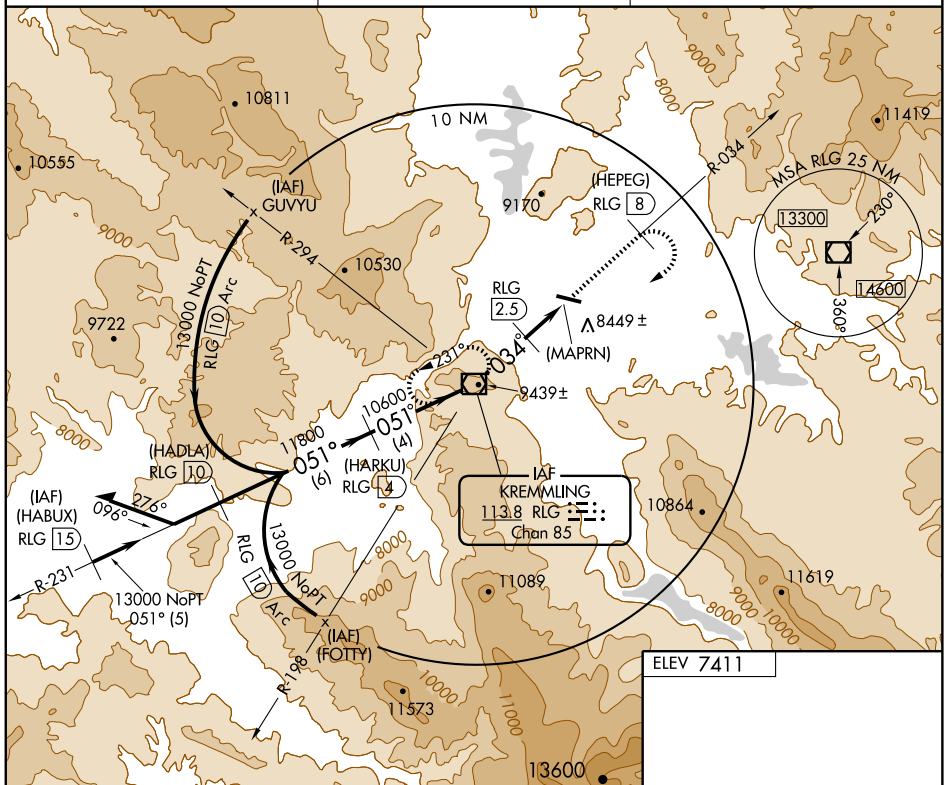
VOR/DME or GPS-A

KREMMLING/MC ELROY AIRFIELD (20V)

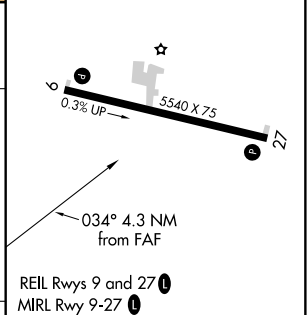
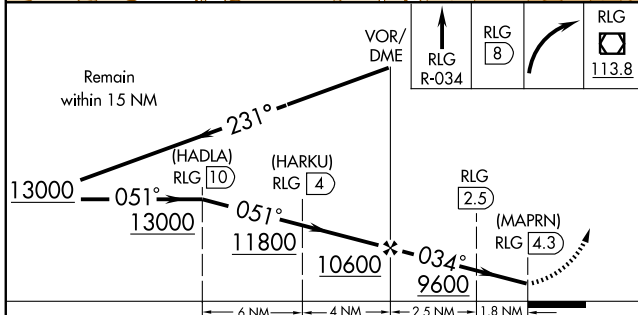
T	Obtain local altimeter setting on CTAF; when not
A NA	received procedure not authorized.

MISSED APPROACH: Climb to 8 DME via RLG R-034, then climbing right turn direct RLG VOR/DME. Continue climb to 13000 in holding pattern.

AWOS-3
118.425

DENVER CENTER
128.65 282.2UNICOM
122.8 (CTAF) **L**

SW-1: 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D						
CIRCLING	9040-1¼ 1629 (1700-1¼)	9180-1½ 1769 (1800-1½)	9180-3 1769 (1800-3)	NA	Knots	60	90	120	150	180
					Min:Sec					

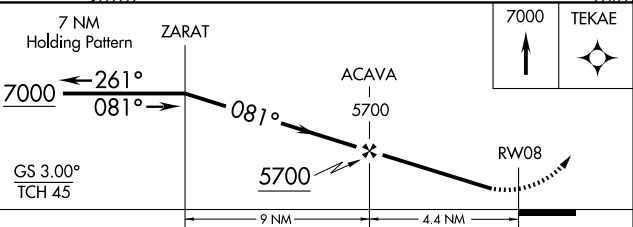
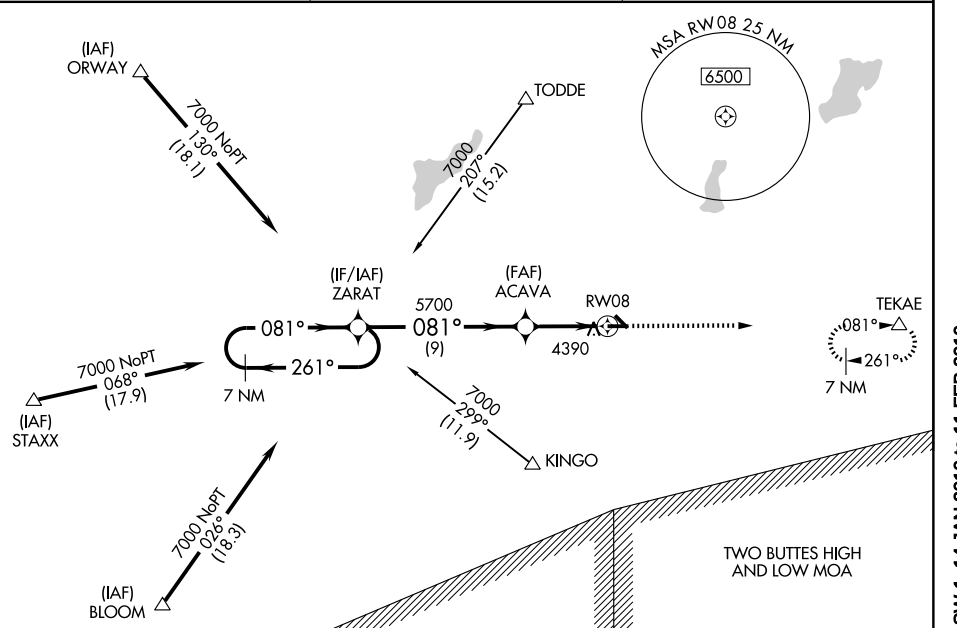
▼

▲

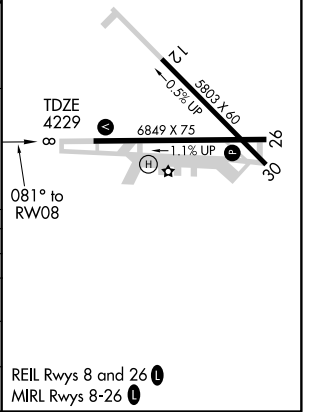
Baro-VNAV NA when using Lamar altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Lamar altimeter setting and increase all DA/MDA 180 feet and increase all visibilities ¾ mile.

MISSED APPROACH:
Climb to 7000 direct TEKAE and hold.

ASOS 135.525	DENVER CENTER 128.375 379.95	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	4528-1		299 (300-1)	
LNAV/VNAV DA	4738-1¾		509 (600-1¾)	
LNAV MDA	4700-1 471 (500-1)		4700-1½ 471 (500-1½)	4700-1½ 471 (500-1½)
CIRCLING	4740-1 511 (600-1)		4740-1½ 511 (600-1½)	4780-2 551 (600-2)



SW-1, 14 JAN 2010 to 11 FEB 2010

WAAS CH 93813 W26A	APP CRS 261°	Rwy Idg 6849 TDZE 4188 Apt Elev 4229
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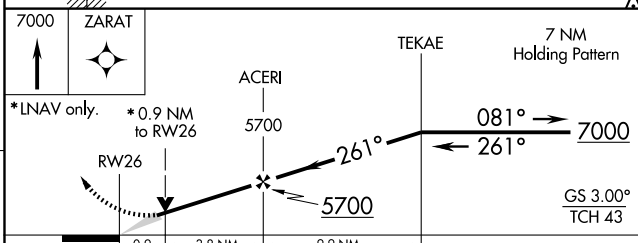
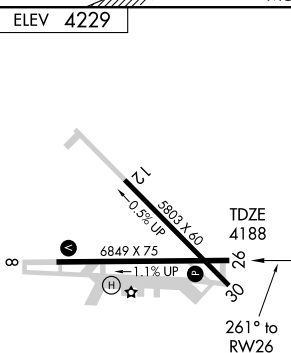
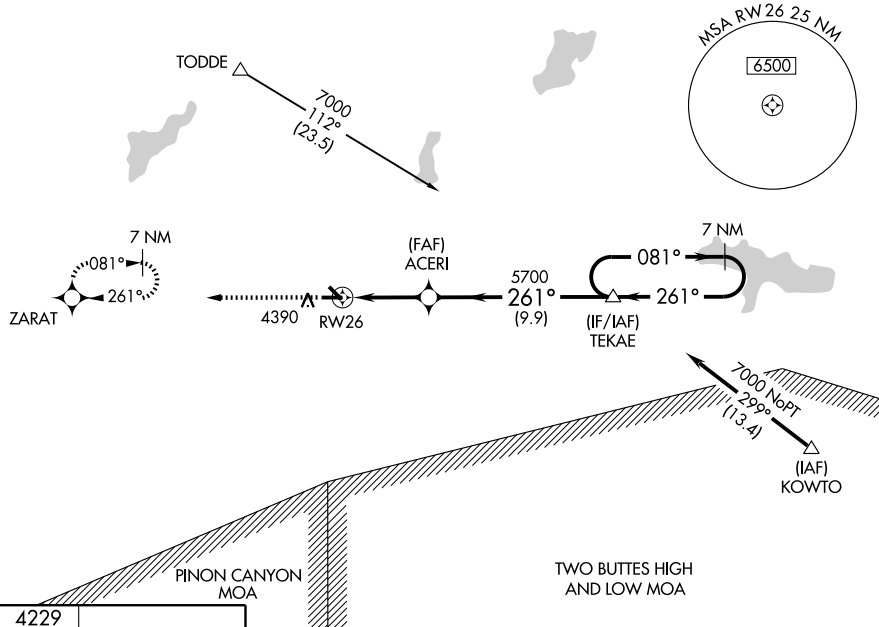
RNAV (GPS) RWY 26
LA JUNTA MUNI (LHX)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Lamar altimeter setting. When local altimeter setting not received, use Lamar altimeter setting and increase all DA/MDA 180 feet and increase all visibility $\frac{3}{4}$ mile.

MISSED APPROACH: Climb to 7000 direct ZARAT and hold.

ASOS
135,525

DENVER CENTER
128.375 379.95

UNICOM
123.0 (CTAF) **L**

		0.9		3.8 NM		7.9 NM			
CATEGORY		A		B		C		D	
LPV	DA			4438-1		250 (300-1)			
INAV/ VNAV	DA			4438-1		250 (300-1)			
INAV	MDA			4480-1		292 (300-1)			
CIRCLING		4740-1		511 (600-1)		4740-1½ 511 (600-1½)		4780-2 551 (600-2)	

REIL Rwy 8 and 26 **L**

MIRL Rwy 8-26 L

APP CRS	Rwy Idg	5001
079°	TDZE	3685
	Apt Elev	3706

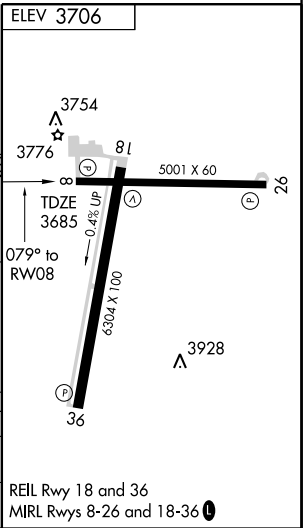
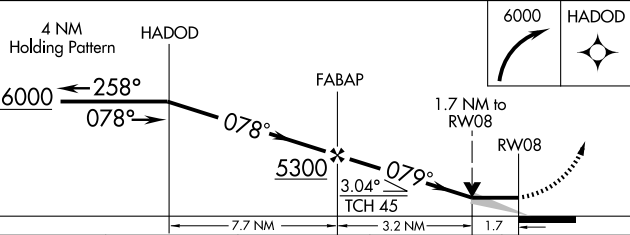
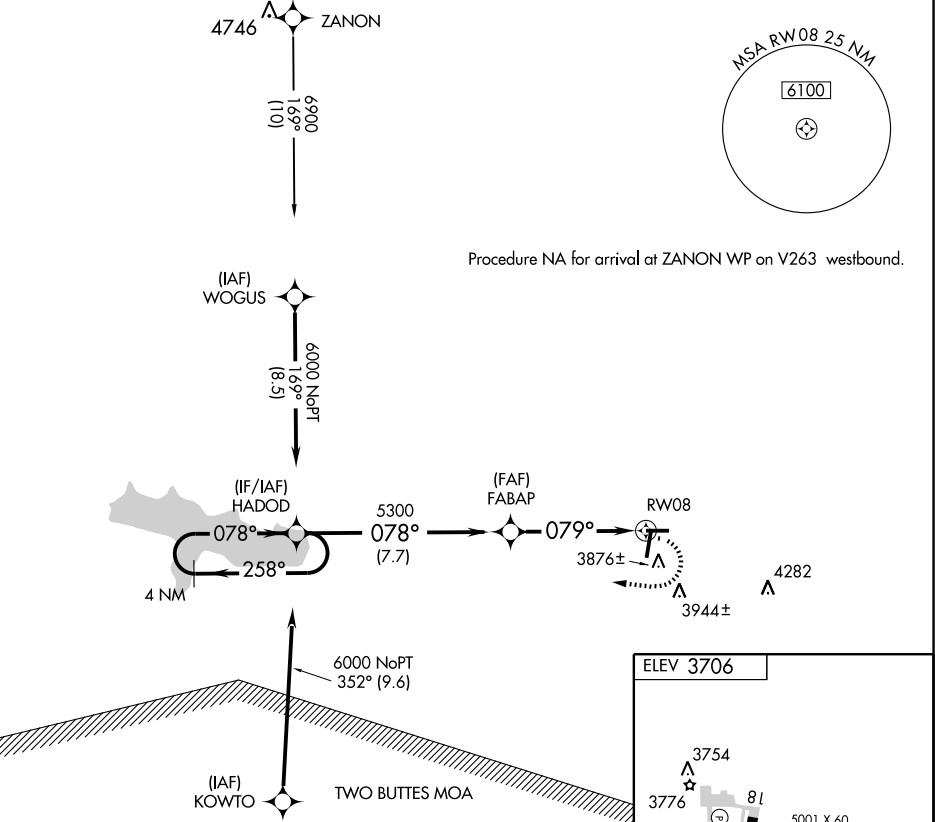
RNAV (GPS) RWY 8

LAMAR MUNI (LAA)

Circling NA at night to Rwy 8, 26 and 36.
 NA Straight-in NA at night to Rwy 8.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 6000 direct HADOD WP and hold.

ASOS 135.625	DENVER CENTER 133.4 377.175	UNICOM 122.8 (CTAF)
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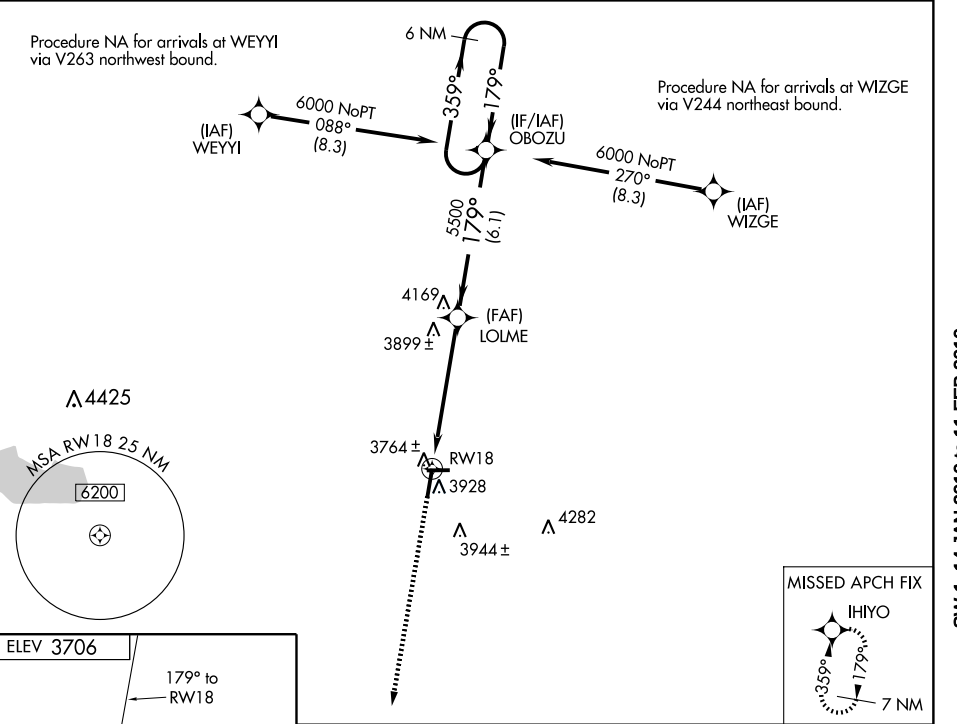
CATEGORY	A	B	C	D
LNAV MDA	4280-1 595 (600-1)	4280-1½ 595 (600-1½)	4280-1¾ 595 (600-1¾)	4280-2 595 (600-2)
CIRCLING	4420-1 714 (800-1)	4420-2 714 (800-2)	4420-2¼ 714 (800-2¼)	4420-3 714 (800-3)

REIL Rwy 18 and 36
MIRL Rwy 8-26 and 18-36

⚠ Circling to Rwy 8, 26 and 36 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using La Junta altimeter setting. When local altimeter setting not received, use La Junta altimeter setting and increase all DA 163 feet and all MDA 180 feet, increase LPV, LNAV/VNAV visibility all Cats ½ mile; increase LNAV visibility Cat C/D ½ mile, increase Circling visibility Cat B ¼ mile, Cat C ¾ mile Cat D ½ mile.

MISSED APPROACH: Climb to 6200 direct IHIYO and hold.

ASOS 135.625	DENVER CENTER 133.4 377.175	UNICOM 122.8 (CTAF) 0
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6200 IHIYO		OBOZU		6 NM Holding Pattern	
RW18		LOIME		359° → 6000 ← 179°	
5.5 NM		6.1 NM		GS 3.00° TCH 41	
CATEGORY	A	B	C	D	
LPV DA	3945-1		250 (300-1)		
LNAV/VNAV DA	4014-1¼		319 (400-1¼)		
LNAV MDA	4160-1	465 (500-1)	4160-1¼ 465 (500-1¼)	4160-1½ 465 (500-1½)	
CIRCLING	4280-1	574 (600-1)	4280-1½ 574 (600-1½)	4280-2 574 (600-2)	

REIL Rwy 18 and 36
MRL Rws 8-26 and 18-36 0

SW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS 259°	Rwy Idg TDZE Apt Elev	5001 3689 3706
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RNAV (GPS) RWY 26
LAMAR MUNI (LAA)

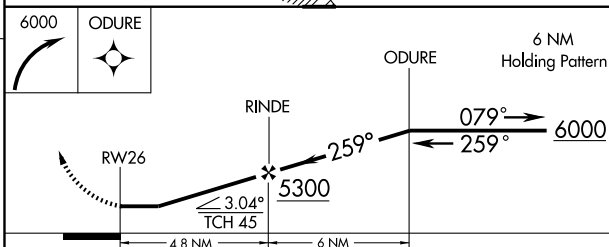
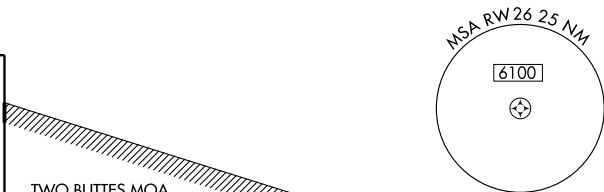
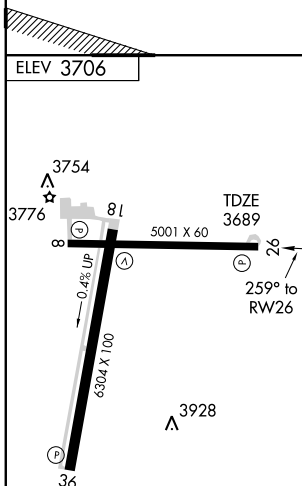
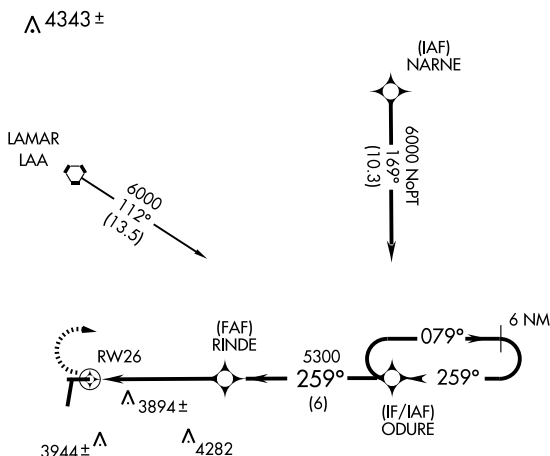
T	Circling NA at night to Rwy 26, 8, and 36.
A	Straight in NA at night to Rwy 26.
A NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 6000 direct ODURE WP and hold.

ASOS
135.625

DENVER CENTER
133.4 377.175

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
LNAV MDA	4180-1 491 (500-1)		4180-1¼ 491 (500-1¼)	4180-1½ 491 (500-1½)
CIRCLING	4420-1 714 (800-1)		4420-2 714 (800-2)	4420-2¼ 714 (800-2¼)

REIL Rwy 18 and 36
MIRL Rwy 8-26 and 18-36 **L**

▼

DME/DME RNP-0.3 NA.

▲

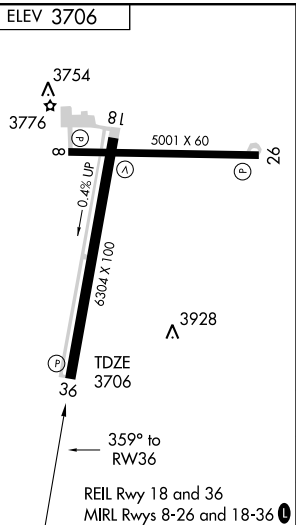
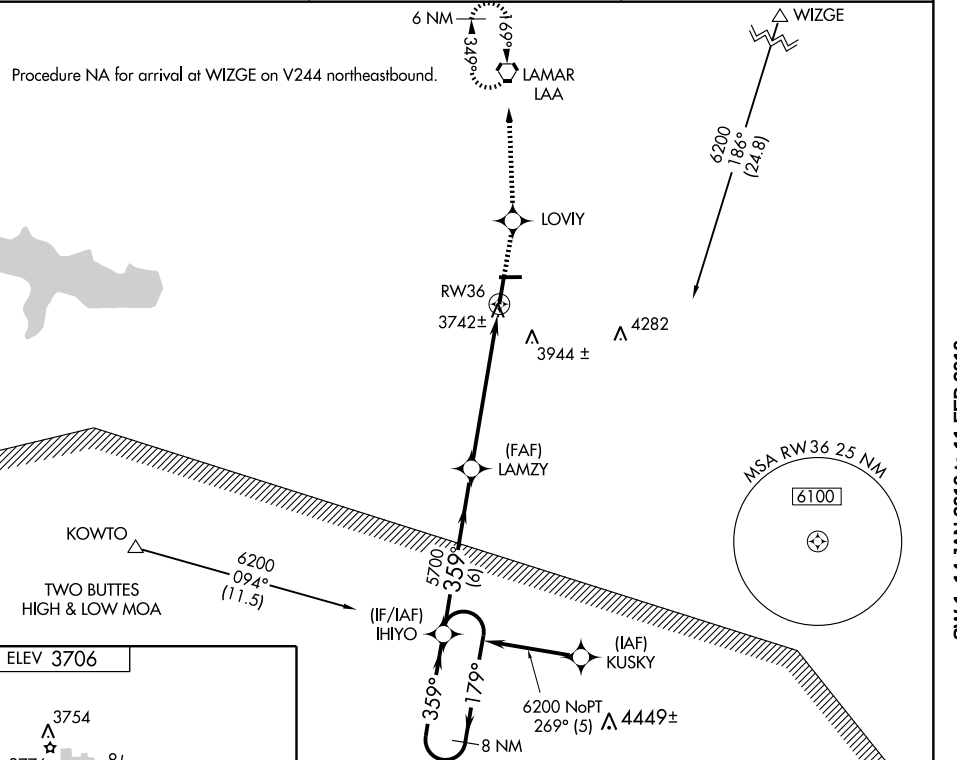
Baro-VNAV NA below -22°C (-7°F).

Straight-in minimums NA at night.

Circling to Rwy 36, 8, and 26 NA at night.

MISSED APPROACH: Climb to 6000 direct LOVIY then left turn via 347° track to LAA VORTAC and hold.

ASOS 135.625	DENVER CENTER 133.4 377.175	UNICOM 122.8 (CTAF) 1
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8 NM Holding Pattern IHIYO				
6200 179° 359° 359° 5700 6000 LOVIY LAA 347° VGSI and RNAV glidepath not coincident. RW36				
GS 3.00° TCH 50				
6 NM 6 NM				
CATEGORY	A	B	C	D
LPV DA	3956-1 250 (300-1)			
LNAV/VNAV DA	4250-2 544 (600-2)			
LNAV MDA	4380-1 674 (700-1)		4380-2 674 (700-2)	4380-2 1/4 674 (700-2 1/4)
CIRCLING	4420-2 714 (800-2)			4420-2 1/4 714 (800-2 1/4)

SW-1, 14 JAN 2010 to 11 FEB 2010

VORTAC LAA	APP CRS	Rwy Idg	6304
116.9	350°	TDZE	3704
Chan 116		Apt Elev	3704

VOR/DME RWY 36
LAMAR MUNI (LAA)

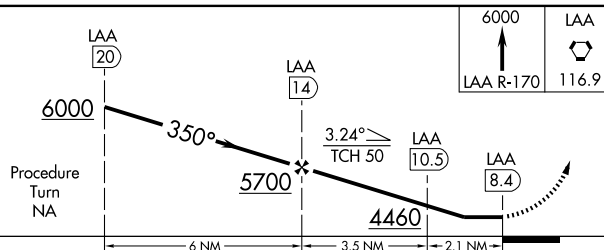
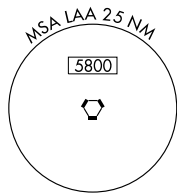
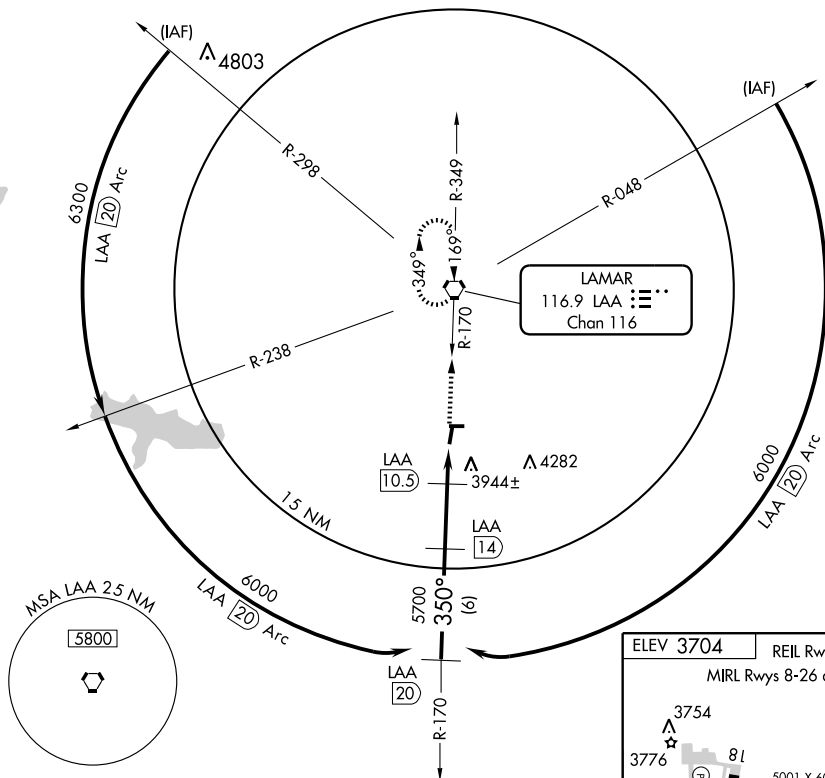
LAMAR MUNI (LAA)

MISSED APPROACH: Climb to 6000 via LAA R-170 to LAA VORTAC and hold.

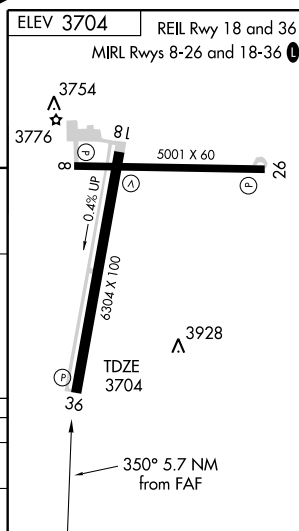
ASOS
135.625

DENVER CENTER
133.4 377.175

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
S-36	4200-1	496 (500-1)	4200-1¼ 496 (500-1¼)	4200-1½ 496 (500-1½)
CIRCLING	4200-1 496 (500-1)	4220-1 516 (600-1)	4240-1½ 536 (600-1½)	4260-2 556 (600-2)



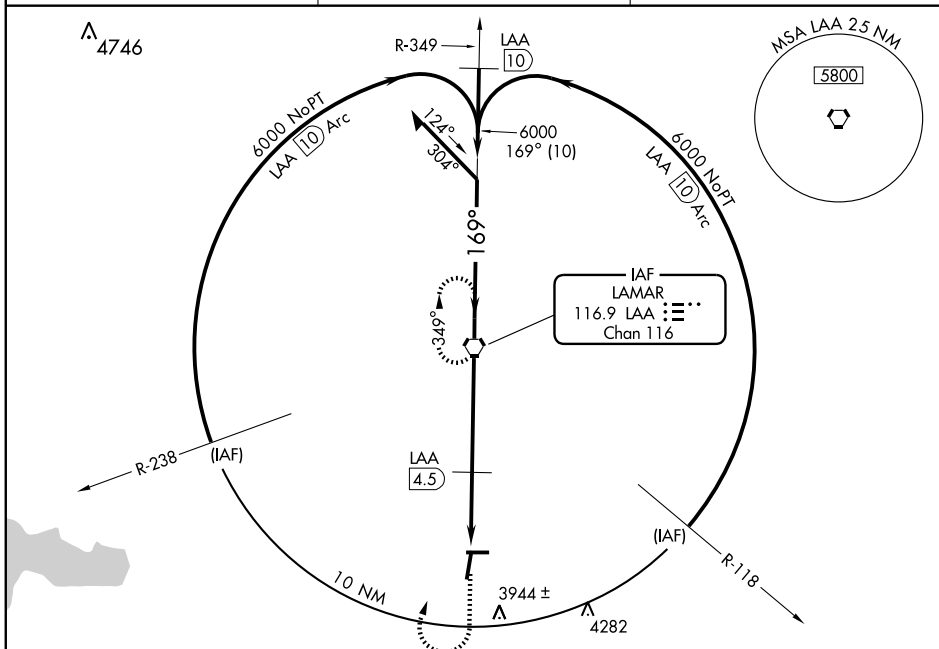
VORTAC LAA 116.9 Chan 116	APP CRS 169°	Rwy Idg 6304 TDZE 3693 Apt Elev 3704
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VOR RWY 18
LAMAR MUNI (LAA)

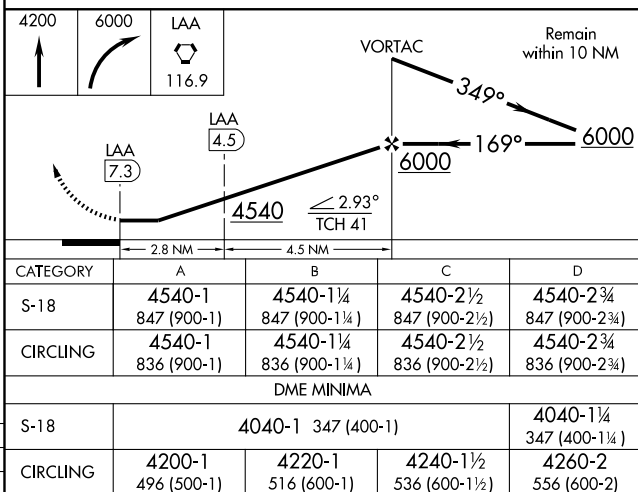


MISSED APPROACH: Climb to 4200, then climbing right turn to 6000 direct IAA VORTAC and hold

ASOS 135.625	DENVER CENTER 133.4 377.175	UNICOM 122.8 (CTAF) 0
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FAF to MAP 7.3 NM					
Knots	60	90	120	150	180
Min:Sec	7:18	4:52	3:39	2:55	2:26



DAVVY ONE DEPARTURE (RNAV) (OBSTACLE)

DENVER CENTER
119.85 363.15

DAVVY

343°
(17)

LOWI

(3)

NOTE: GPS required.

NOTE: RNAV 1.

NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 34: Standard with minimum climb of 364' per NM to 13500.

Rwy 16: NA, ATC.

TAKE-OFF OBSTACLE NOTES

Multiple trees beginning 71' from DER, 378' right of centerline, up to 100' AGL/10042' MSL.

Tree 37' from DER, 140' left of centerline, 100' AGL/10019 MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

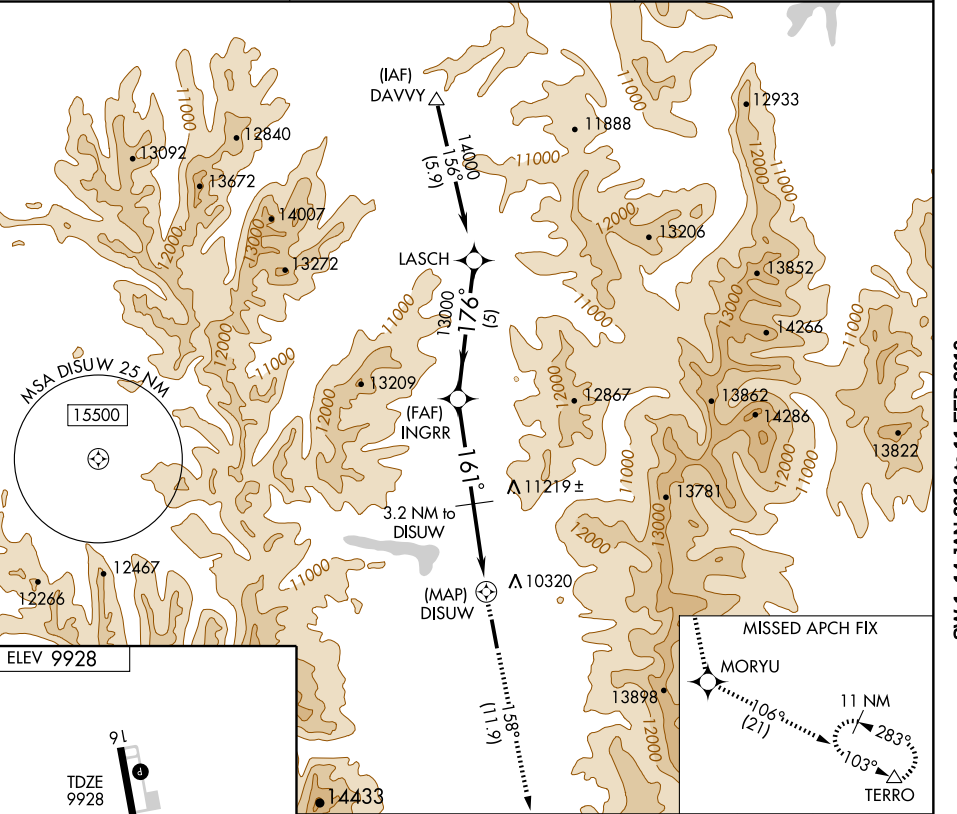
TAKE-OFF RUNWAY 34: Climb to 16000 direct LOWI and via 343° track to DAVVY.
Then via assigned route.

▽

△NA

MISSED APPROACH: Climb to 16000 via 158° course to MORYU WP, then via 106° course to TERRO WP and hold.

ASOS 118.375	DENVER CENTER 119.85 363.15	UNICOM 122.8 (CTAF) 0
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ELEV 9928

91

TDZE 9928

6400 X 75

34

MIRL Rwy 16-34 0

LASCH

VGSI and descent angles not coincident.

INGRR

14000

176°

13000

161°

11540

3.62° TCH 45

5 NM

3.8 NM

3.2 NM

1 NM

16000

158°

MORYU

106° course

TERRO

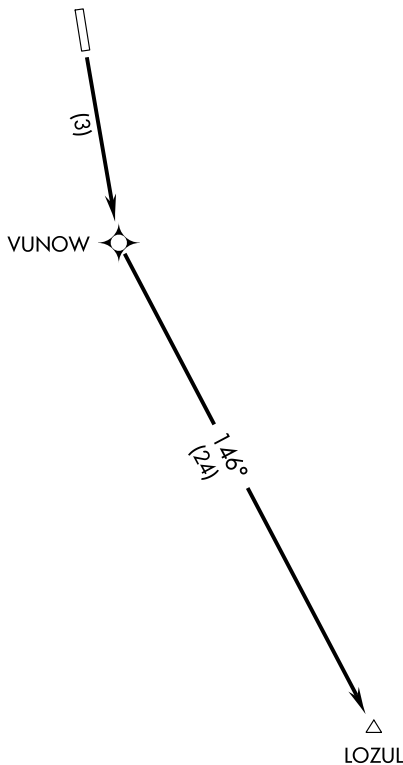
3.2 NM to DISUW

DISUW

CATEGORY	A	B	C	D
S-16	11360-1¼ 1432 (1500-1¼)	11360-1½ 1432 (1500-1½)	NA	
CIRCLING	11360-1¼ 1432 (1500-1¼)	11360-1½ 1432 (1500-1½)	NA	

SW-1, 14 JAN 2010 to 11 FEB 2010

DENVER CENTER
119.85 363.15



NOTE: GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: Standard with minimum climb of 322' per NM to 14300.
Rwy 34: NA, ATC.

TAKE-OFF OBSTACLE NOTE

Multiple trees beginning 47' from DER, 453' left of centerline, up to 100' AGL/10079' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 16200' direct VUNOW and via 146° track to LOZUL.
Then via assigned route.

APP CRS	Rwy Idg	N/A
346°	TDZE	N/A
	Apt Elev	5052

RNAV (GPS)-B

LONGMONT/VANCE BRAND (LMO)



Use Denver Int| al|timeter setting.



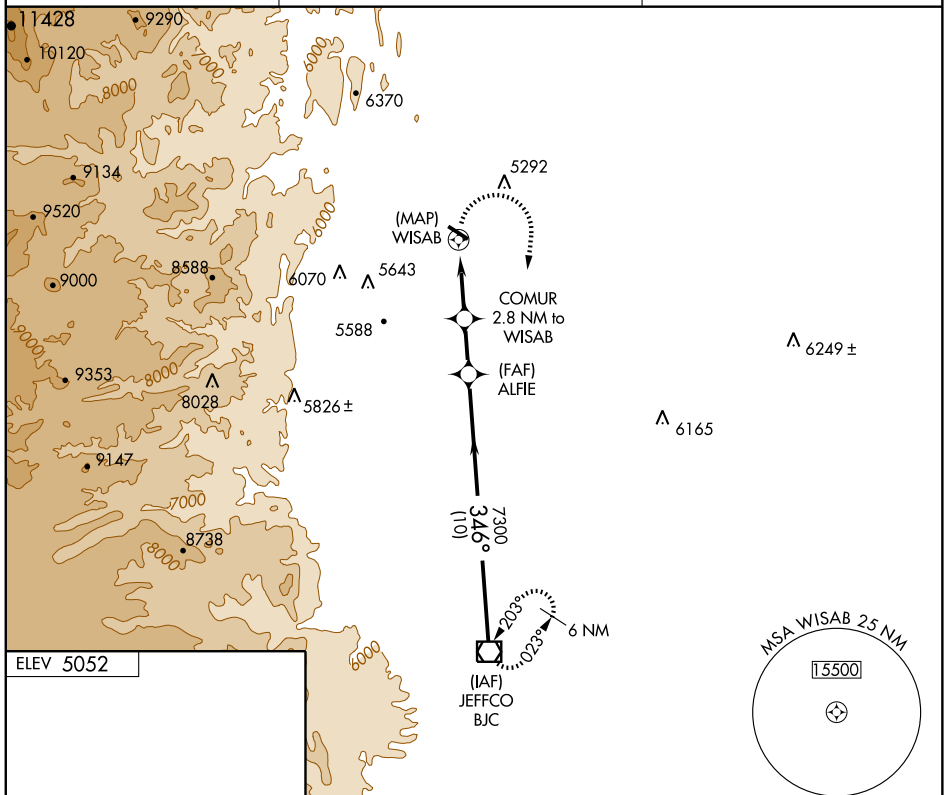
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 8000 direct BJC VOR/DME and hold.

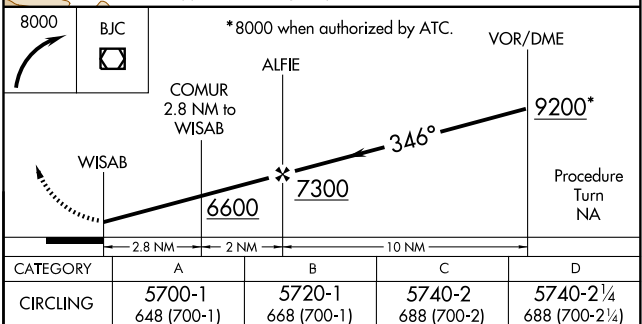
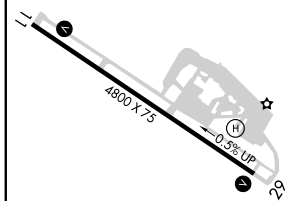
AWOS-3
120.0

DENVER APP CON
126.1 360.75

UNICOM
122.975 (CTAF) **L**



Procedure NA for arrivals at BJC VOR/DME via V81 southbound.
Limit missed approach holding airspeed to 210 KIAS.

MIRL Rwy 11-29 **L**

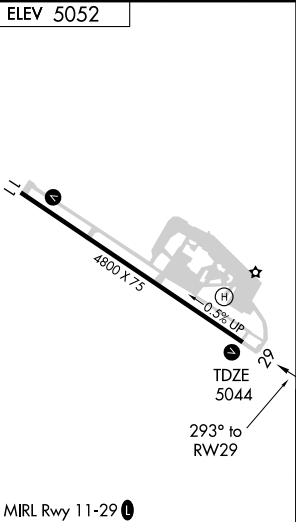
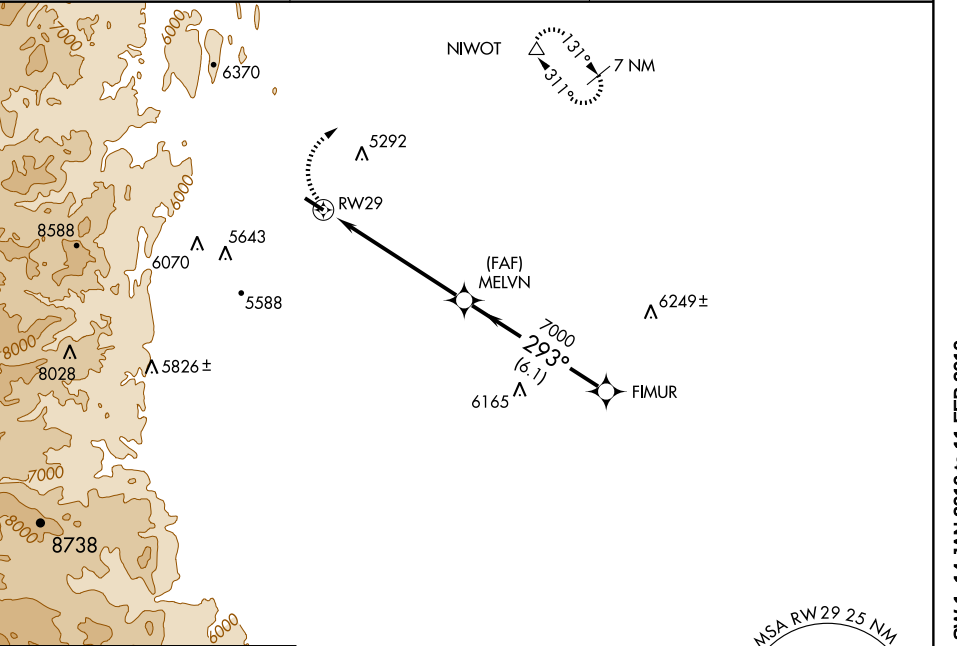
Use Denver Intl altimeter setting.

NA

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 7300 direct
NIWOT WP and hold.

AWOS-3 120.0	DENVER APP CON 126.1 360.75	UNICOM 122.975 (CTAF)
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	7300 	NIWOT 	MELVN	FIMUR
			7000 293°	7000
			6 NM	6.1 NM
CATEGORY	A	B	C	D
LNNAV MDA	5640-1	596 (600-1)	5640-1½ 596 (600-1½)	5640-1¾ 596 (600-1¾)
CIRCLING	5700-1 648 (700-1)	5720-1 668 (700-1)	5740-2 688 (700-2)	5740-2¼ 688 (700-2¼)

SW-1. 14 JAN 2010 to 11 FEB 2010

VOR/DME BJC <u>115.4</u> Chan 101	APP CRS 345°	Rwy Idg N/A TDZE N/A Apt Elev 5052
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VOR/DME-A

LONGMONT/VANCE BRAND (LMO)

T
A NA Use Denver Intl altimeter setting.

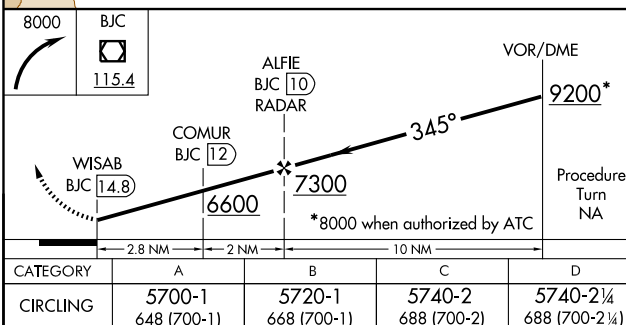
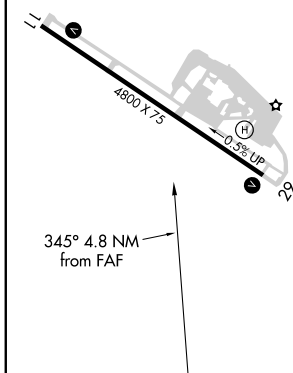
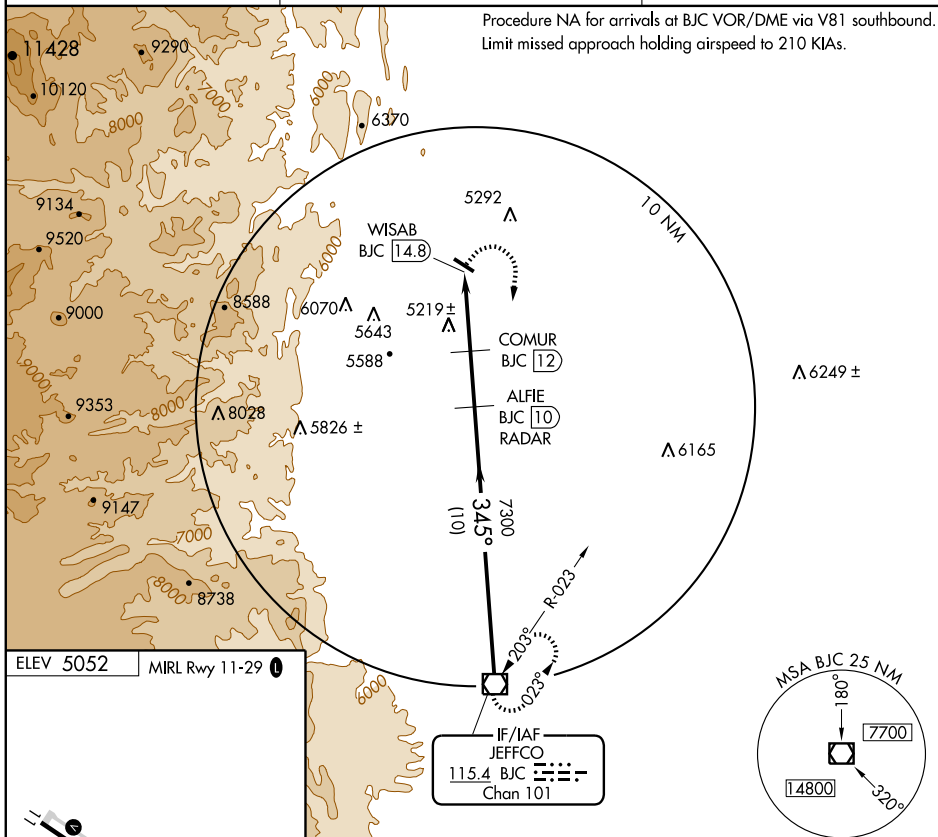
MISSED APPROACH: Climbing right turn to 8000 direct BJC VOR/DME and hold.

AWOS-3
120.0

DENVER APP CON
126.1 360.75

UNICOM
122.975 (CTAF) **L**

Procedure NA for arrivals at BJC VOR/DME via V81 southbound.
Limit missed approach holding airspeed to 210 KIAS.



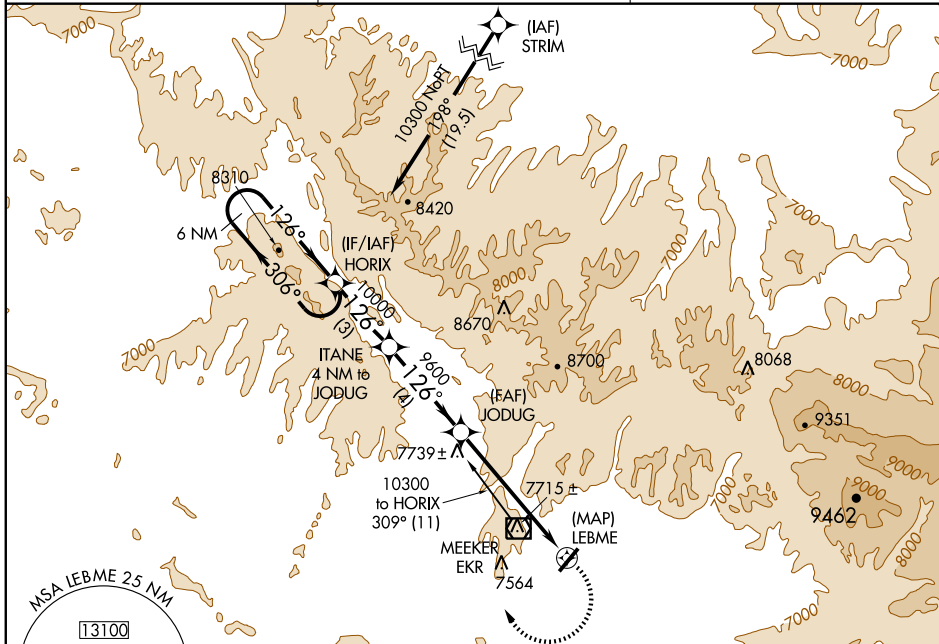
APP CRS 126°	Rwy Idg TDZE Apt Elev	N/A N/A 6421
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RNAV (GPS)-B MEEKER (EEO)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
 Circling not authorized west of Rwy 3-21.

MISSED APPROACH: Climbing right turn to 10300 direct
 HORIX WP and hold.

ASOS 135.525	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 0
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6 NM Holding Pattern	HORIX	ITANE 4 NM to JODUG	JODUG	LEBME	10300 HORIX
10300	10000	9600	7564	7564	7564
306°	126°	126°	126°	126°	126°
3 NM	4 NM	5.9 NM			
CATEGORY	A	B	C	D	
CIRCLING	7960-1¼ 1539 (1600-1¼)	7960-1½ 1539 (1600-1½)	7960-3 1539 (1600-3)	NA	

REIL Rwy 3 0
 MRL Rwy 3-21 0

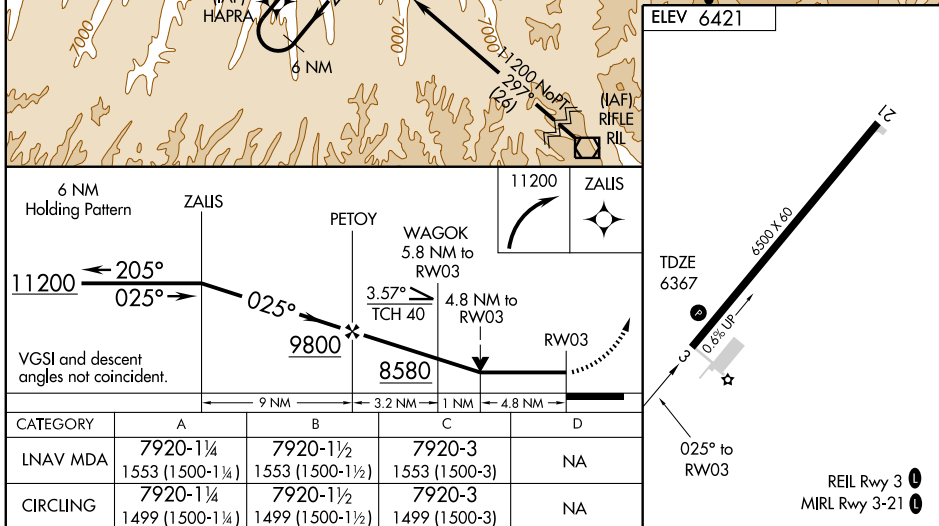
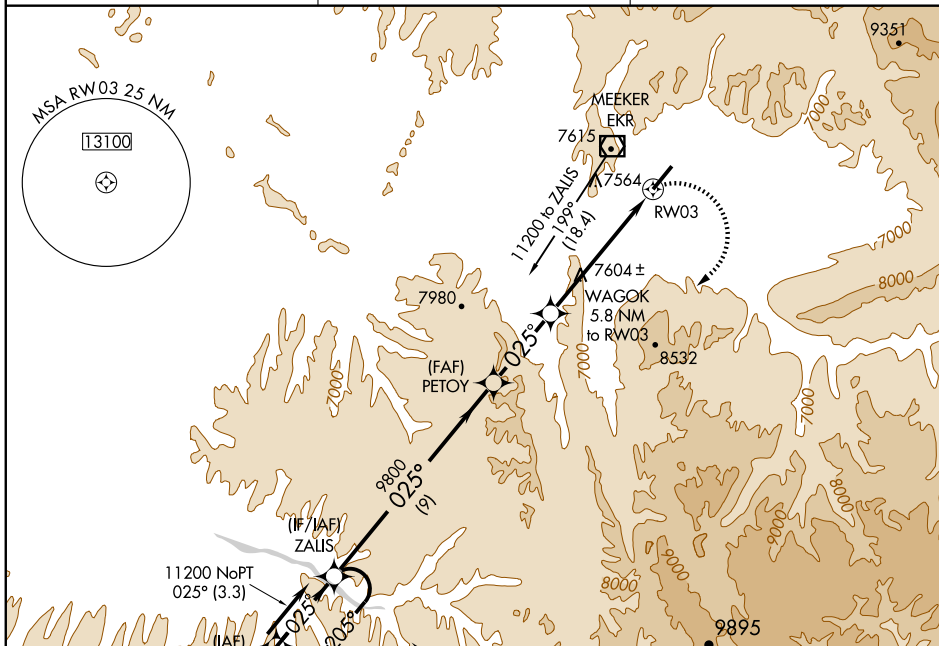
APP CRS	Rwy Idg	6500
025°	TDZE	6367
	Apt Elev	6421

RNAV (GPS) RWY 3 MEEKER (EEO)

 Circling NA west of Rwy 3-21.
 DME/DME RNP-0.3 NA.
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 11200 direct
 ZALIS and hold.

ASOS 135.525	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 0
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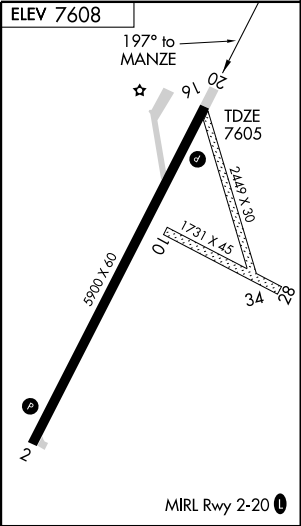
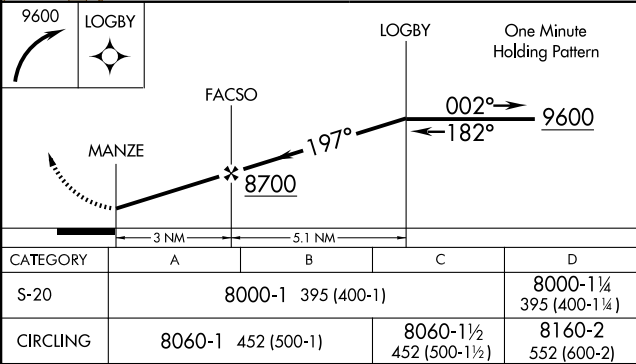
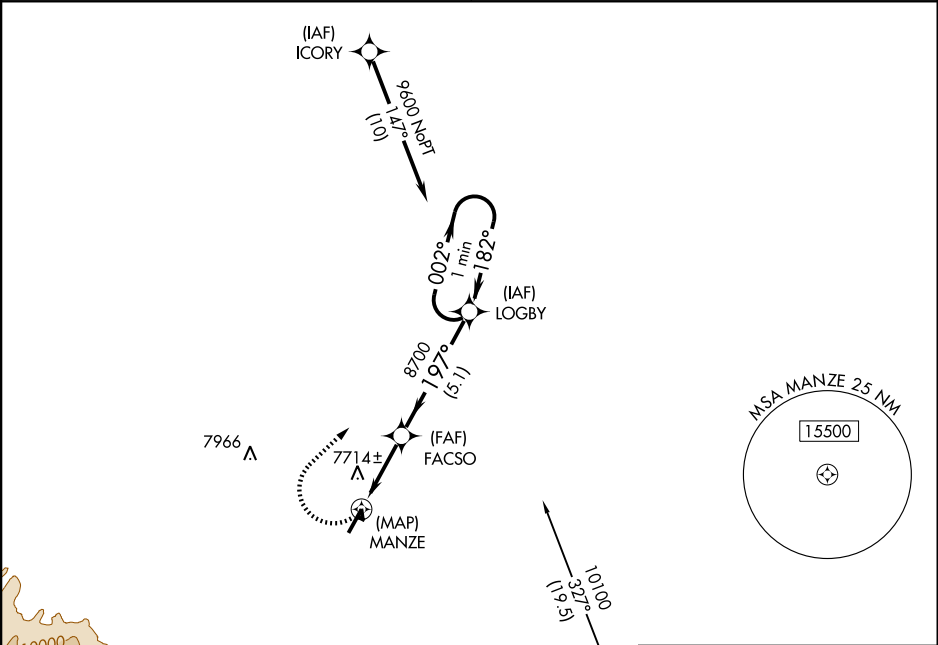


APP CRS 197°	Rwy Idg TDZE Apt Elev	5900 7605 7608
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GPS RWY 20

MONTE VISTA MUNI (MVI)

NA Use Alamosa altimeter setting.	MISSED APPROACH: Climbing right turn to 9600 direct LOGBY WP and hold.
DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF)



VORTAC ALS 113.9 Chan 86	APP CRS 301°	Rwy Idg TDZE Apt Elev	N/A N/A 7611
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VOR/DME-A
MONTE VISTA MUNI (MVI)

T Circling to Rwy 10-28 and Rwy 16-34 NA.
A NA Use Alamosa altimeter setting.

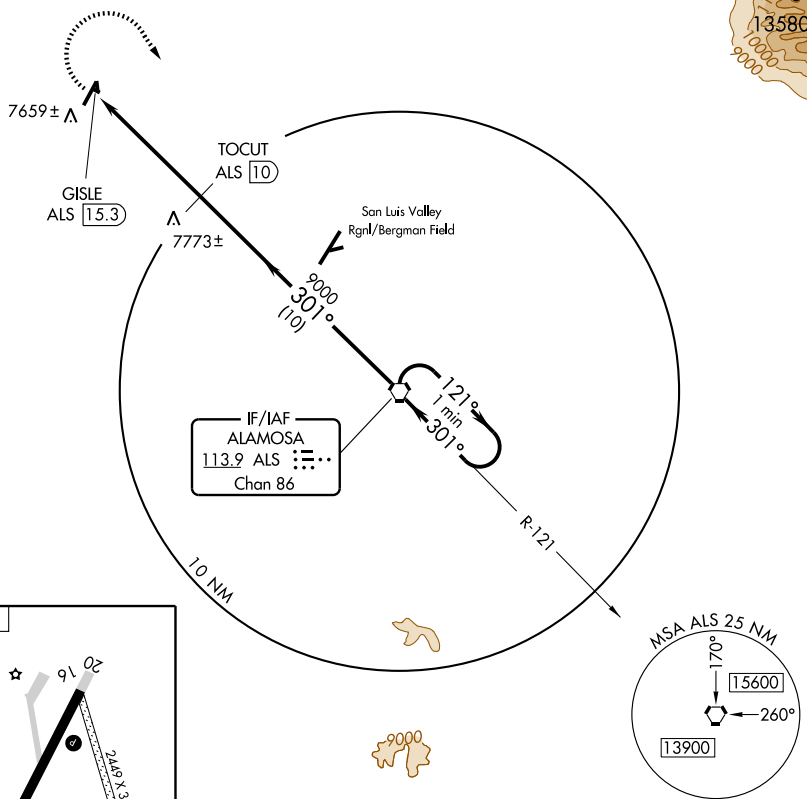
MISSED APPROACH: Climbing right turn to 10700
direct ALS VORTAC and hold.

ALAMOSA ASOS
135.175

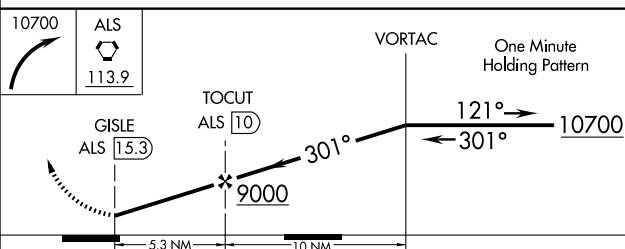
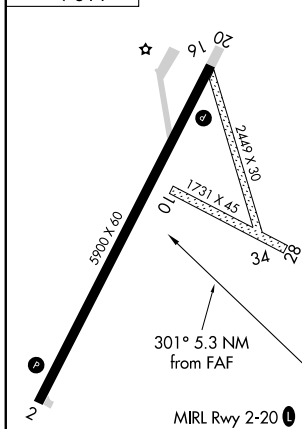
DENVER CENTER
128.375 379.95

UNICOM
122.8 (CTAF) **L**

NoPT for arrival on ALS VORTAC airway radials 061 CW 240.

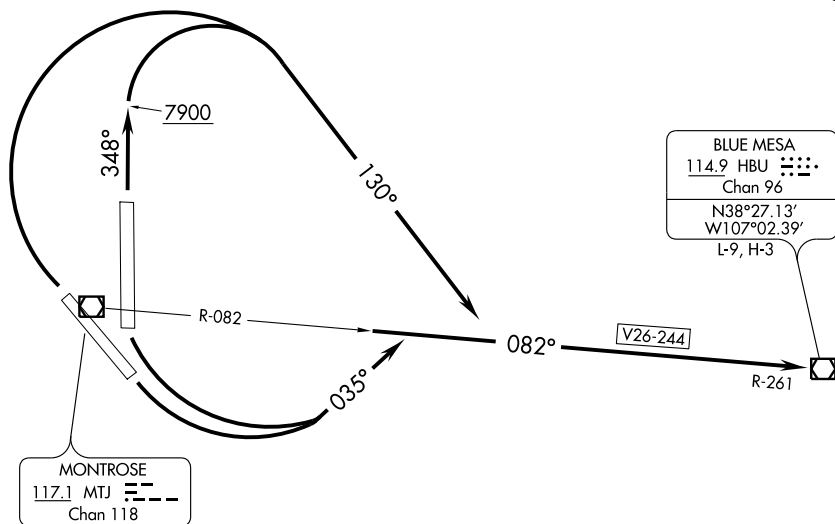


ELEV 7611

[illegible]

BLUE MESA ONE DEPARTURE

DENVER RADIO
122.65
DENVER CENTER
125.35 354.05
UNICOM
122.8

TAKE-OFF MINIMUMS

Rwy 13: Standard with minimum climb of 450' per NM to 11300.

Rwy 17: Standard with minimum climb of 420' per NM to 11300.

Rwy 31: Standard with minimum climb of 450' per NM to 11300.

Rwy 35: Standard with minimum climb of 460' per NM to 11300.

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees beginning 776' from DER, 273' left of centerline, up to 50' AGL/5878' MSL.
Multiple trees and towers beginning 2590' from DER, 38' right of centerline, up to 110' AGL/5910' MSL.

Rwy 31: Multiple trees beginning 315' from DER, 378' left of centerline, up to 50' AGL/5749' MSL.

Rwy 35: Multiple trees beginning 218' from DER, 511' left of centerline, up to 50' AGL/5709' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

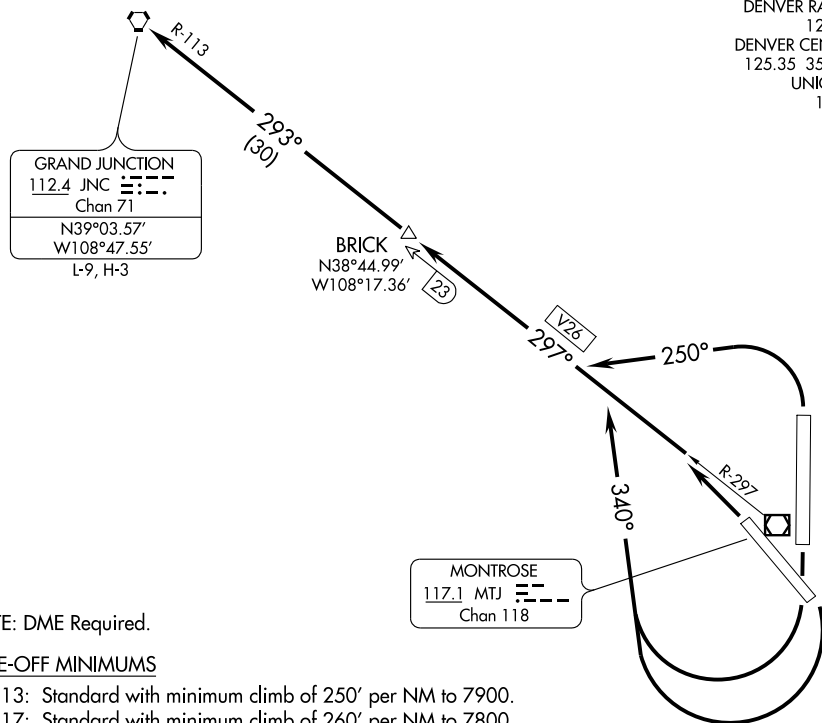
TAKE-OFF RUNWAYS 13, 17: Climbing left turn to 12500 via heading 035° and MTJ R-082 to HBU VOR/DME, then via assigned route.

TAKE-OFF RUNWAY 31: Climbing right turn to 12500 via heading 130° and MTJ R-082 to HBU VOR/DME, then via assigned route.

TAKE-OFF RUNWAY 35: Climb heading 130° then climbing right turn to 12500 via heading 130° and MTJ R-082 to HBU VOR/DME, then via assigned route.

BRICK ONE DEPARTURE

MONTROSE, COLORADO



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13, 17: Climbing right turn to 11000 via heading 340° and MTJ R-297 to BRICK/MTJ 23 DME, Thence. . . .

TAKE-OFF RUNWAY 31: Climbing left turn to 11000 via MTJ R-297 to BRICK/MTJ 23 DME, Thence

TAKE-OFF RUNWAY 35: Climbing left turn to 11000 via heading 250° and MTJ R-297 to BRICK/MTJ 23 DME, Thence

. . . . Via V26 to JNC VORTAC.

LOC I-MTJ 111.3	APP CRS 168°	Rwy Idg TDZE Apt Elev	10000 5704 5759
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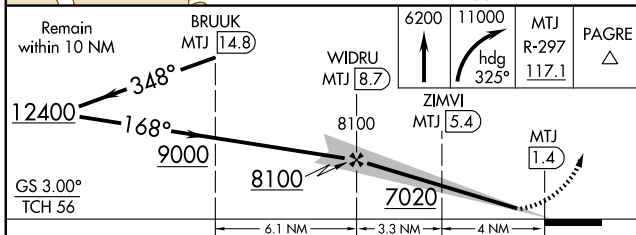
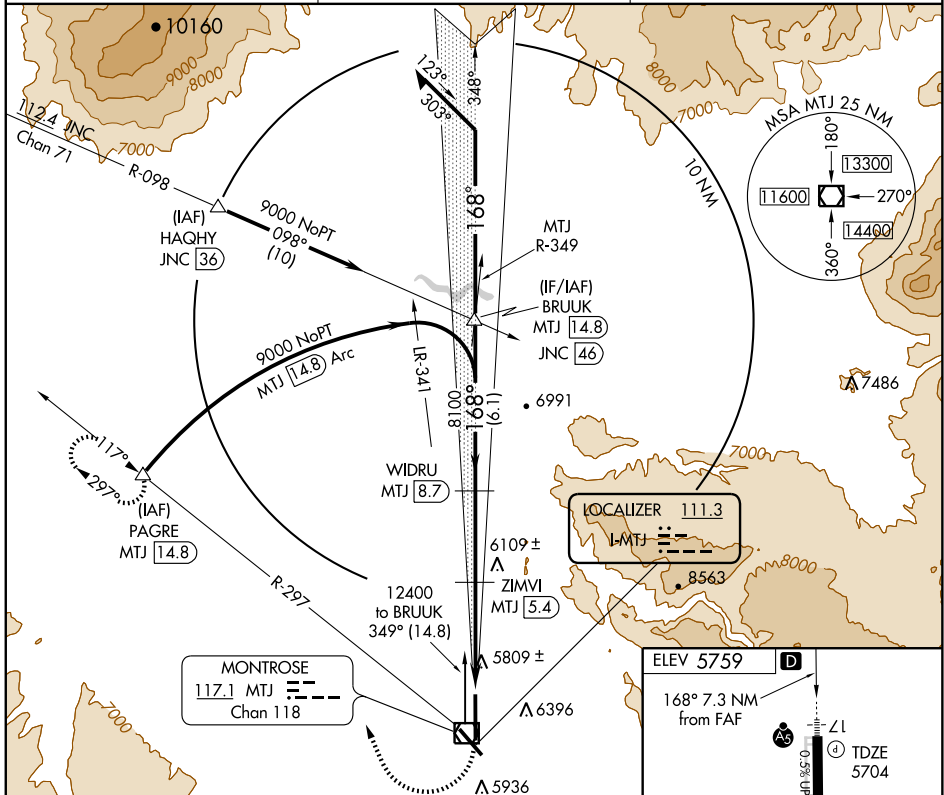
ILS or LOC/DME RWY 17 MONTROSE RGNL (MTJ)

▼ DME required.
▲ DME from MTJ VOR/DME. Simultaneous reception of I-MTJ and MTJ DME required.

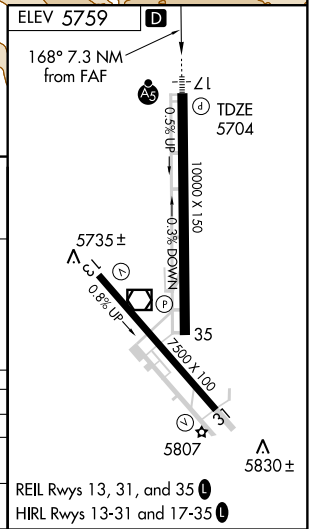
MAISR
AS

MISSED APPROACH: Climb to 6200 then climbing right turn to 11000 via heading 325° and MTJ VOR/DME R-297 to PAGRE/ MTJ 14.8 DME and hold, continue climb-in-hold to 11000.

ASOS 135,225	DENVER CENTER 125.35 354.05	UNICOM 122.8 (CTAF) 0
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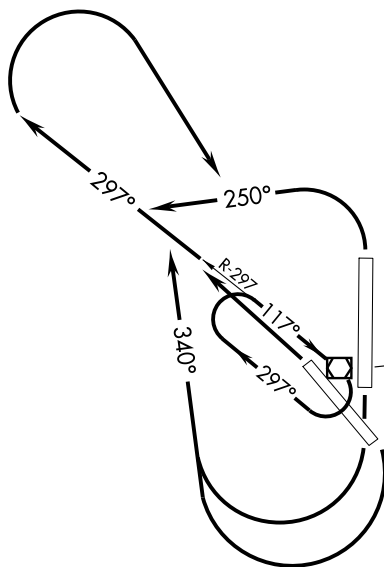
CATEGORY	A	B	C	D
S-ILS 17	5904-½ 200 (200-½)			
S-LOC 17	6060-½ 356 (400-½)			6060-¾ 356 (400-¾)
CIRCLING	6240-1 481 (500-1)	6300-1 541 (600-1)	6660-2¾ 901 (1000-2¾)	6700-3 941 (1000-3)



REIL Rwy 13, 31, and 35
HIRL Rwy 13-31 and 17-35

MONTROSE ONE DEPARTURE (OBSTACLE)

MONTROSE, COLORADO



DENVER RADIO
122.65
DENVER CENTER
125.35 354.05
UNICOM
122.8

MONTROSE
117.1 MTJ
Chan 118
N38°30.39'
W107°53.96'

TAKE-OFF MINIMUMS

Rwy 13: Standard with minimum climb of 250' per NM to 8100, or 5000-3 for climb in visual conditions.
Rwy 17: Standard with minimum climb of 260' per NM to 8100, or 5000-3 for climb in visual conditions.
Rwys 31, 35: Standard.

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees beginning 776' from DER, 273' left of centerline, up to 50' AGL/5878' MSL.
Multiple trees and towers beginning 2590' from DER, 38' right of centerline, up to 110' AGL/5910' MSL.
Rwy 31: Multiple trees beginning 315' from DER, 378' left of centerline, up to 50' AGL/5749' MSL.
Rwy 35: Multiple trees beginning 218' from DER, 511' left of centerline, up to 50' AGL/5709' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13, 17: Climbing right turn to 8100 via heading 340° and MTJ R-297, then climbing right turn to 11000 direct MTJ VOR/DME, Thence. . .
Or, for climb in visual conditions: Cross Montrose Rgnl Airport at or above 10600 before proceeding on course.

TAKE-OFF RUNWAY 31: Climbing left turn to 8100 via MTJ R-297, then climbing right turn to 11000 direct MTJ VOR/DME, Thence. . . .

TAKE-OFF RUNWAY 35: Climbing left turn to 8600 via heading 250° and MTJ R-297, then climbing right turn to 11000 direct MTJ VOR/DME, Thence. . . .

. . . . Continue climb-in-hold in MTJ VOR/DME holding pattern to cross MTJ VOR/DME at or above 11000, then proceed via assigned route.

APP CRS	Rwy Idg	7500
127°	TDZE	5719
	Apt Elev	5759

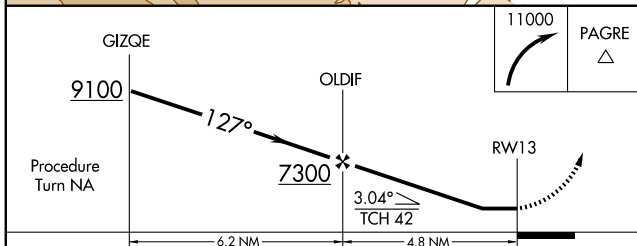
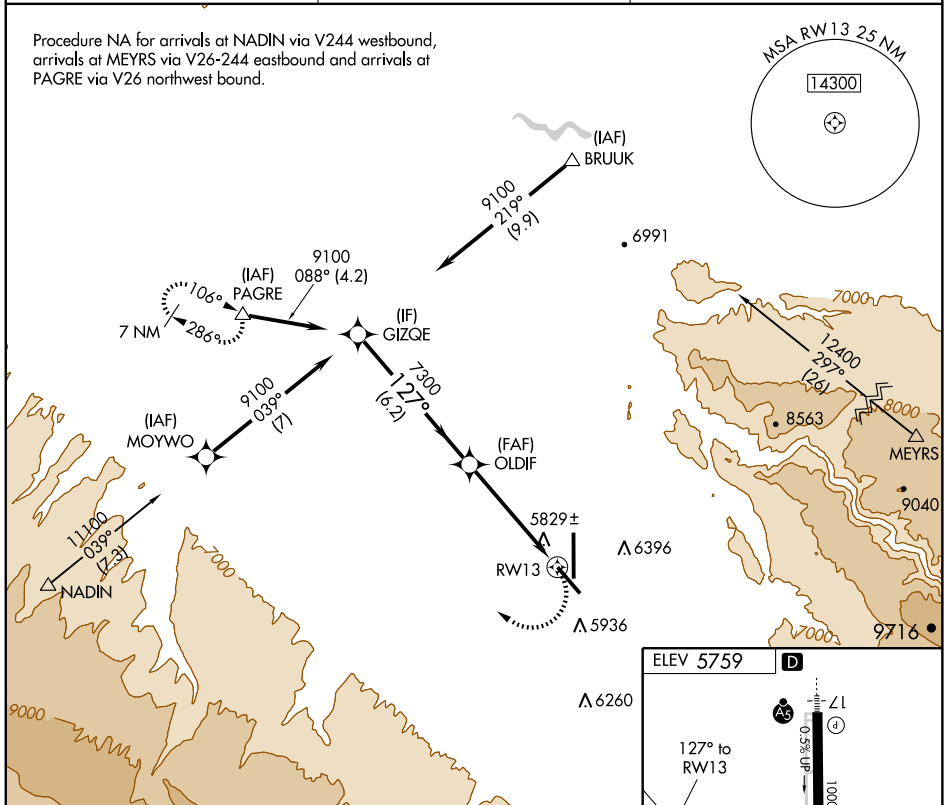
RNAV (GPS) RWY 13

MONTROSE RGNL (MTJ)

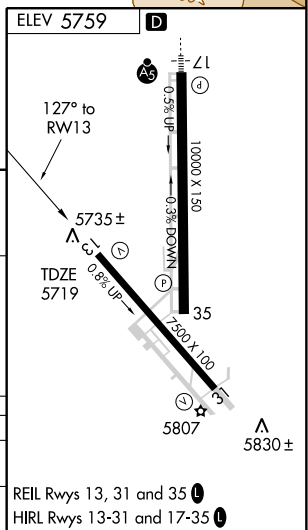
 	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MISSED APPROACH: Climbing right turn to 11000 direct PAGRE and hold, continue climb-in-hold to 11000.
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ASOS 135,225	DENVER CENTER 125.35 354.05	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrivals at NADIN via V244 westbound,
arrivals at MEYRS via V26-244 eastbound and arrivals at
PAGRE via V26 northwest bound.



CATEGORY	A	B	C	D
LNAV MDA	6160-1 441 (500-1)	6160-1½ 441 (500-1½)	6160-1¼ 441 (500-1¼)	6160-1½ 441 (500-1½)
CIRCLING	6240-1 481 (500-1)	6300-1 541 (600-1)	6660-2¾ 901 (1000-2¾)	6700-3 941 (1000-3)



REIL Rwy 13, 31 and 35
HIRL Rwy 13-31 and 17-35

APP CRS
168°

Rwy Idg
10000

TDZE
5704

Apt Elev
5759

RNAV (GPS) Y RWY 17

MONTROSE RGNL (MTJ)

▼

DME/DME RNP-0.3 NA.

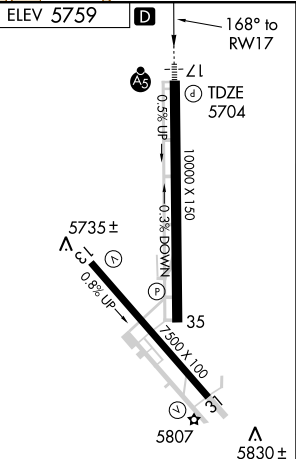
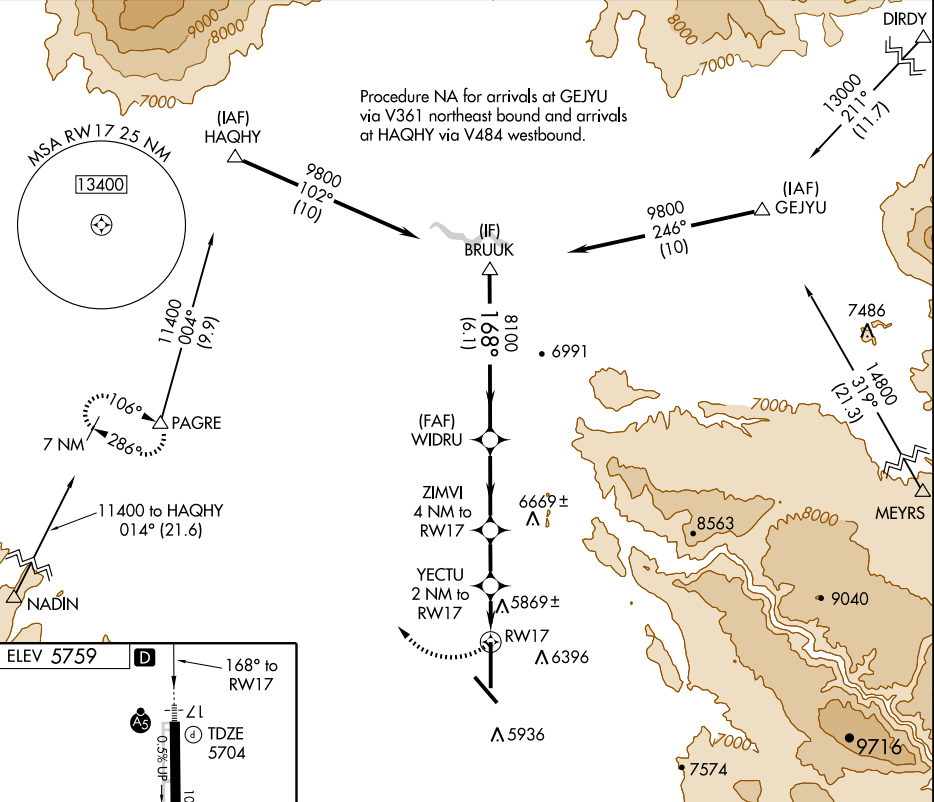
▲

For inoperative MALSR, increase LNAV Cat D visibility to 1¼ mile.

MALSR

MISSED APPROACH: Climbing right turn to 11000 direct PAGRE and hold, continue climb-in-hold to 11000.

ASOS 135.225	DENVER CENTER 125.35 354.05	UNICOM 122.8 (CTAF) 0
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REIL Rwy 13, 31 and 35

HIRL Rwy 13-31 and 17-35

	PAGRE △	YECTU 2 NM to RWY 17	ZIMVI 4 NM to RWY 17	WIDRU	BRUUK	
		1.2 NM to RWY 17		≤ 3.06° TCH 55	9800	Procedure Turn NA
		6380	7020	8100		
	1.2 NM	0.8	2 NM	3.3 NM	6.1 NM	
CATEGORY	A	B	C	D		
LNAV MDA	6120-½ 416 (400-½)	6120-¾ 416 (400-¾)	6120-1 416 (400-1)	6120-1 416 (400-1)		
CIRCLING	6240-1 481 (500-1)	6300-1 541 (600-1)	6660-2¾ 901 (1000-2¾)	6700-3 941 (1000-3)		

WAAS CH 40411 W17A	APP CRS 168°	Rwy Idg 10000 TDZE 5704 Apt Elev 5759
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RNAV (GPS) Z RWY 17
MONTROSE RGNL (MTJ)

MONTROSE RGNL (MTJ)

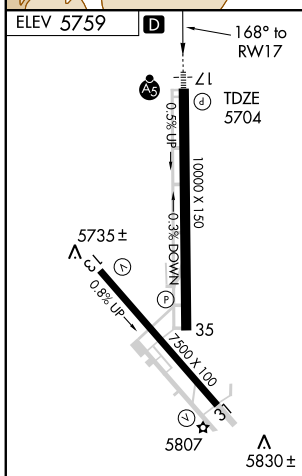
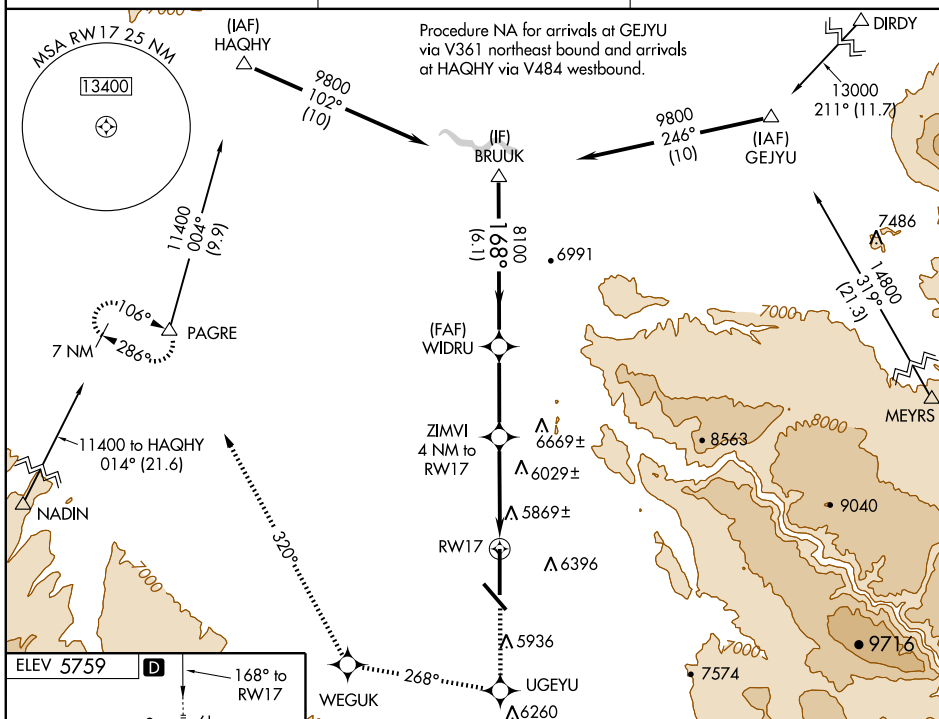
T For uncompensated Baro-VNAV systems, LNAV/VNAV
A NA below -26°C (-14°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 11000 direct UGEYU and right turn via 268° track to WEGUK and via 320° track to PAGRE and hold, continue climb-in-hold to 11000.

ASOS
135.225

DENVER CENTER
125.35 354.05

UNICOM
122.8 (CTAF) **L**

11000 ↑		UGEYU ✧		WEGUK ✧ 268° trk		320° trk PAGRE △		WIDRU		BRUK ✧	
* LNAV only		RW17 1.6 NM		* 1.6 NM to RW17		ZIMVI 4 NM to RW17		168° 8100		9800 Procedure Turn NA GS 3.00° TCH 56	
		1.6 NM		2.4 NM		3.3 NM		6.1 NM			
CATEGORY		A		B		C		D			
LPV	DA			5928-½		224 (200-½)					
LNAV/ VNAV	DA			6388-2		684 (700-2)					
LNAV	MDA	6260-½		556 (600-½)		6260-1 556 (600-1)		6260-1¼ 556 (600-1¼)			
CIRCLING		6260-1 501 (600-1)		6300-1 541 (600-1)		6660-2¾ 901 (1000-2¾)		6700-3 941 (1000-3)			

SW-1: 14 JAN 2010 to 11 FEB 2010

VOR/DME MTJ 117.1 Chan 118	APP CRS 117°	Rwy Idg 7500 TDZE 5719 Apt Elev 5759
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VOR/DME RWY 13
MONTROSE RGNL (MTJ)

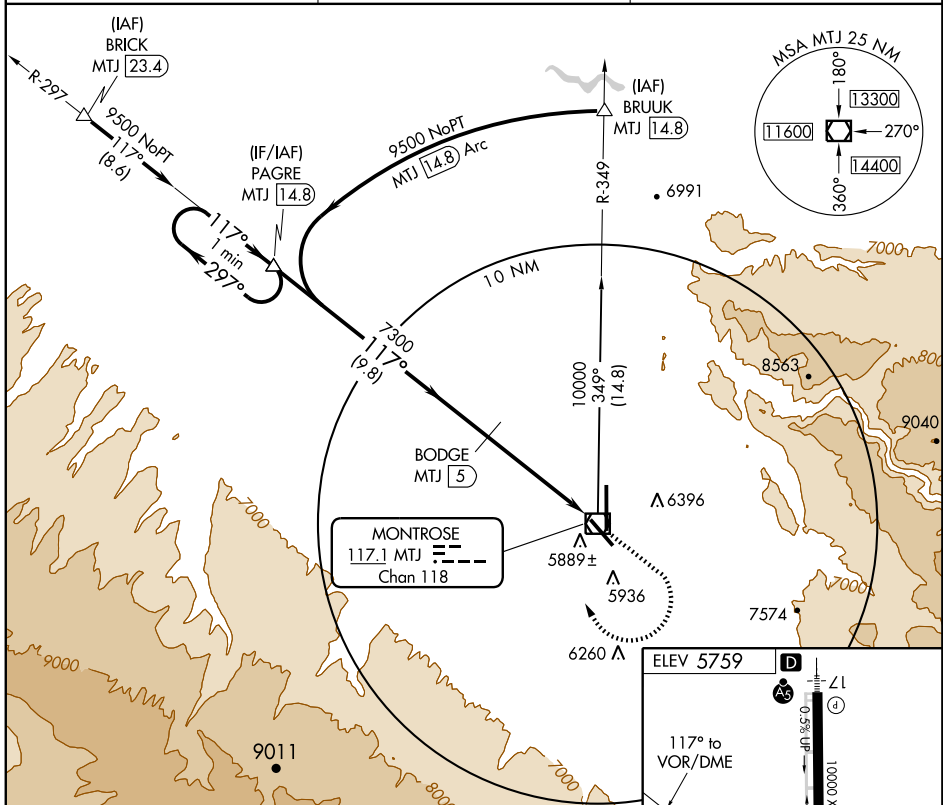
MONTROSE RGNL (MTJ)

Visibility reduction by helicopters NA.

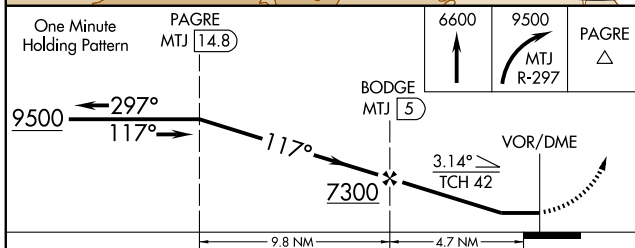
MISSED APPROACH: Climb to 6600 then climbing right turn to 9500 via MTJ VOR/DME R-297 to PAGRE/14.8 DME and hold.

ASOS
135.225

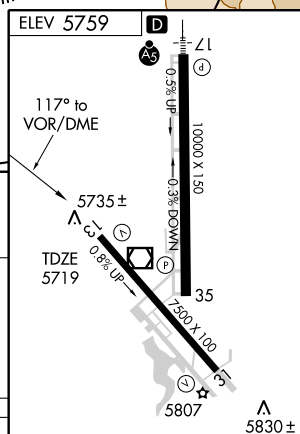
DENVER CENTER
125.35 354.05

UNICOM
122.8 (CTAF) **L**

SW-1: 14 JAN 2010 to 11 FEB 2010

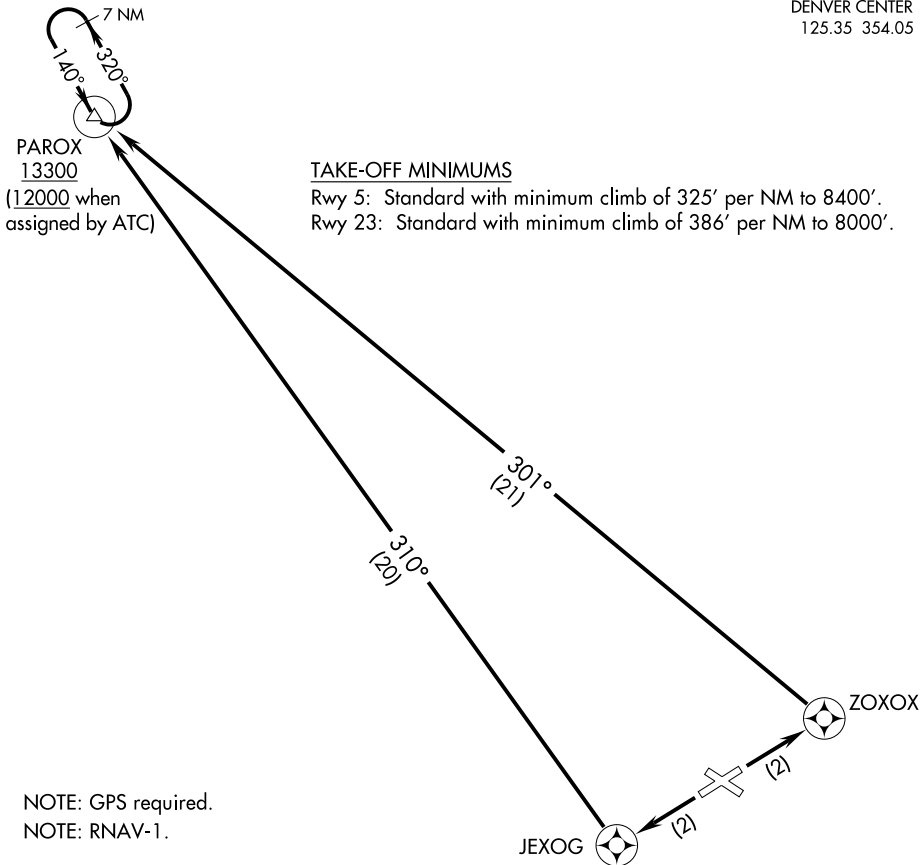


CATEGORY	A	B	C	D
S-13	6140-1 421 (400-1)		6140-1 $\frac{1}{4}$ 421 (400-1 $\frac{1}{4}$)	
CIRCLING	6240-1 481 (500-1)	6300-1 541 (600-1)	6660-2 $\frac{3}{4}$ 901 (1000-2 $\frac{3}{4}$)	6700-3 941 (1000-3)



REIL Rwys 13, 31 and 35 **L**
HIRL Rwys 13-31 and 17-35 **L**

NUCLA ONE DEPARTURE (RNAV) (OBSTACLE)

DENVER CENTER
125.35 354.05TAKE-OFF OBSTACLE NOTES

Rwy 5: Vehicle on road at DER, left and right of centerline, 15' AGL/5962' MSL.

Tree 202' from DER, 309' right of centerline, 20' AGL/5979' MSL.

Rwy 23: Tree 13' from DER, 181' right of centerline, 20' AGL/5905' MSL.

Vehicle on road 209' from DER, left and right of centerline, 15' AGL/ 5922' MSL.

Tree 125' from DER, 91' left of centerline, 20' AGL/ 5902' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climb to 12000 direct ZOXOX and left turn via 301° track to PAROX, thence . . .TAKE-OFF RUNWAY 23: Climb to 12000 direct JEXOG and right turn via 310° track to PAROX, thence . . .

. . . climb in PAROX holding pattern (hold NW, left turns, 140° inbound) to cross PAROX at or above 13300 (12000 when assigned by ATC) before proceeding enroute.

APP CRS	Rwy Idg	N/A
126°	TDZE	N/A
	Apt Elev	5940

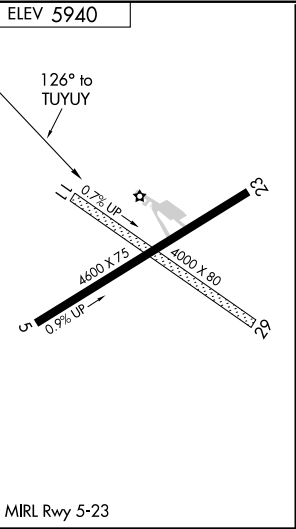
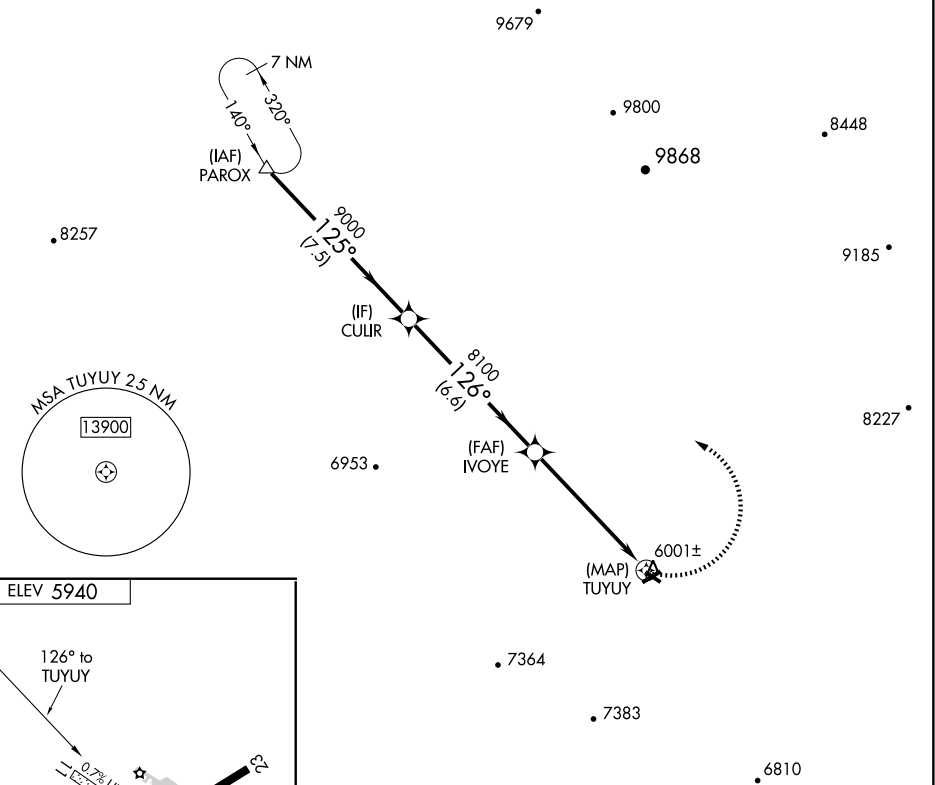
RNAV (GPS)-A
NUCLA/ HOPKINS FIELD (AIB)

NA DME/DME RNP-0.3 NA.
If local altimeter setting not received, procedure NA.
Circling to Rwys 11/29 NA.

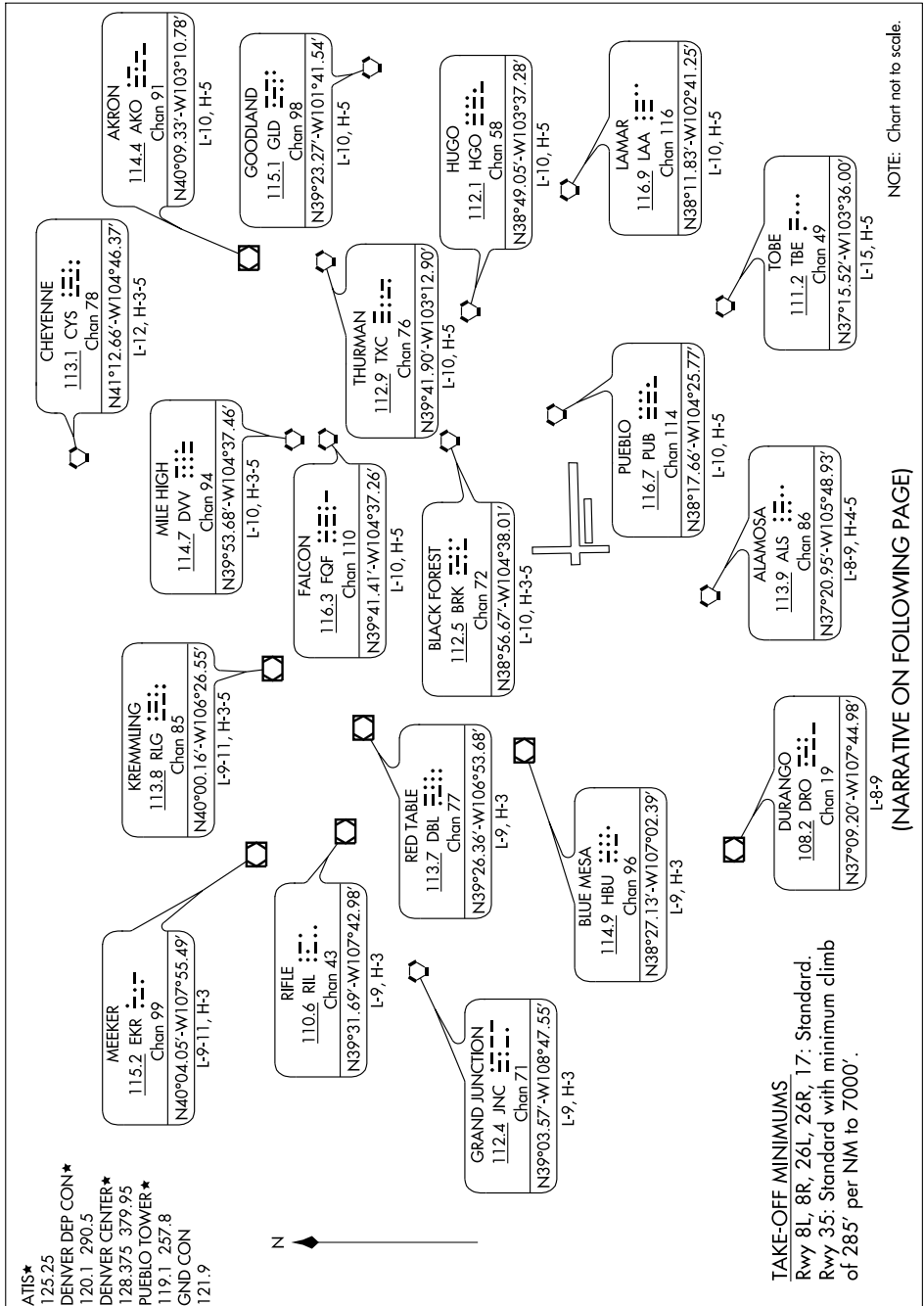
MISSED APPROACH: Climbing left turn to 12000 direct PAROX and hold, continue climb-in-hold to 12000.

AWOS-3 132.525	DENVER CENTER 125.35 354.05	UNICOM 122.8 (CTAF)
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NoPT for arrival at PAROX on V391 southbound.
All arrivals via V244 descend to 12000 in PAROX holding pattern before departing PAROX.



PAROX	CULIR	IVOYE	TUYUY
12000	9000	8100	
Procedure Turn NA			
7.5 NM	6.6 NM	5.8 NM	
CATEGORY	A	B	C
CIRCLING	6600-1 660 (700-1)	6600-1 660 (700-1 3/4)	NA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8L: Climb assigned heading between 020° and 100° to 7000' or assigned ATC altitude. Thence. . . .

TAKE-OFF RUNWAY 8R: Climb assigned heading between 020° and 100° to 7000' or assigned ATC altitude. Thence. . . .

TAKE-OFF RUNWAY 26L: Climb assigned heading between 240° and 280° to 7000' or assigned ATC altitude. Thence. . . .

TAKE-OFF RUNWAY 26R: Climb assigned heading between 240° and 280° to 7000' or assigned ATC altitude. Thence. . . .

TAKE-OFF RUNWAY 17: Climb assigned heading between 150° and 190° to 7000' or assigned ATC altitude. Thence. . . .

TAKE-OFF RUNWAY 35: Climb assigned heading between 020° and 040° to 7000' or assigned ATC altitude. Thence. . . .

. . . . Expect RADAR vectors to intercept filed/assigned route or enroute FIX/NAVAID. Maintain ATC assigned altitude. Expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS

If no transmissions are received within 1 minute after departure, maintain assigned heading until 7,000' (Runway 26 departures will need to turn left direct PUB VORTAC due to antenna NW of departure end), then climb to filed altitude direct PUB VORTAC.

TAKE-OFF OBSTACLE NOTES

Runway 8L: Rising terrain 57' from DER, 123' left of centerline, up to 4649' MSL.

Runway 8R: Rising terrain 180' from DER, 58' left of centerline, up to 4659' MSL.

Runway 26L: Rising terrain 110' from DER, 182' right of centerline, up to 4659' MSL, rising terrain 128' from DER, 122' left of centerline, up to 4659' MSL.

Runway 26R: Rising terrain 208' from DER, 446' right of centerline, up to 4679' MSL.

Runway 35: Rising terrain 2' from DER, 7' left of centerline, up to 4749' MSL, rising terrain 196' from DER, 11' right of centerline up to 4793' MSL, transmission poles 1.1 NM from DER, 703' right of centerline, 46' AGL/4925' MSL, RADAR reflector 996' from DER, on centerline, 4' AGL/4757' MSL.

APP CRS	Rwy Idg	8308
167°	TDZE	4726
	Apt Elev	4726

T
A NA

MISSED APPROACH: Climb to 7500 via 167° course to PUCUB WP and hold.

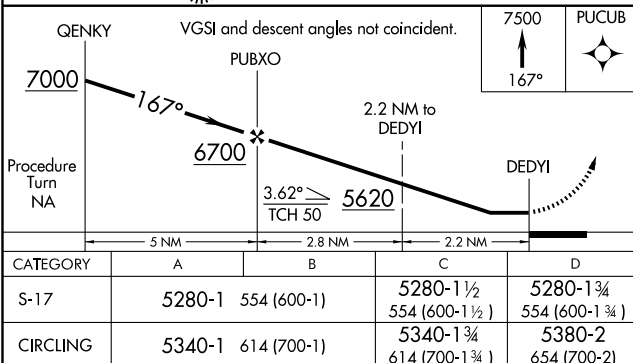
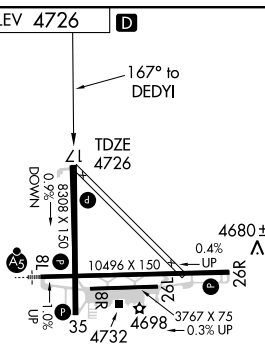
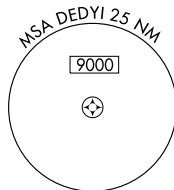
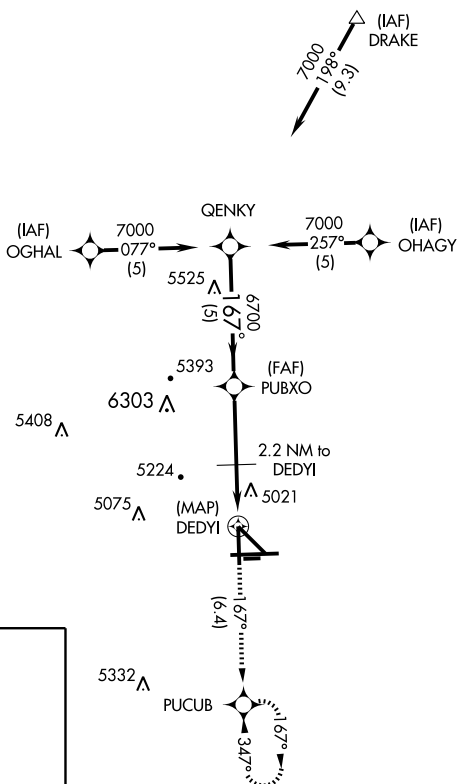
ATIS ★
125.25

DENVER APP CON ★
120.1 290.5

PUEBLO TOWER ★
119.1 (CTAF) 257.8

GND CON
121.9

CLNC DEL
120.9

UNICOM
122.95

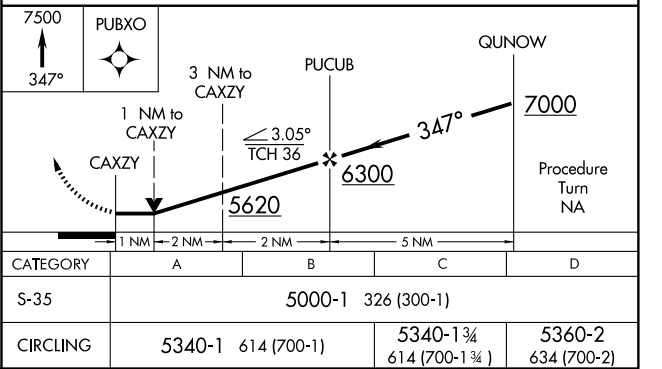
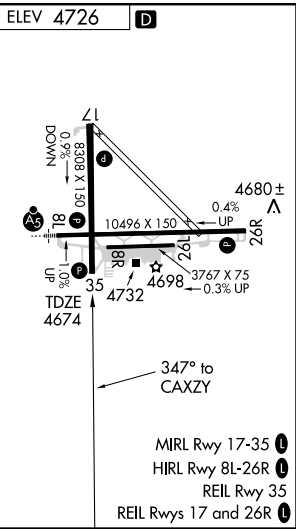
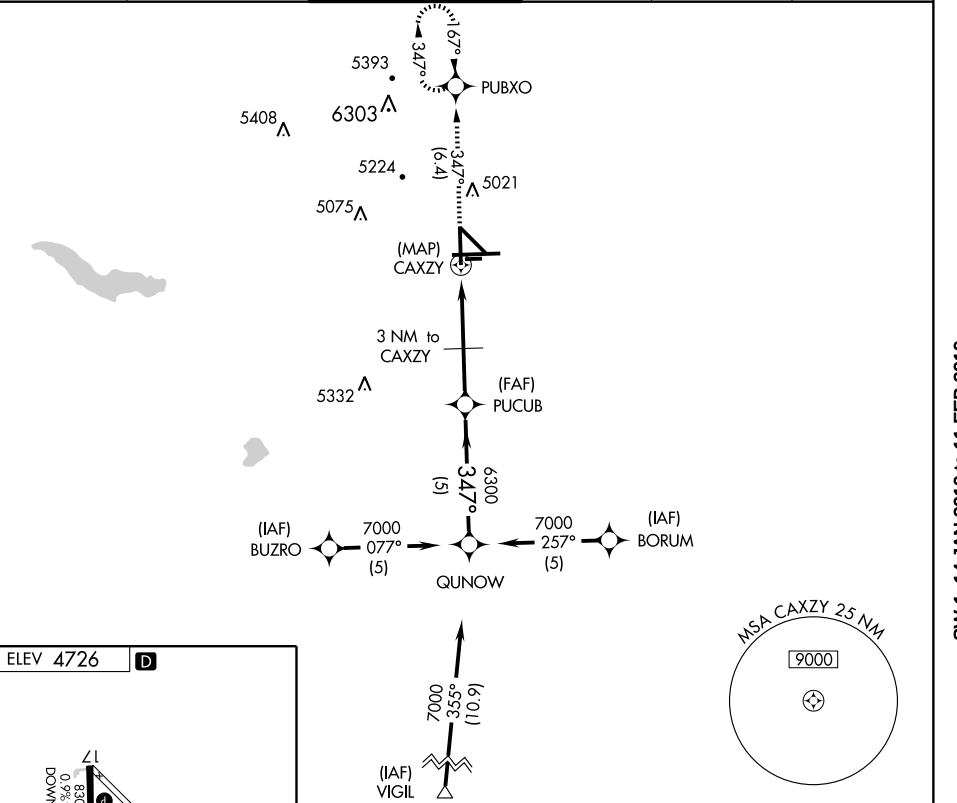
SW-1. 14 JAN 2010 to 11 FEB 2010

MIRL Rwy 17-35 **L**
HIRL Rwy 8L-26R **L**
REIL Rwy 35
REIL Rwy 17 and 26R **L**

NA

MISSED APPROACH: Climb to 7500 via 347° course to PUBXO WP and hold.

ATIS ★ 125.25	DENVER APP CON ★ 120.1 290.5	PUEBLO TOWER ★ 119.1 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 120.9	UNICOM 122.95
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SW-1. 14 JAN 2010 to 11 FEB 2010

LOC I-PUB <u>109.5</u>	APP CRS 077°	Rwy Idg TDZE Apt Elev	10496 4668 4726
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ILS or LOC RWY 8L
PUEBLO MEMORIAL (PUB)

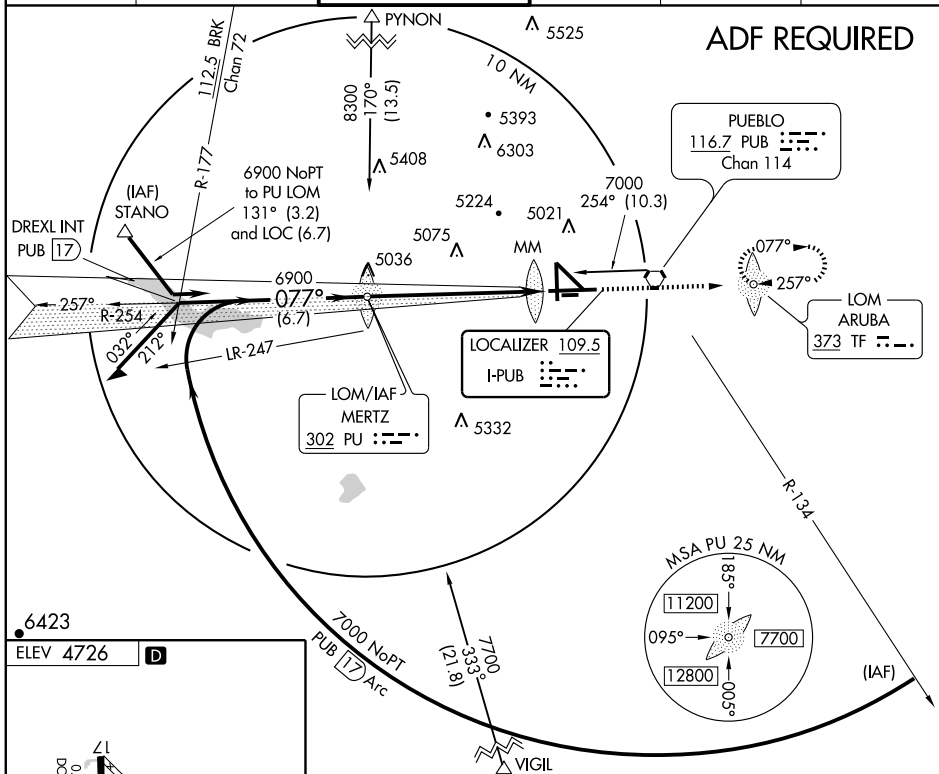
T *Procedure turn not authorized for Cat. E aircraft.
A Cat. E circling not authorized west of Rwy 17-35.
ILS glideslope unusable for coupled approaches below 4910 MSL.

MALS

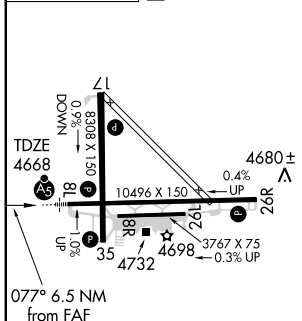


MISSED APPROACH: Climb to 7000 direct ARUBA LOM and hold.

ATIS ★ 125.25	DENVER APP CON ★ 120.1 290.5	PUEBLO TOWER ★ 119.1 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 120.9	UNICOM 122.95
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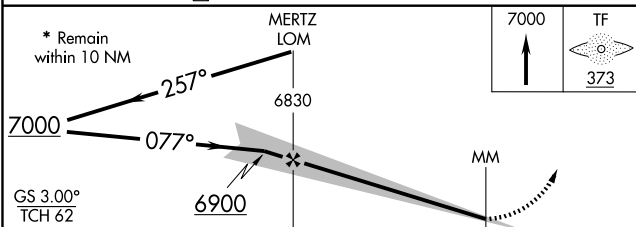


ELEV 4726	D
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MIRL Rwy 17-35 **L**
HIRL Rwy 8L-26R **L**
REIL Rwy 35
REIL Rwy 17 and 26R **L**

FAF to MAP 6.5 NM					
Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10



CATEGORY		A	B	C	D	E
S-ILS 8L		4868-½ 200 (200-½)				
S-LOC 8L	5260-½	592 (600-½)	5260-1 592 (600-1)	5260-1¼ 592 (600-1¼)	5260-1½ 592 (600-1½)	
CIRCLING	5340-1	614 (700-1)	5340-1¾ 614 (700-1¾)	5380-2 654 (700-2)	5660-3 934 (1000-3)	

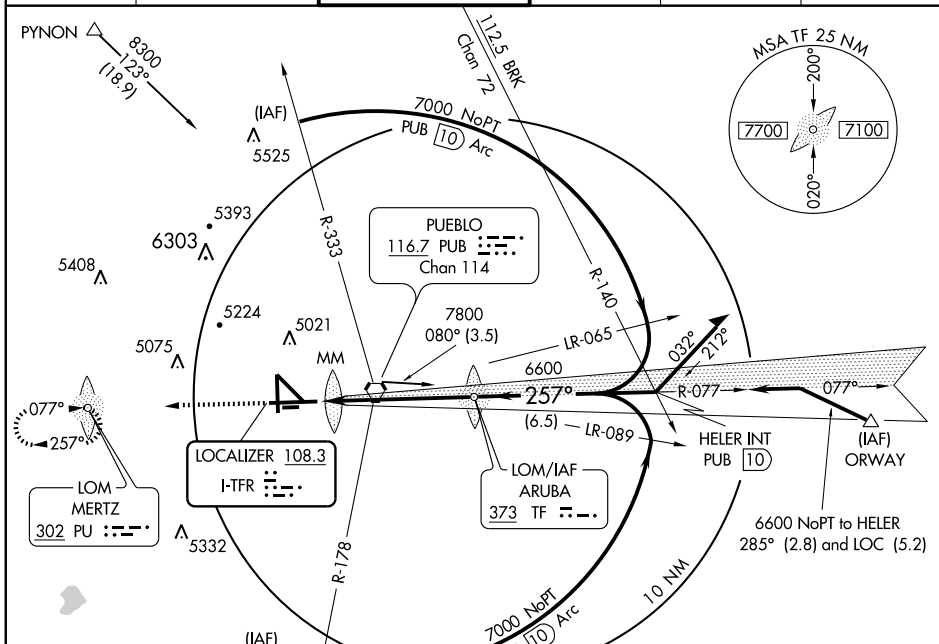
LOC I-TFR <u>108.3</u>	APP CRS 257°	Rwy Idg TDZE Apt Elev	10496 4656 4726
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ILS or LOC RWY 26R
PUEBLO MEMORIAL (PUB)

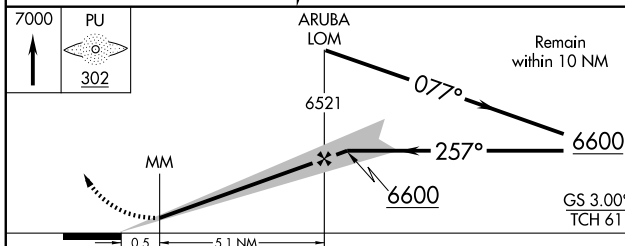
T
A Procedure not authorized when Pueblo
altimeter setting not available.

MISSED APPROACH: Climb to 7000 direct MERTZ LOM and hold. (TACAN aircraft climb to 5500 then climbing left turn to 8000 via PUB R-178 to HUNER 10 DME and hold south, right turns 358° inbound, 8 NM legs).

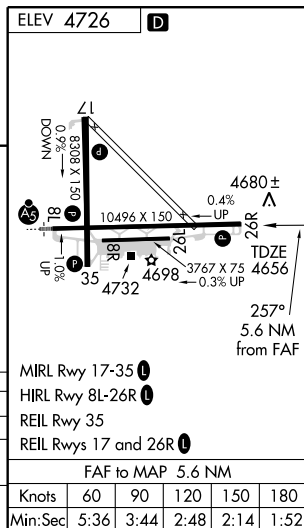
ATIS ★ 125.25	DENVER APP CON ★ 120.1 290.5	PUEBLO TOWER ★ 119.1 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 120.9	UNICOM 122.95
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ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 26R	4856-34			200 (200-34)
S-LOC 26R	5060-1	404 (400-1)	5060-1 14	404 (400-1 14)
CIRCLING	5340-1	614 (700-1)	5340-1 34 614 (700-1 34)	5380-2 654 (700-2)



WAAS CH 61011 W08A	APP CRS 077°	Rwy Idg TDZE Apt Elev	10496 4668 4726
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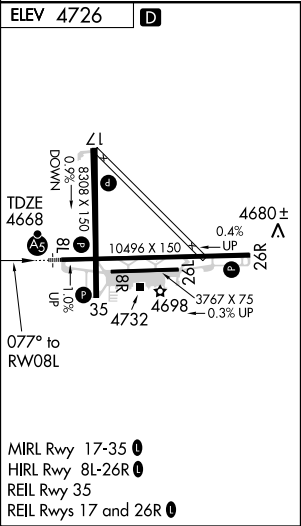
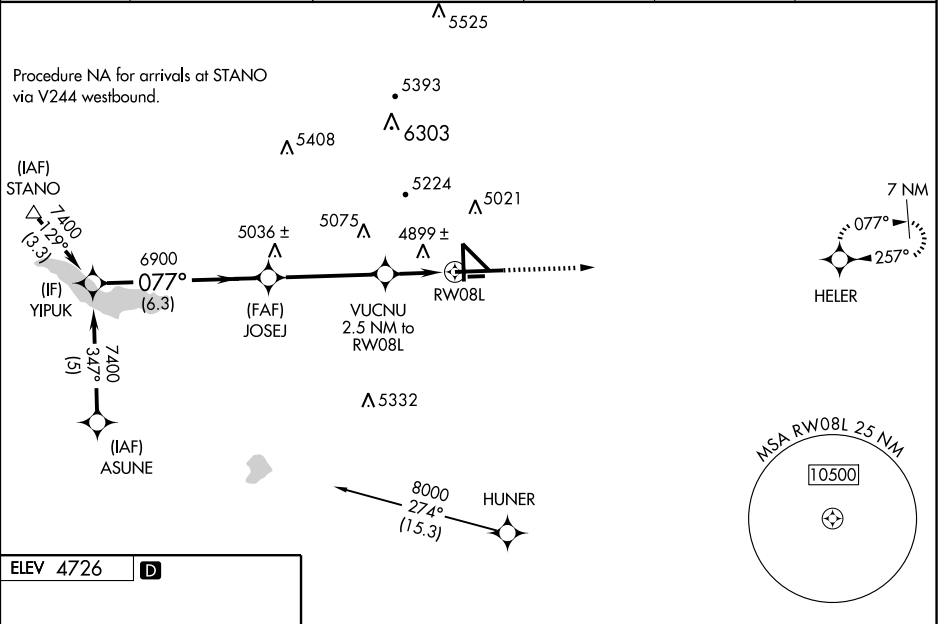
RNAV (GPS) RWY 8L
PUEBLO MEMORIAL (PUB)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 40°C (104°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, use La Junta altimeter setting and increase all DA/MDA 200 feet and increase visibilities: LPV all Cats ½ mile, LNAV/VNAV all Cats ¾ mile, LNAV Cats C and D ¾ mile, and Circling Cat B ¾ mile and Cats C and D ¾ mile. When using La Junta altimeter setting, for inoperative MALSR increase LPV all Cats visibility ½ mile. Baro-VNAV and VDP NA when using La Junta altimeter setting.

MALSR

MISSED APPROACH:
Climb to 7000 direct
HELER and hold.

ATIS ★ 125.25	DENVER APP CON ★ 120.1 290.5	PUEBLO TOWER ★ 119.1 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 120.9	UNICOM 122.95
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	YIPUK	JOSEJ	VUCNU 2.5 NM to RWY08L	*1.4 NM to RWY08L	*LNAV only
	7400	6900	5520*		
	6.3 NM	4.2 NM	1.1 NM	1.4 NM	
CATEGORY	A	B	C	D	
LPV DA	4918-1½ 250 (300-1½)				
LNAV/ VNAV DA	5227-1½ 559 (600-1½)				
LNAV MDA	5160-1½ 492 (500-1½)		5160-¾ 492 (500-¾)	5160-1 492 (500-1)	
CIRCLING	5340-1 614 (700-1)		5340-1¾ 614 (700-1¾)	5380-2 654 (700-2)	

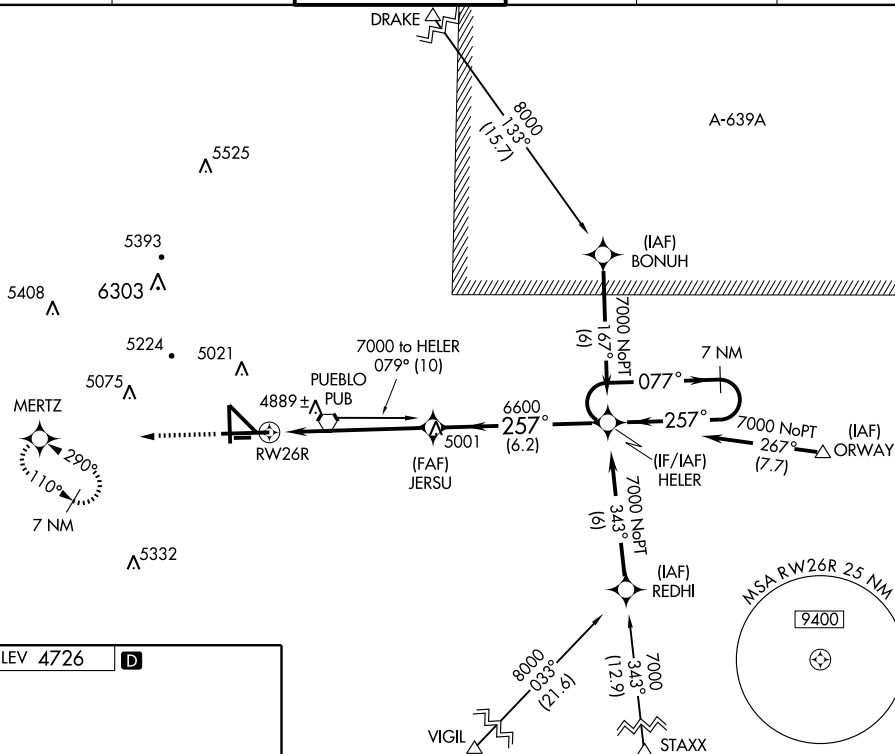
WAAS CH 45702 W26A	APP CRS 257°	Rwy Idg 10496 TDZE 4656 Apt Elev 4726
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RNAV (GPS) RWY 26R
PUEBLO MEMORIAL (PUB)

T DME/DME RNP-0.3 NA.
A If local altimeter setting not received, use city of Colorado Springs Muni altimeter setting and increase all DAs 369 feet and MDAs 380 feet. VDP NA when using city of Colorado Springs Muni altimeter setting.

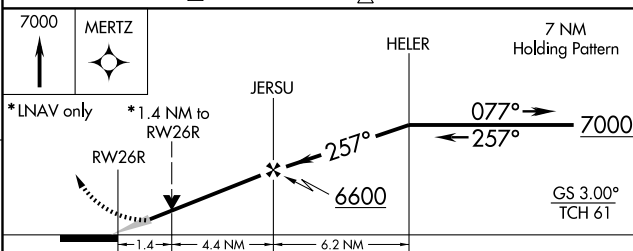
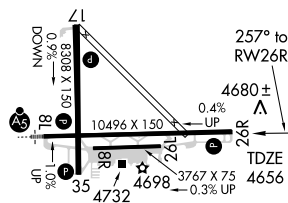
MISSED APPROACH: Climb to 7000 direct MERTZ and hold.

ATIS ★	DENVER APP CON ★	PUEBLO TOWER ★	GND CON	CLNC DEL	UNICOM
125.25	120.1 290.5	119.1 (CTAF) 0 257.8	121.9	120.9	122.95



SW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 4726



CATEGORY	A	B	C	D
LPV DA	4856- ³ / ₄ 200 (200- ³ / ₄)			
LNAV MDA	5140-1	484 (500-1)	5140-1 ¹ / ₄ 484 (500-1 ¹ / ₄)	5140-1 ¹ / ₂ 484 (500-1 ¹ / ₂)
CIRCLING	5340-1	614 (700-1)	5340-1 ³ / ₄ 614 (700-1 ³ / ₄)	5380-2 654 (700-2)

MIRL Rwy 17-35 L

HIRL Rwy 8L-26R **L**

REIL Rwy 35

REIL Rwy 17 and 26R **L**

VORTAC PUB 116.7 Chan 114	APP CRS 244°	Rwy Idg TDZE 4656 Apt Elev 4726
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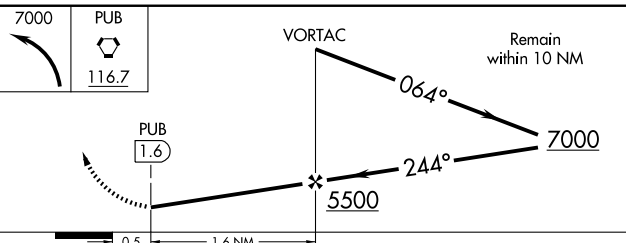
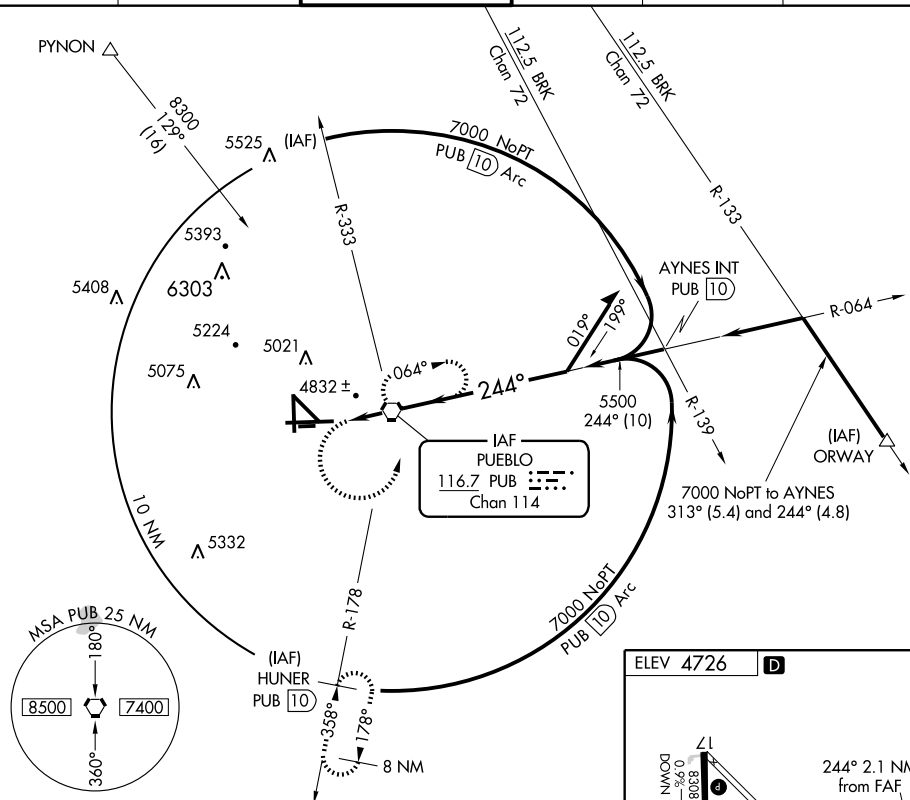
VOR or TACAN RWY 26R

PUEBLO MEMORIAL (PUB)

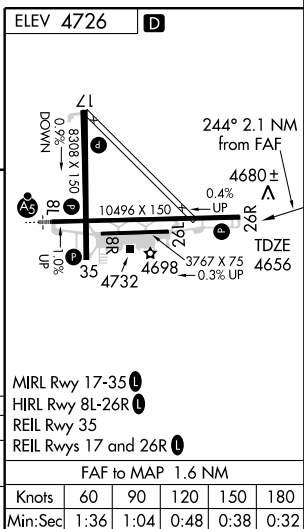
Procedure not authorized when Pueblo altimeter setting not available.

MISSED APPROACH: Climbing left turn to 7000 direct PUB VORTAC and hold. (TACAN aircraft climbing left turn to 8000 via PUB R-178 to HUNER 10 DME and hold south, right turns, 358° inbound, 8 NM legs.)

ATIS ★ 125.25	DENVER APP CON ★ 120.1 290.5	PUEBLO TOWER ★ 119.1 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 120.9	UNICOM 122.95
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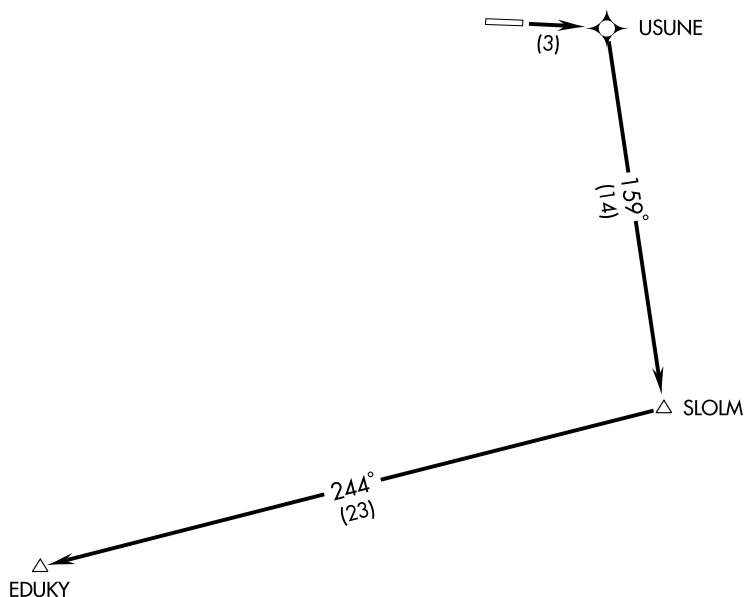
CATEGORY	A	B	C	D
S-26R	5100-1 444 (400-1)		5100-1 ¼ 444 (400-1 ¼)	5100-1 ½ 444 (400-1 ½)
CIRCLING	5340-1 614 (700-1)		5340-1 ¾ 614 (700-1 ¾)	5380-2 654 (700-2)



EDUKY TWO DEPARTURE (RNAV)

RIFLE, COLORADO

DENVER CENTER
134.5 327.8

TAKE-OFF MINIMUMS

Rwy 26: NA- ATC.

Rwy 8: Standard with a minimum climb of 396' per NM to 11100.

NOTE: GPS Required.

NOTE: RNAV 1

TAKE-OFF OBSTACLE NOTES

Rwy 8: Multiple transmission line towers beginning 1.2 NM from DER, 437' right of centerline, up to 150' AGL/6069' MSL.

Numerous trees beginning 1.9 NM from DER, 647' right of centerline, up to 100' AGL/5983' MSL.

Terrain beginning 124' from DER, 287' right of centerline, up to 5863' MSL.

Pole, 1083' from DER, 656' right of centerline, 28' AGL/5588' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb to 13000 direct USUNE, and via 159° track to SLOLM and via 244° track to EDUKY.

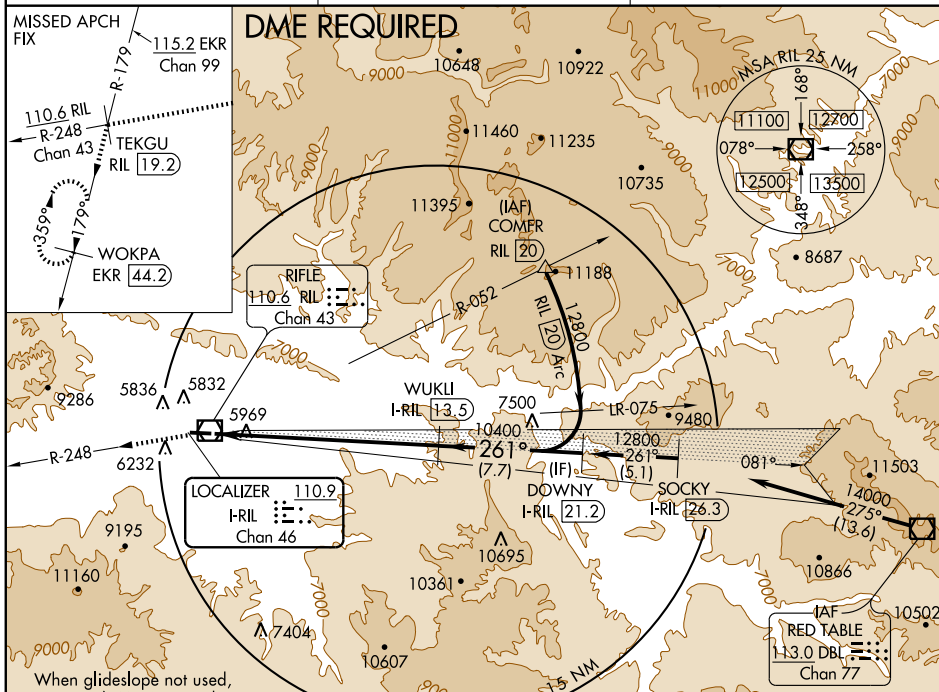
LOC/DME I-RIL 110.9 Chan 46	APP CRS 261°	Rwy Idg TDZE Apt Elev 7011 5548 5548
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ILS RWY 26

RIFLE/GARFIELD COUNTY RGNL (RIL)

 Circling not authorized. Use I-RIL DME when on localizer course. Visibility reduction by helicopters NA.	ODALS 	MISSED APPROACH: Climb to 13000 via RIL VOR/DME R-248 to TEKGU/RIL 19.2 DME and via EKR VOR/DME R-179 to WOKPA/EKR 44.2 DME and hold.
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ASOS 135.275	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 0
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13000	TEKGU RIL 19.2	EKR R-179 115.2	WOKPA EKR 44.2	Procedure Turn NA	DOWNY I-RIL 21.2	WUKLI I-RIL 13.5	10400	261°	12800	10400	GS 3.60° TCH 56	12.2 NM	7.7 NM
CATEGORY	A	B	C	D									
S-ILS 26	6800-4	1252 (1300-4)			NA								

MIRL Rwy 8-26 0

REIL Rwy 8 and 26 0

LOC/DME I-RIL 110.9 Chan 46	APP CRS 261°	Rwy Idg TDZE Apt Elev N/A N/A 5548
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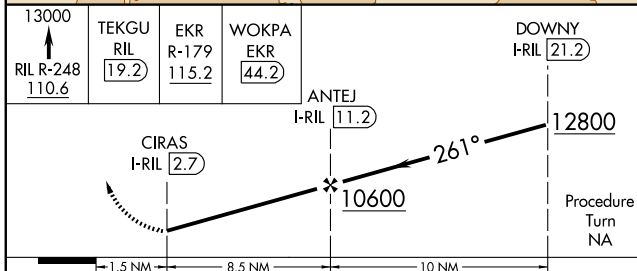
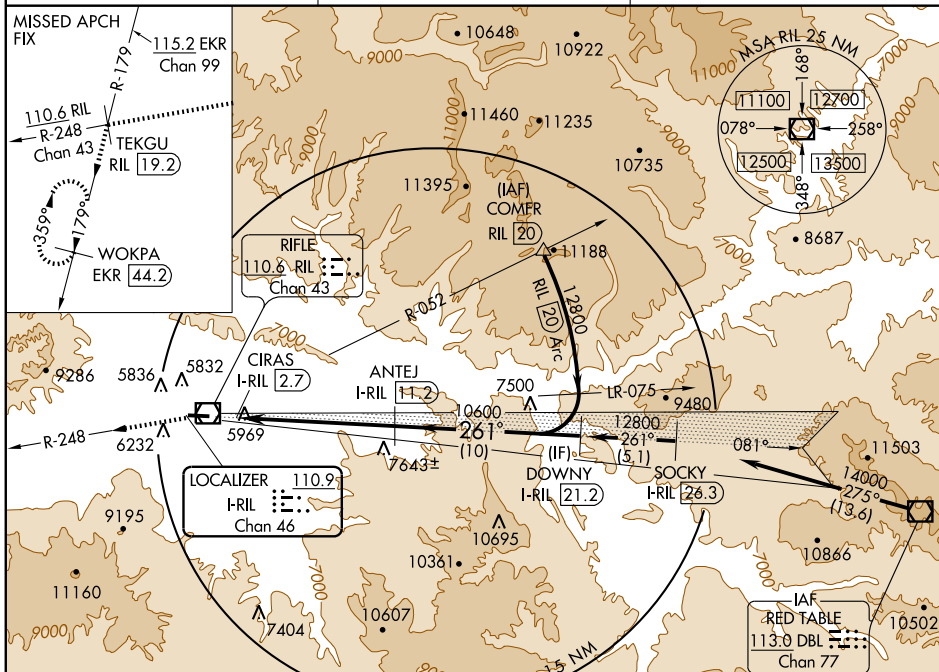
LOC/DME-A

RIFLE/GARFIELD COUNTY RGNL (RIL)

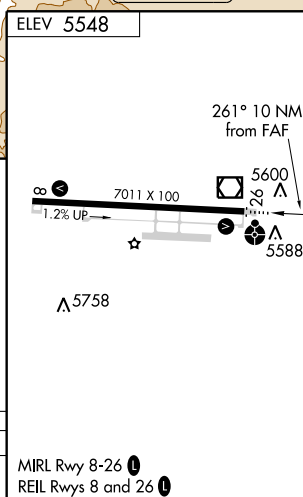
⚠ Circling not authorized at night south of Rwy 8-26.
⚠ Use I-RIL DME when on localizer course.

MISSED APPROACH: Climb to 13000 via RIL VOR/DME
R-248 to TEKGU/RIL 19.2 DME and via EKR VOR/DME
R-179 to WOKPA/EKR 44.2 DME and hold.

ASOS 135.275	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	7860-13/4	2312 (2400-13/4)	7860-3 2312 (2400-3)	NA



APP CRS 261°	Rwy Idg TDZE Apt Elev	7011 5548 5548
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RNAV (GPS) W RWY 26

RIFLE/GARFIELD COUNTY RGNL(RIL)

T Circling not authorized at night south of Rwy 8-26.
A Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

ODALS

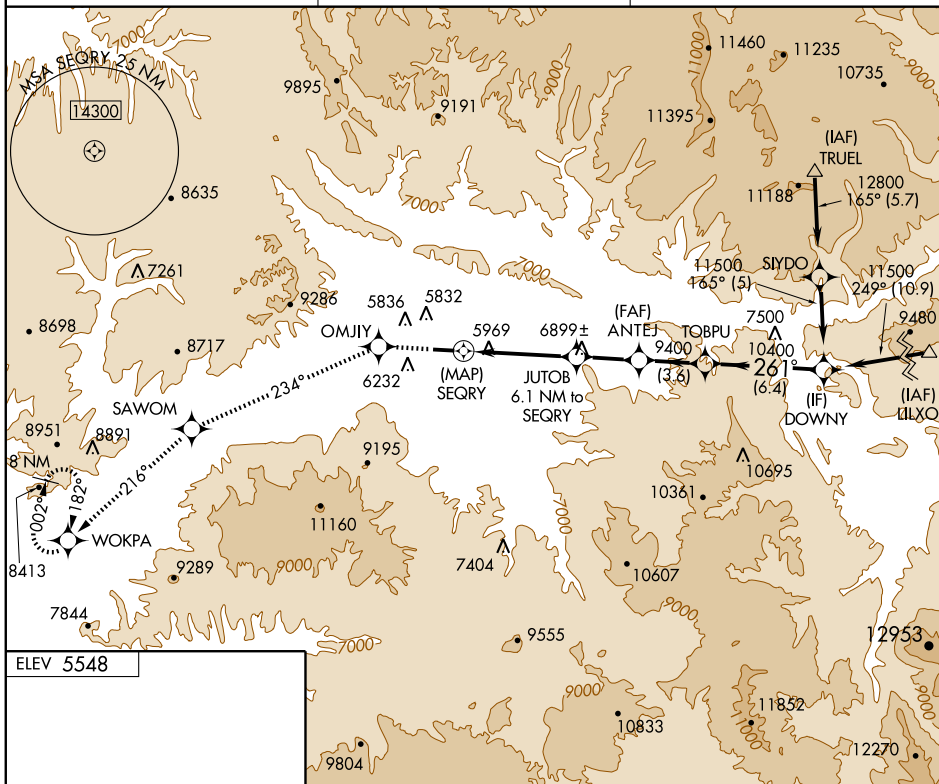


MISSED APPROACH: Climb to 13000 direct OMJIY and via 234° track to SAWOM and via 216° track to WOKPA and hold.

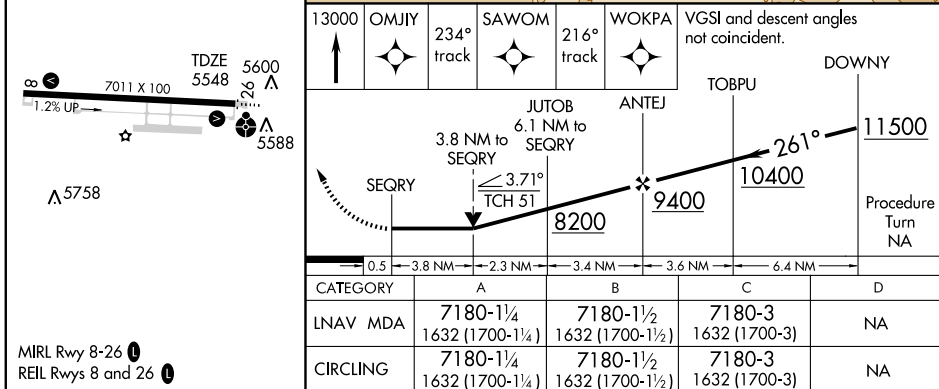
ASOS
135,275

DENVER CENTER
134.5 327.8

UNICOM
122.8 (CTAF) **L**



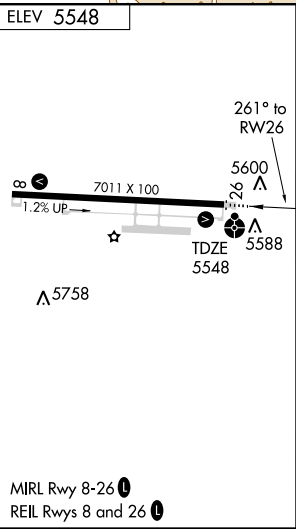
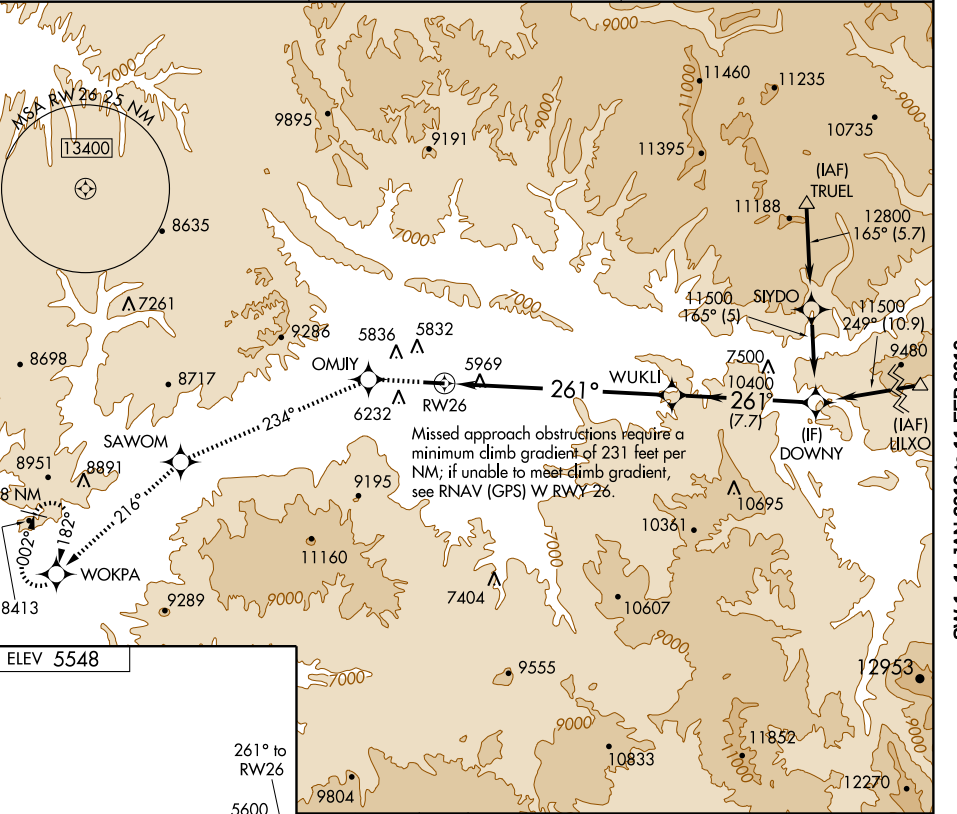
SW-1: 14 JAN 2010 to 11 FEB 2010



WAAS CH 93708 W26A	APP CRS 261°	Rwy Idg TDZE Apt Elev	7011 5548 5548
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▼ ▲ Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.	ODALS	MISSED APPROACH: Climb to 13000 direct OMJY and via 234° track to SAWOM and via 216° track to WOKPA and hold.
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ASOS 135.275	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 0
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↑		234° track		216° track		Procedure Turn NA
VGSI and RNAV glidepath not coincident.						DOWNY
						GS 3.60° TCH 56
CATEGORY	A	B	C	D		
LPV DA	6371-2½ 823 (900-2½)					NA

SW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS 261°	Rwy Idg TDZE Apt Elev	7011 5548 5548
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RNAV (RNP) Y RWY 26

RIFLE/GARFIELD COUNTY RGNL (RIL)

- ▼ GPS required. Visibility reduction by helicopters NA.
▲ Procedure NA for aircraft with wingspan greater than 136 feet.
For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 38°C (101°F).
* Missed approach requires minimum climb of 270 feet per NM to 7000.
When VGSi inoperative, procedure NA at night.

ODALS

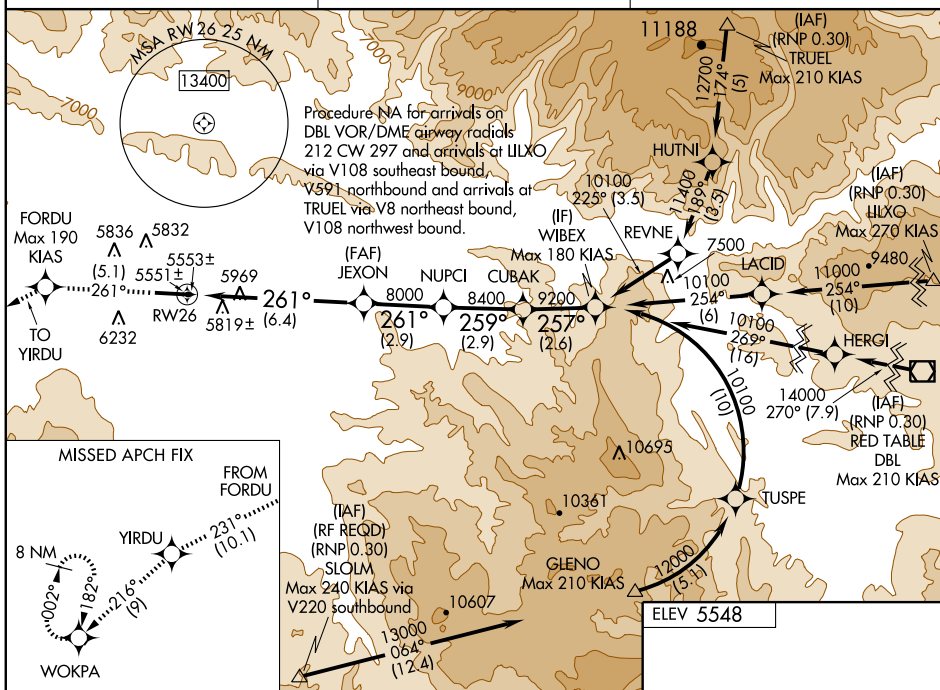


MISSED APPROACH: (Do not exceed 190 KIAS until FORDU) Climb to 13000 via 261° track to FORDU and via 231° track to YIRDU and via 216° track to WOKPA and hold, continue climb-in-hold to 13000.

ASOS
135.275

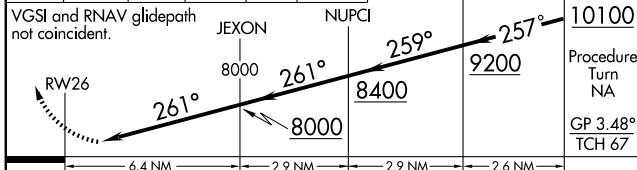
DENVER CENTER
134.5 327.8

UNICOM
122.8 (CTAF) 



13000 ↑ 261°	FORDU 	231° track	YIRDU 	216° track	WOKPA 
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VGSI and RNAV glidepath
not coincident



CATEGORY	A	B	C	D
RNP 0.30 DA*	6205-2	657 (700-2)		NA
RNP 0.30 DA	6333-2 $\frac{1}{4}$	785 (800-2 $\frac{1}{4}$)		NA

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

MIRL Rwy 8-26 L

REIL Rwy 8 and 26 L

APP CRS	Rwy Idg	7011
081°	TDZE	5498
	Apt Elev	5548

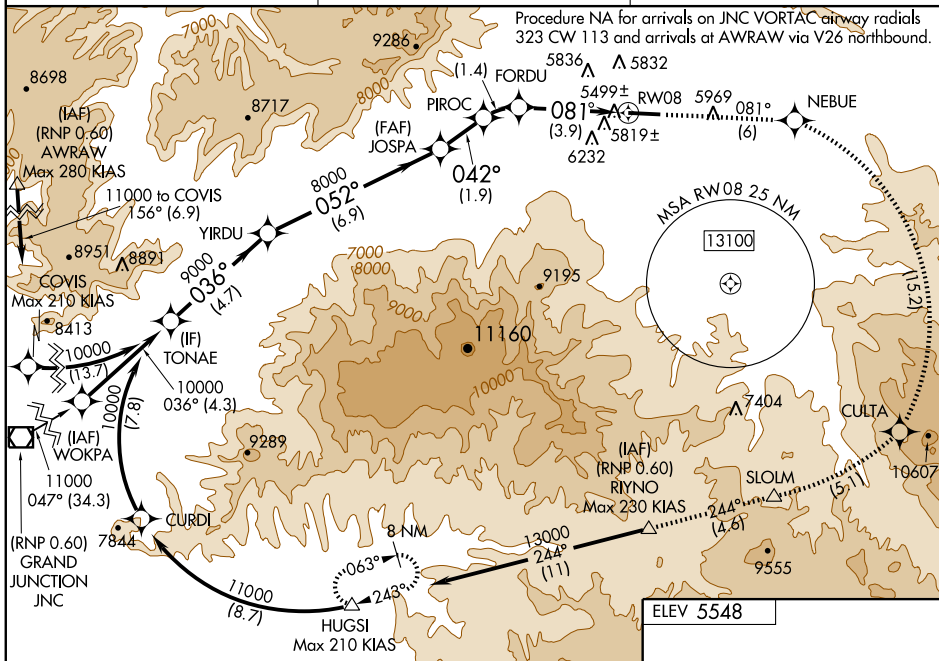
RNAV (RNP) Z RWY 8

RIFLE/ GARFIELD COUNTY RGNL (RIL)

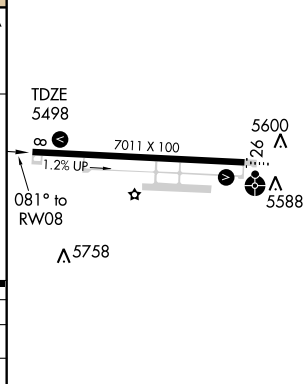
- Procedure NA** for aircraft with wingspans greater than 136 feet.
 For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 54°C (130°F).
 * Missed approach requires minimum climb of 425 feet per NM to 11000.
 ** Missed approach requires minimum climb of 425 feet per NM to 9700; if unable, see RNAV (GPS) Y RWY 8. RF and GPS required.

MISSED APPROACH: Climb to 13000 via 081° track to NEBUE and via right turn to CULTA and via right turn to SLOLM and via 244° track to RIYNO and via 244° track to HUGSI and hold.

ASOS 135.275	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 1
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Procedure Turn NA				
TONAE	YIRDU	JOSP	PIROC	FORDU
10000	9000	8000	7329	6861
GP 3.20° TCH 51	036°	052°	042°	081°
4.7 NM	6.9 NM	1.9 NM	1.4 NM	3.9 NM
CATEGORY	A	B	C	D
RNP 0.10 DA*	5783-1	285 (300-1)		NA
RNP 0.30 DA**	6390-3	892 (900-3)		NA



**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

MIRL Rwy 8-26 1
REIL Rlys 8 and 26 1

APP CRS 261°	Rwy Idg TDZE Apt Elev	7011 5548 5548
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RNAV (RNP) Z RWY 26

RIFLE/GARFIELD COUNTY RGNL (RIL)

T RF and GPS required. Visibility reduction by helicopters NA.
A Procedure NA for aircraft with wingspan greater than 136 feet.
 For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 38°C (101°F). Missed approach requires RNP less than 1.0.
 *Missed approach requires minimum climb of 425 feet per NM to 6500.
 When VGSi inoperative, procedure NA at night.

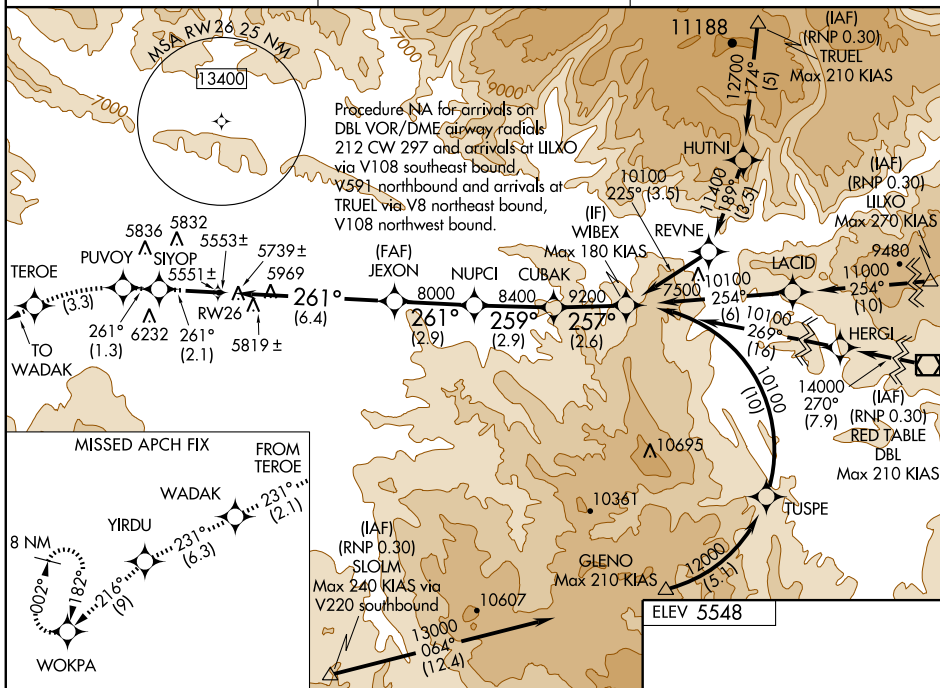
ODALS



MISSED APPROACH: Climb to 13000 via 261° track to SIYOP and via 261° track to PUYOY and via left turn to TEROE and via 231° track to WADAK and via 231° track to YIRDU and via 216° track to WOKPA and hold. continue climb-in-hold to 13000.

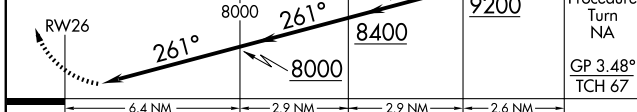
ASOS
135.275

DENVER CENTER
134.5 327.8

UNICOM
122.8 (CTAF) 

13000 ↑ 261°	SIYOP 	261° track	PUYOY 
VGSJ and RNAV glidepath not coincident			JEXON

Not considered:



CATEGORY	A	B	C	D
RNP 0.10 DA*	5990-1¼	442 (500-1¼)		NA
RNP 0.30 DA	6193-2	645 (700-2)		NA

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

MIRL Rwy 8-26 L

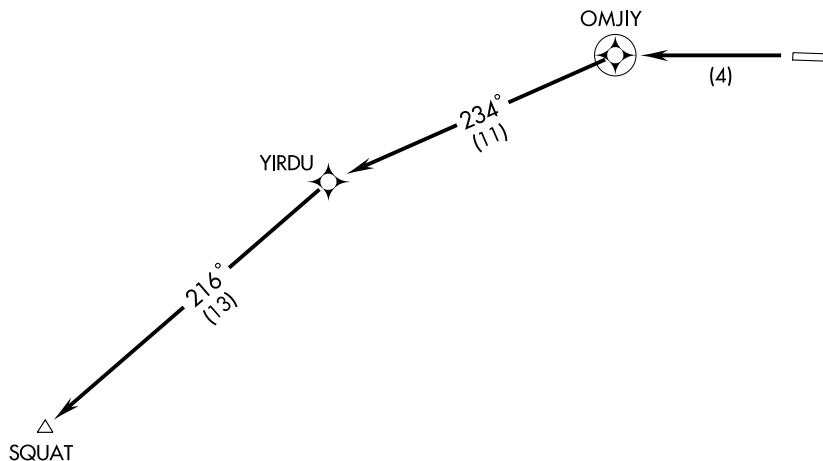
REIL Rwys 8 and 26 **L**

SQUAT TWO DEPARTURE (RNAV) (OBSTACLE)

RIFLE, COLORADO

DENVER CENTER

134.5 327.8

TAKE-OFF MINIMUMS

Rwy 8: NA- ATC.

Rwy 26: Standard with minimum climb of 397' per NM to 9700.

NOTE: GPS Required.

NOTE: RNAV 1

NOTE: Chart not to scale.

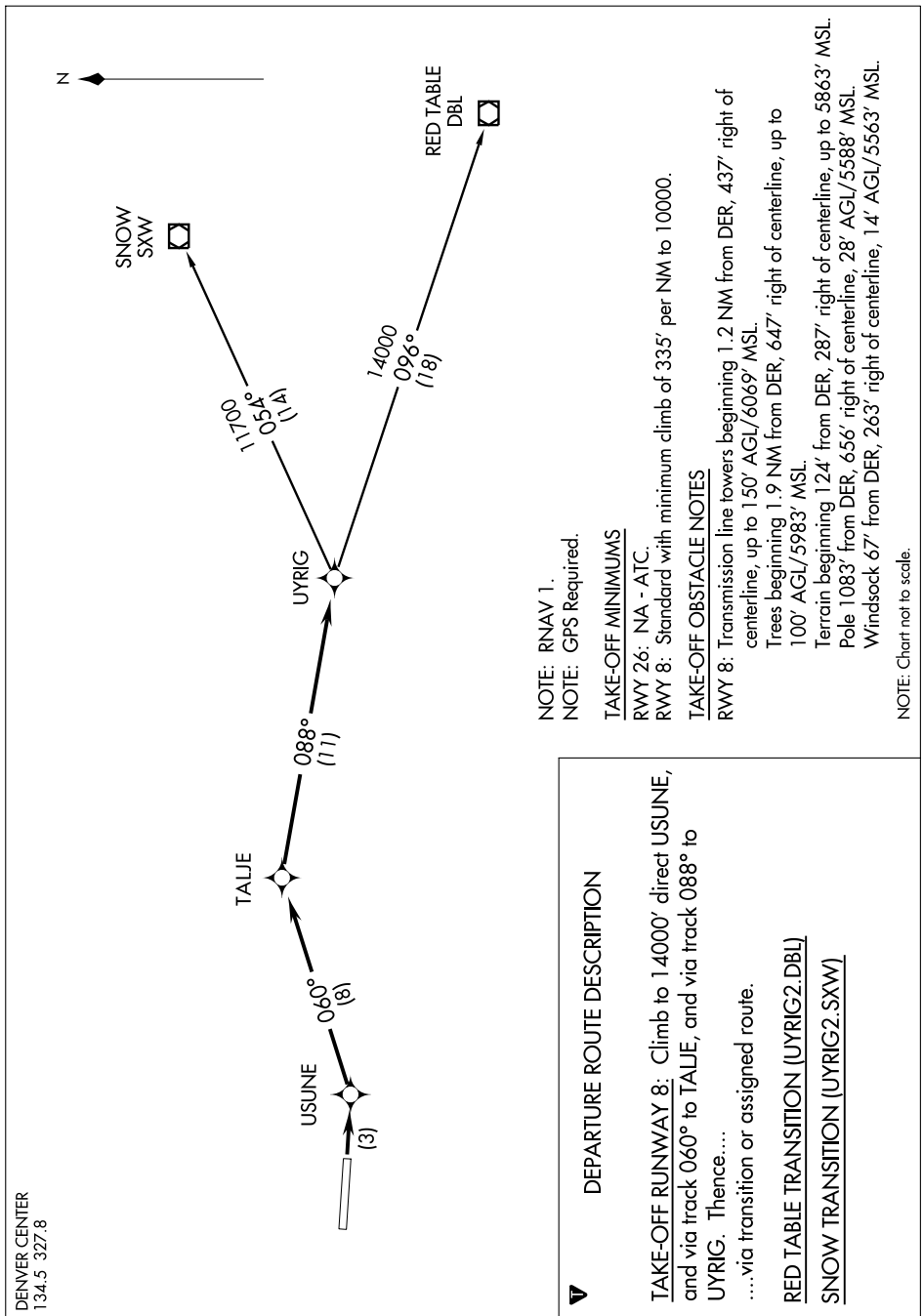


DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 26: Climb to 10500 direct OMJIY, and via 234° track to YIRDU, and via 216° track to SQUAT.

UYRIG TWO DEPARTURE (RNAV)

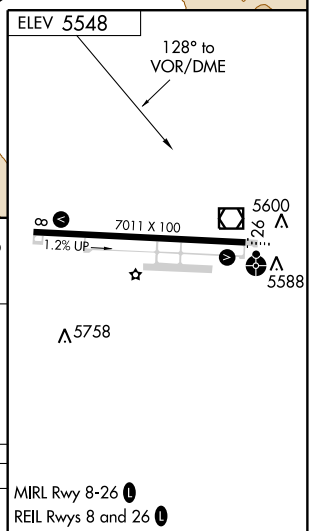
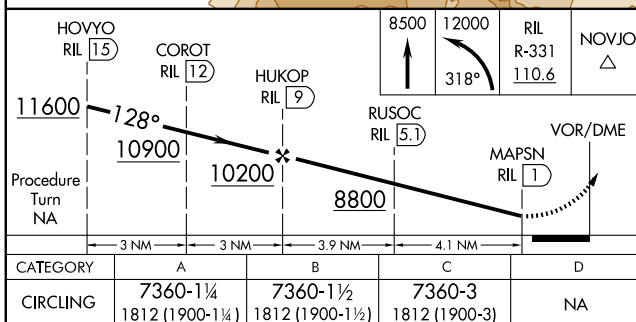
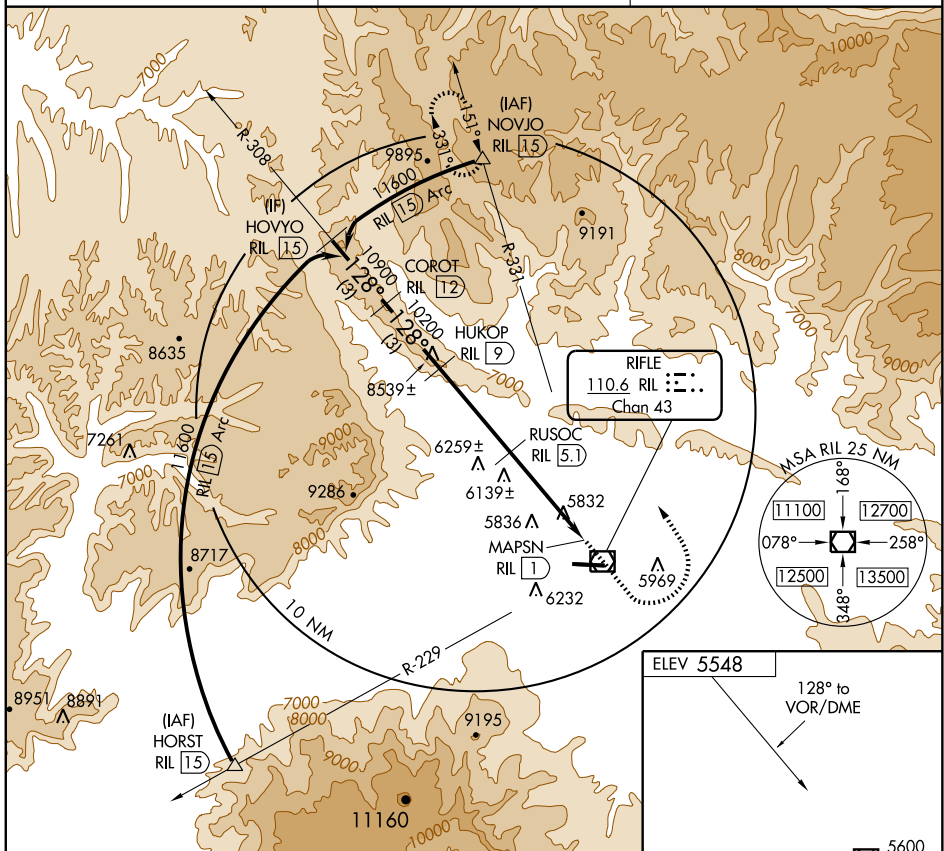
RIFLE, COLORADO



TA

MISSED APPROACH: Climb to 8500, then climbing left turn to 12000 via heading 318° and RIL R-331 to NOVJO/15 DME and hold, continue climb-in-hold to 12000.

UNICOM
122.8 (CTAF) **L**



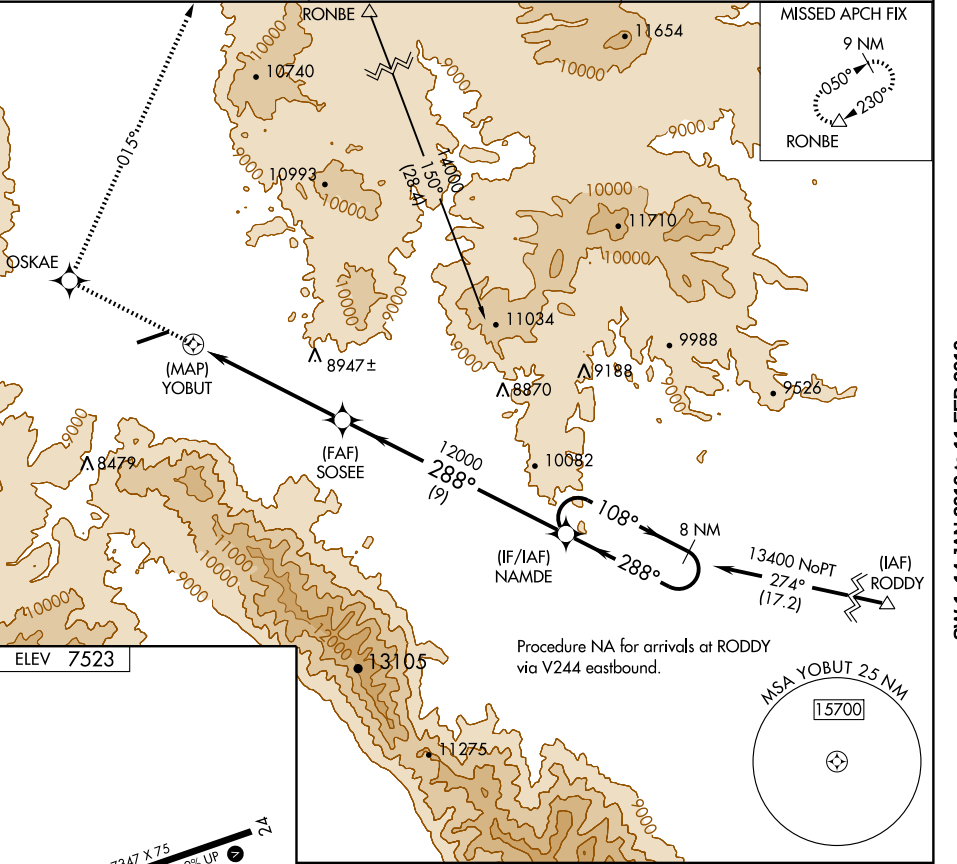
▼

NA

DME/DME RNP-0.3 NA.
Circling to Rwy 6 NA at night.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 16200 direct OSKAE and via 015° track to RONBE and hold, continue climb-in-hold to 16200.

AWOS-3 133.85	DENVER CENTER 128.375 379.95	UNICOM 122.7 (CTAF) 0
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 16200		 OSKAE		015° track  RONBE		NAMDE 8 NM Holding Pattern	
		YOBUT 		SOSEE 		 108° → 13400 ← 288°	
 1 NM		6 NM		9 NM			
CATEGORY	A		B		C	D	
CIRCLING	9720-1¼ 2197 (2200-1¼)		9720-1½ 2197 (2200-1½)		NA		

MIRL Rwy 6-24

APP CRS	Rwy Idg	
171°	TDZE	4390
	Apt Elev	4390

RNAV (GPS) RWY 17
SPRINGFIELD MUNI (8V7)

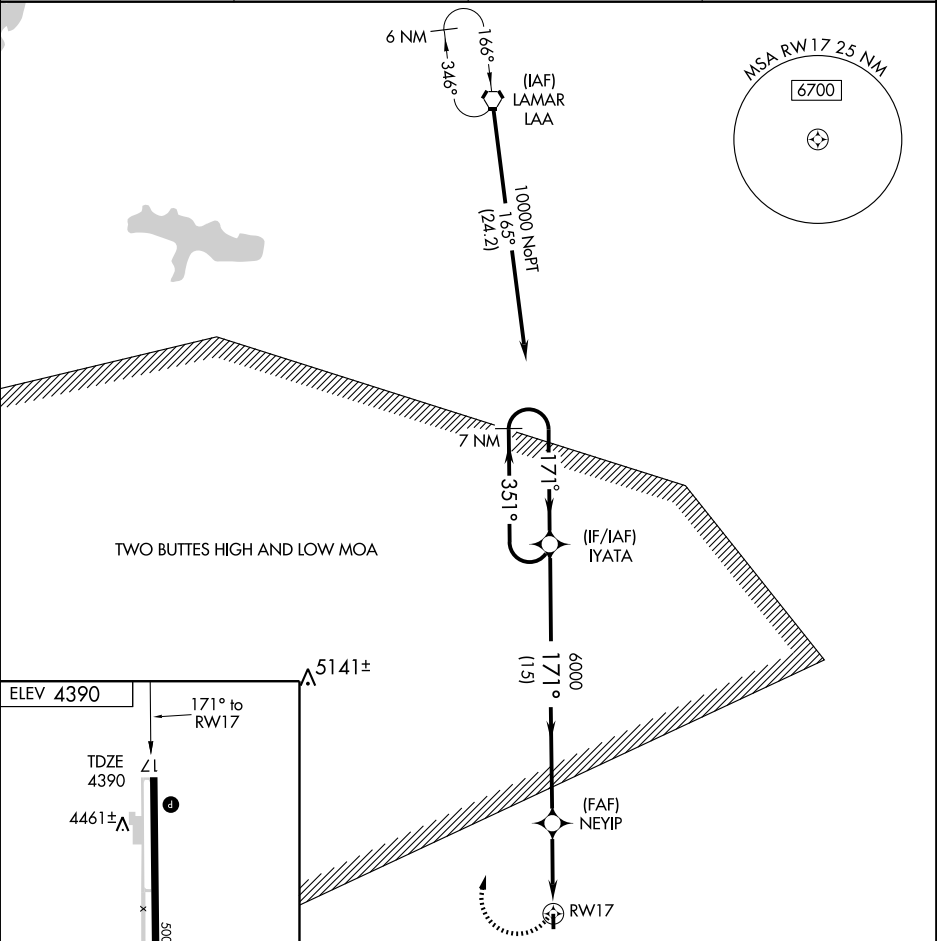
▼ Use Lamar altimeter setting, if not received use La Junta altimeter

▲ NA setting and increase all MDAs 20 feet. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 10000 direct

IYATA and hold, continue climb-in-hold to 10000.

AWOS-3 122.9	LAMAR MUNI ASOS 135.625	DENVER CENTER 133.4 377.175	CTAF 122.9 0
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7 NM Holding Pattern				10000	IYATA
10000 ← 351° / 171° →				171°	NEYIP
				6000	3.04° TCH 30
				15 NM	4.9 NM
CATEGORY	A	B	C	D	
LNAV MDA	4960-1	570 (600-1)			NA
CIRCLING	5020-1	630 (700-1)			NA

APP CRS 323°	Rwy Idg TDZE Apt Elev N/A N/A 6882	STEAMBOAT SPRINGS/BOB ADAMS FIELD (SBS)
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▼

NA

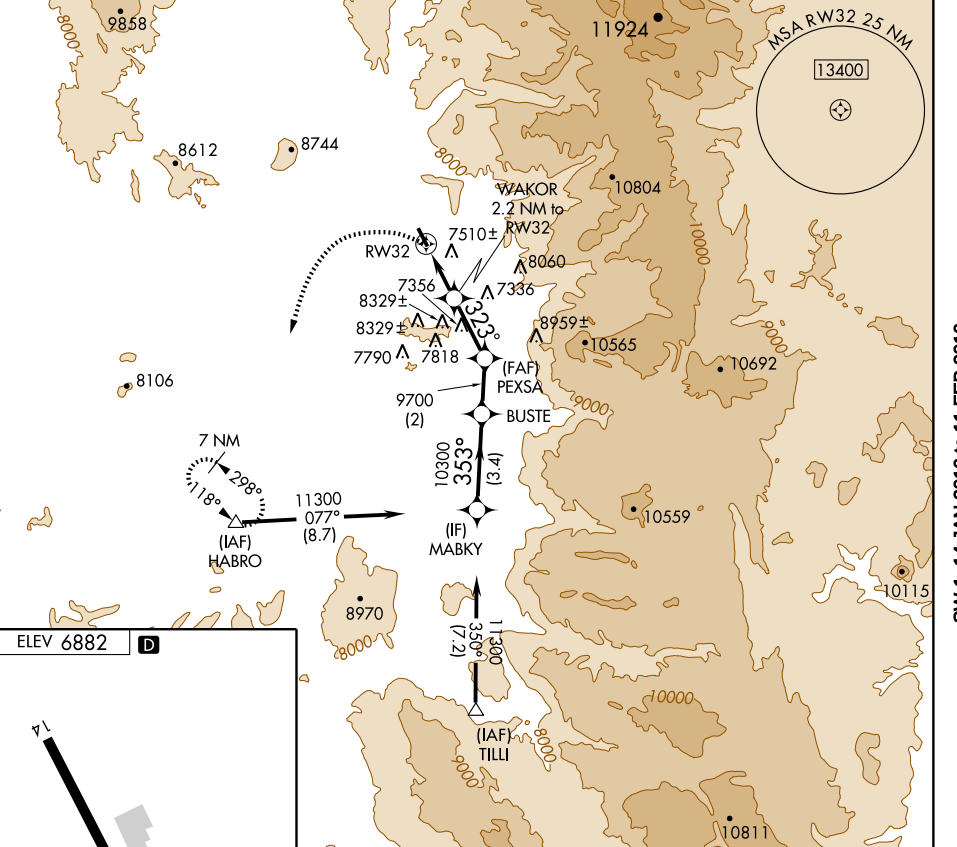
Circling NA northeast of Rwy 14-32.

DME/DME RNP- 0.3 NA.

When local altimeter setting not received, use Yampa Valley altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climbing left turn to 11300 direct HABRO and hold, continue climb-in-hold to 11300.

AWOS-3 118.325	DENVER CENTER 120.475 235.975	UNICOM 122.8 (CTAF)
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ELEV 6882

D

REIL Rwy 32

HIRL Rwy 14-32

4.53 X 100

323° to RW32

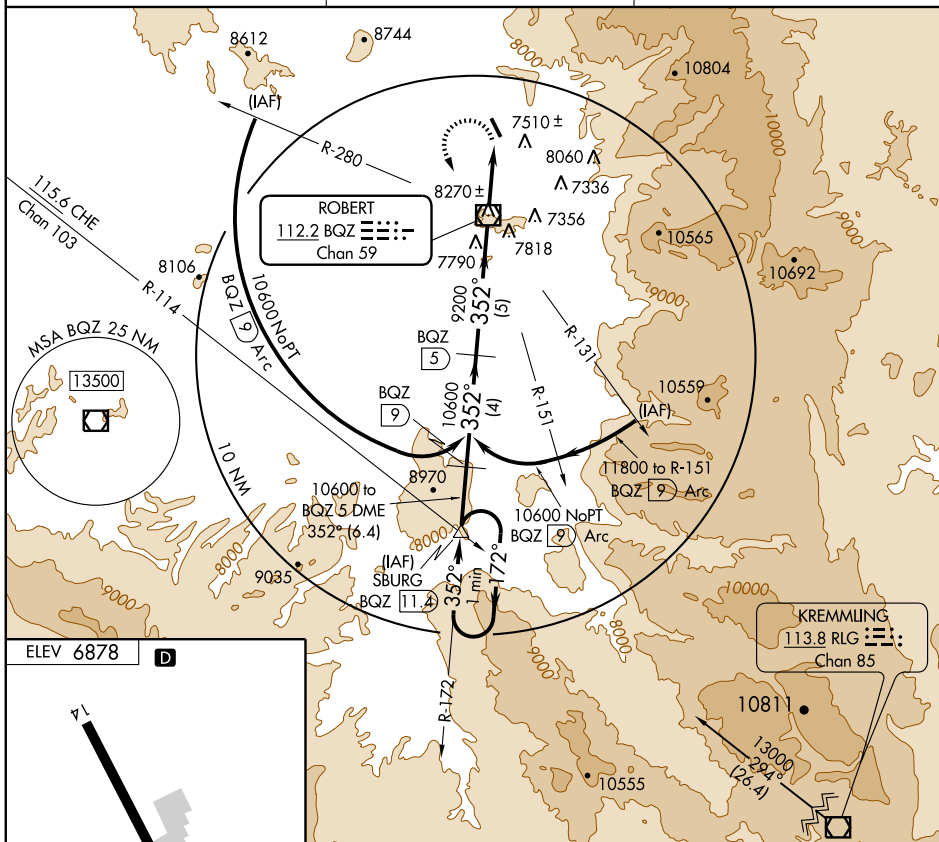
11300	HABRO	VGSI and descent angles not coincident.			MABKY
		WAKOR 2.2 NM to RW32	PEXSA	BUSTE	11300
		RW32	323°	353°	
		8740	9700	10300	
		2.2 NM	2.4 NM	2 NM	3.4 NM
CATEGORY	A	B	C	D	
CIRCLING	7980-1¼ 1098 (1100-1¼)	7980-1½ 1098 (1100-1½)	NA		

UNICOM
122.8 (CTAF) **L**

MISSED APPROACH: Climbing left turn to 12100 direct BQZ VOR/DME then via BQZ VOR/DME R-172 to SBURG Int and hold.

DENVER CENTER
120.475 235.975

122.8 (CTAF) L



SW-1: 14 JAN 2010 to 11 FEB 2010

D

A452 X 100

352° 2.9 NM
from FAF

RFII Rwy 32 HIRL Rwy 14-32

One Minute Holding Pattern

SBURG
BQZ 11.4

12100

BQZ

 112.2

BQZ
R-172
112.2

SBURG
△

12100

172°

B
[

VOR/DM

BQZ

6.4 NM

NM →

CATEGORY

A

B

1

CIRCLING

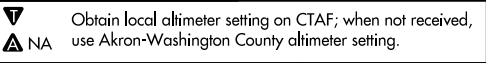
8140-1¼

8140-1½

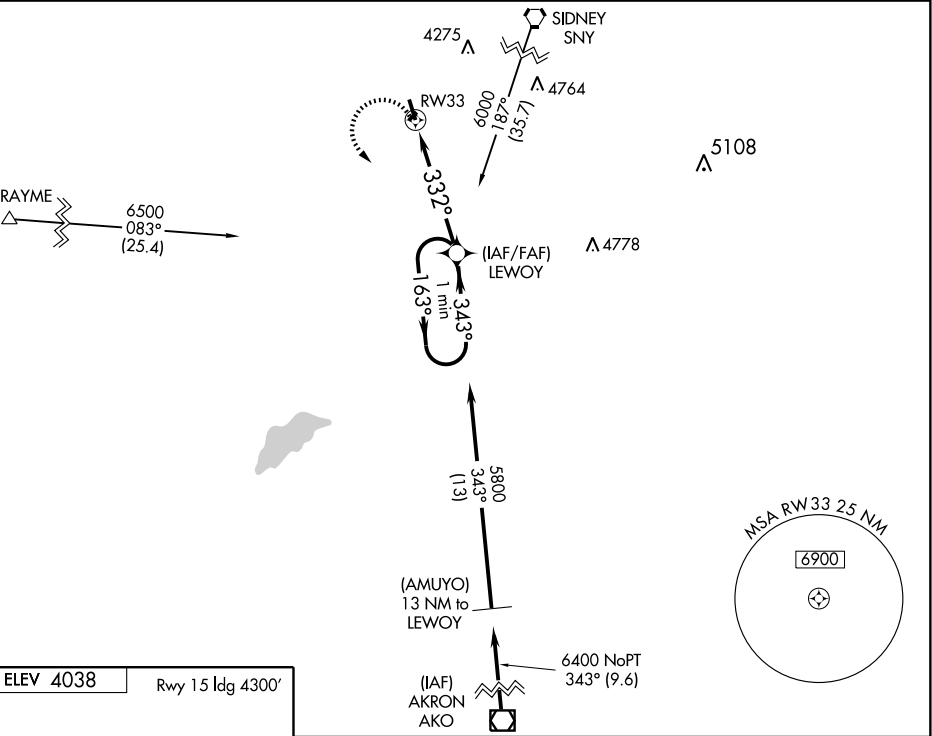
NA

GPS RWY 33
STERLING MUNI (STK)

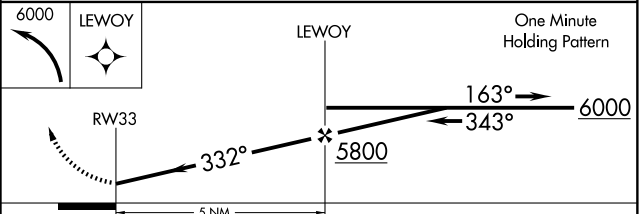
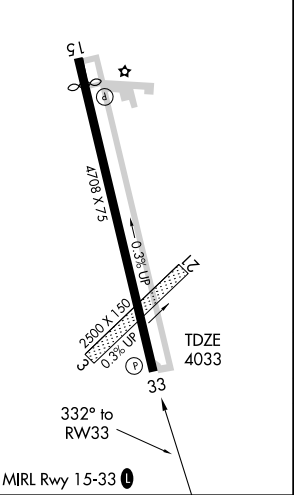
APP CRS	Rwy Idg	4708
332°	TDZE	4033
	Apt Elev	4038

	MISSED APPROACH: Climbing left turn to 6000 direct LEWOY WP and hold.
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AWOS-3 118.525	DENVER CENTER 118.475 225.4	UNICOM 122.8 (CTAF) 
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ELEV 4038	Rwy 15 Idg 4300'
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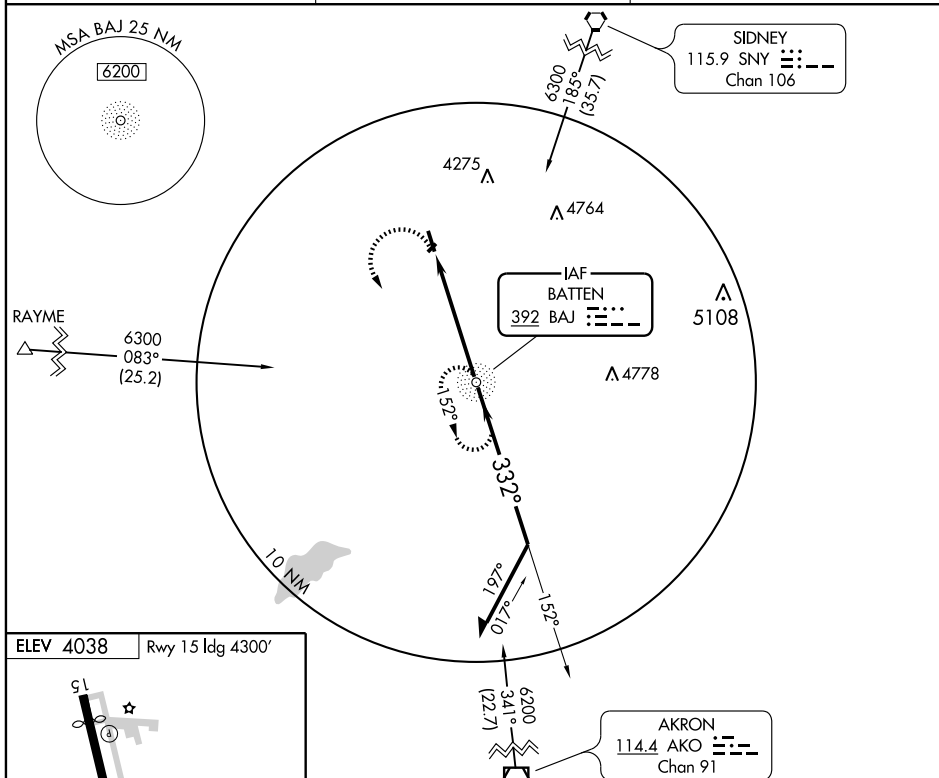


CATEGORY	A	B	C	D
S-33	4460-1 427 (500-1)		4460-1¼ 427 (500-1¼)	4460-1½ 427 (500-1½)
CIRCLING	4520-1 482 (500-1)	4540-1 502 (600-1)	4580-1½ 542 (600-1½)	4600-2 562 (600-2)
AKRON-WASHINGTON COUNTY ALTIMETER SETTING MINIMUMS				
S-33	4620-1 587 (600-1)		4620-1½ 587 (600-1½)	4620-1¾ 587 (600-1¾)
CIRCLING	4680-1 642 (700-1)	4700-1 662 (700-1)	4740-2 702 (800-2)	4760-2¼ 722 (800-2¼)

NDB RWY 33
STERLING MUNI (STK)

MISSED APPROACH: Climbing left turn to 6000 direct to BAJ NDB and hold.

UNICOM
122.8 (CTAF) **L**



SW-1. 14 JAN 2010 to 11 FEB 2010

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

APP CRS	Rwy Idg	6870
093°	TDZE	9061
	Apt Elev	9078

GPS RWY 9
TELLURIDE RGNL (TEX)

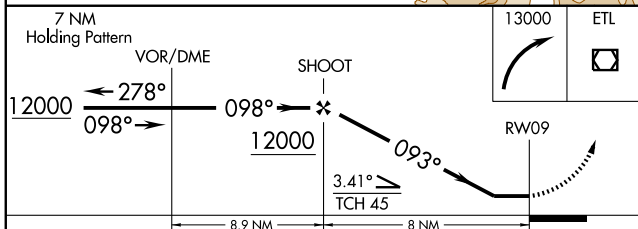
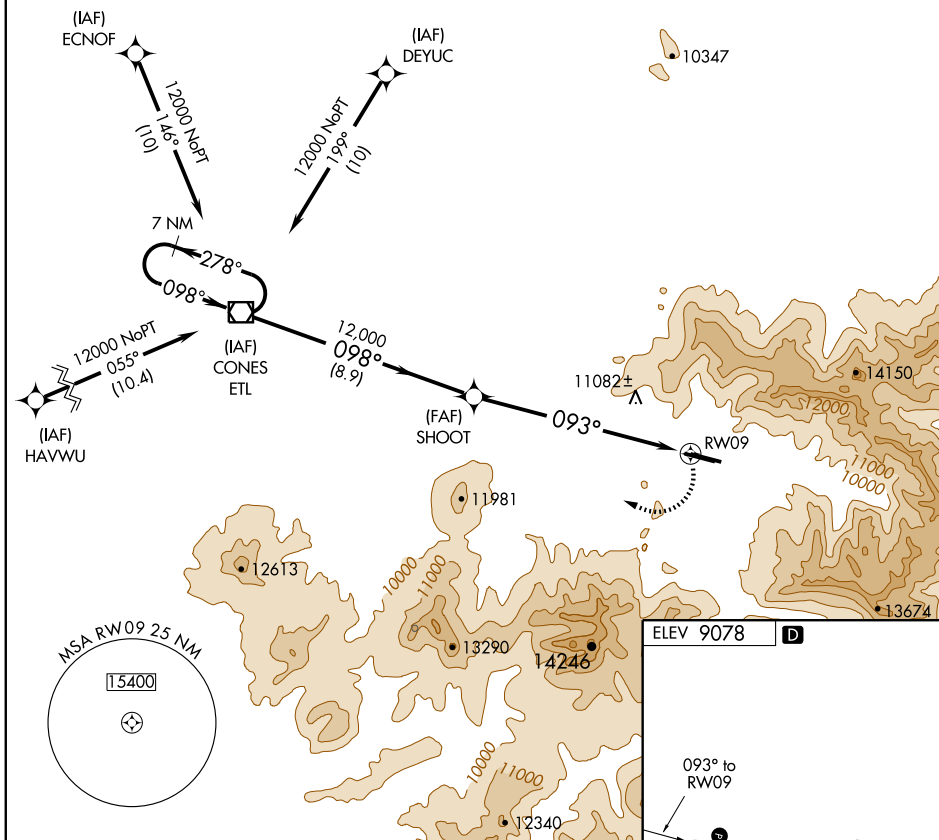
T	Procedure not authorized at night.
A NA	Circling not authorized north of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 13,000 direct ETL VOR/DME and hold.

AWOS-3
118.325

DENVER CENTER
125.35 354.05

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
S-9	11,600-2	2539 (2600-2)		NA
CIRCLING	11,600-2	2522 (2600-2)		NA

TDZE
9061

REIL Rwy 9 and 27 **L**
MIRL Rwy 9-27 **L**

LOC/DME I-TEX 109.3 Chan 30	APP CRS 090°	Rwy Idg TDZE Apt Elev 6870 9037 9070
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LOC/DME RWY 9

TELLURIDE RGNL (TEX)

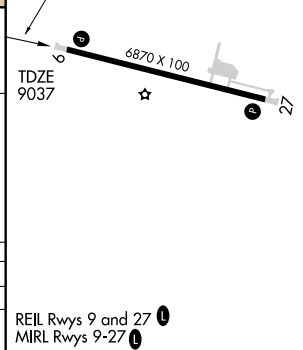
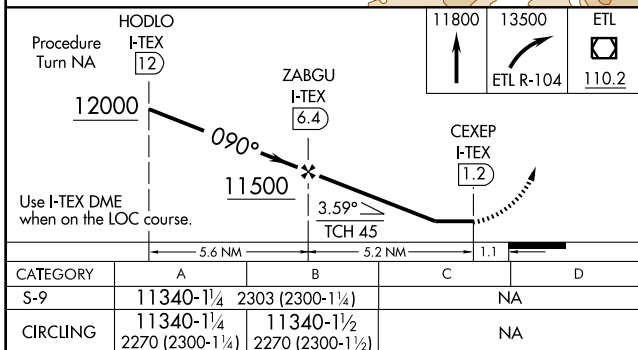
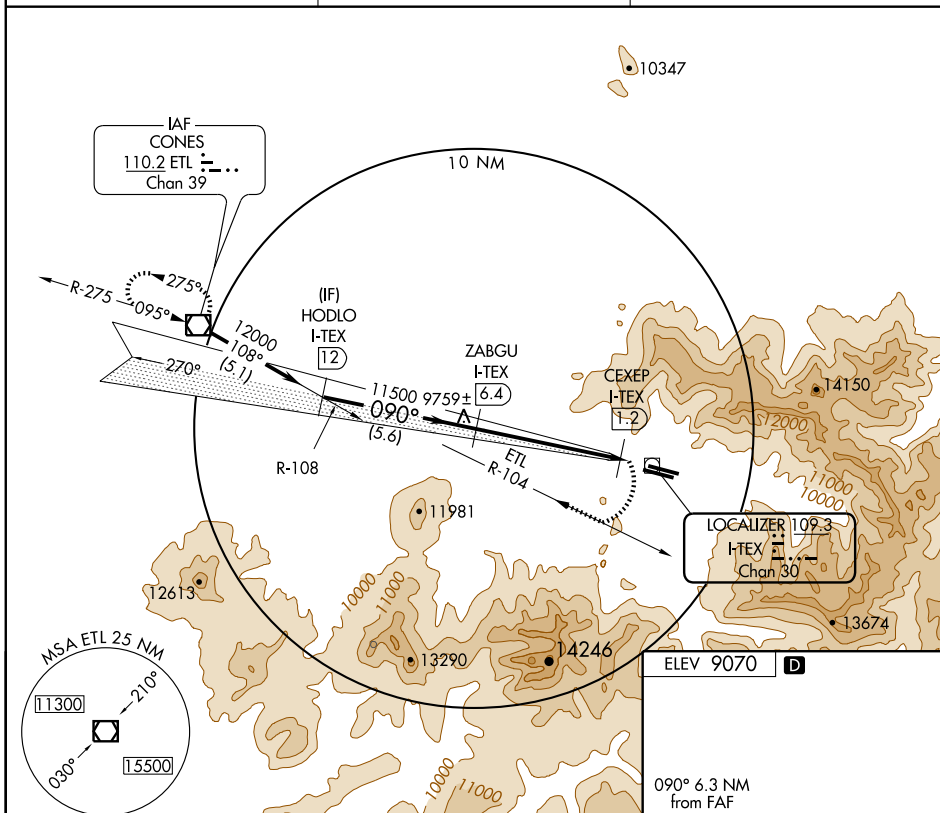
- ▼** Circling NA north of Rwy 9-27.
▲ Procedure NA at night.
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 11800 then climbing right turn to 13500 via ETL VOR/DME R-104 to ETL VOR/DME and hold.

AWOS-3
118.325

DENVER CENTER
125.35 354.05

UNICOM
123.0 (CTAF) 0

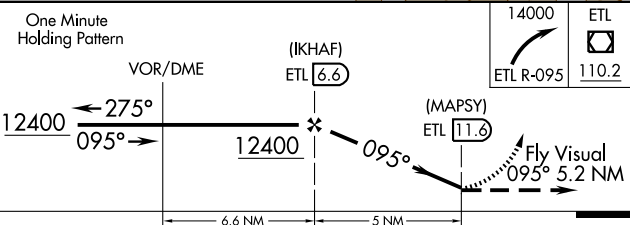
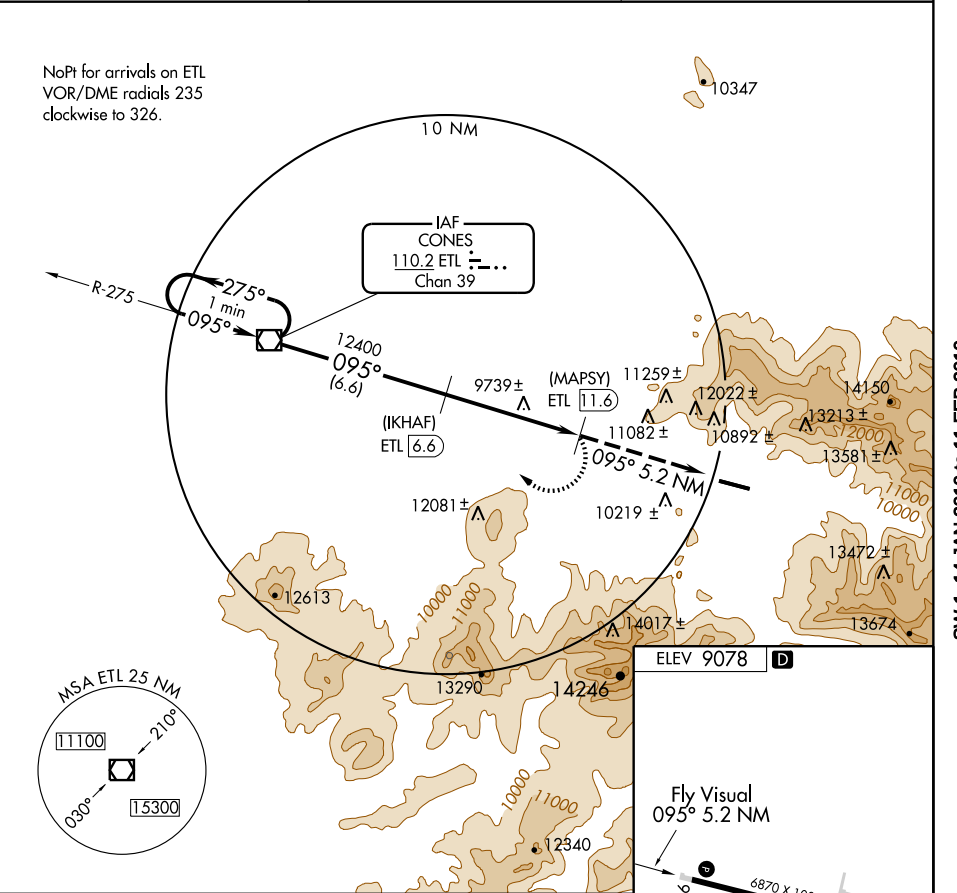


VOR/DME ETL 110.2 Chan 39	APP CRS 095°	Rwy Idg TDZE Apt Elev 9078	N/A N/A 9078
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Obtain local altimeter setting on CTAF; if not received procedure not authorized. Procedure not authorized at night. Circling not authorized north of runway 9-27.

MISSED APPROACH: Immediate climbing right turn to 14,000 via ETL R-095 to ETL VOR/DME and hold.

AWOS-3 118.325	DENVER CENTER 125.35 354.05	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
CIRCLING	12380-6	3294 (3300-6)	NA	NA

REIL Rwy 9 and 27
MIRL Rwy 9-27

SW-1. 14 JAN 2010 to 11 FEB 2010

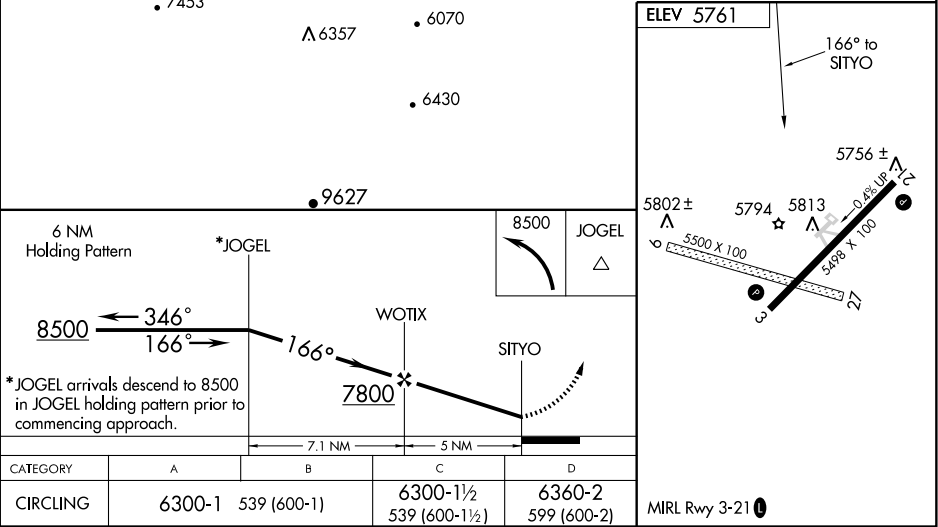
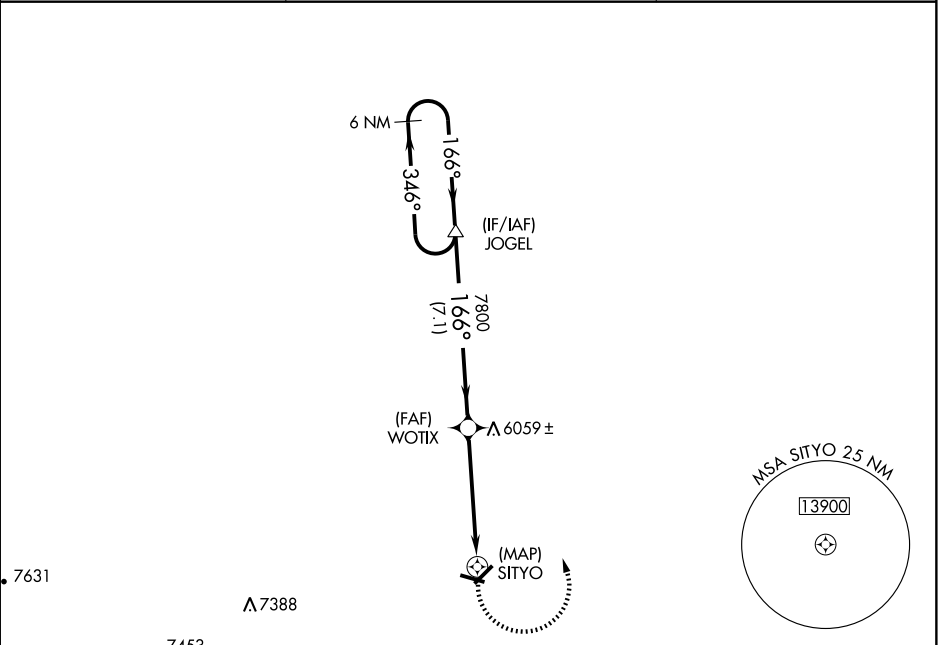
			2.4 NM				MIRL kwy 3-21				
CATEGORY	A	B	C	D	FAF to MAP 2.4 NM						
CIRCLING	6200-1 439 (500-1)	6220-1 459 (500-1)	6220-1½ 459 (500-1½)	6360-2 599 (600-2)	Knots	60	90	120	150	180	
					Min:Sec	2:24	1:36	1:12	0:58	0:48	

APP CRS 166°	Rwy Idg TDZE Apt Elev	N/A N/A 5761
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RNAV (GPS)-B
TRINIDAD/PERRY STOKES (TAD)

NA	DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 8500 direct JOGEL WP and hold.
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ASOS 119.025	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF) 0
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APP CRS 035°	Rwy Idg TDZE Apt Elev 5498 5756 5761
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RNAV (GPS) RWY 3

TRINIDAD/ PERRY STOKES (TAD)

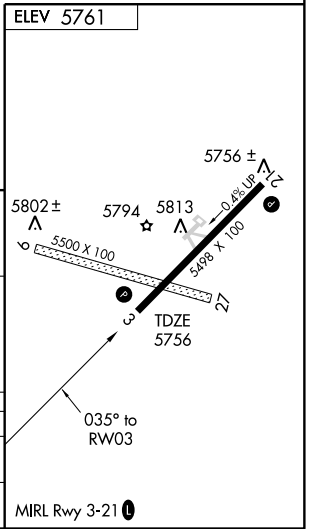
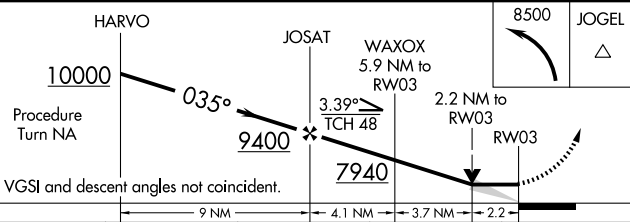
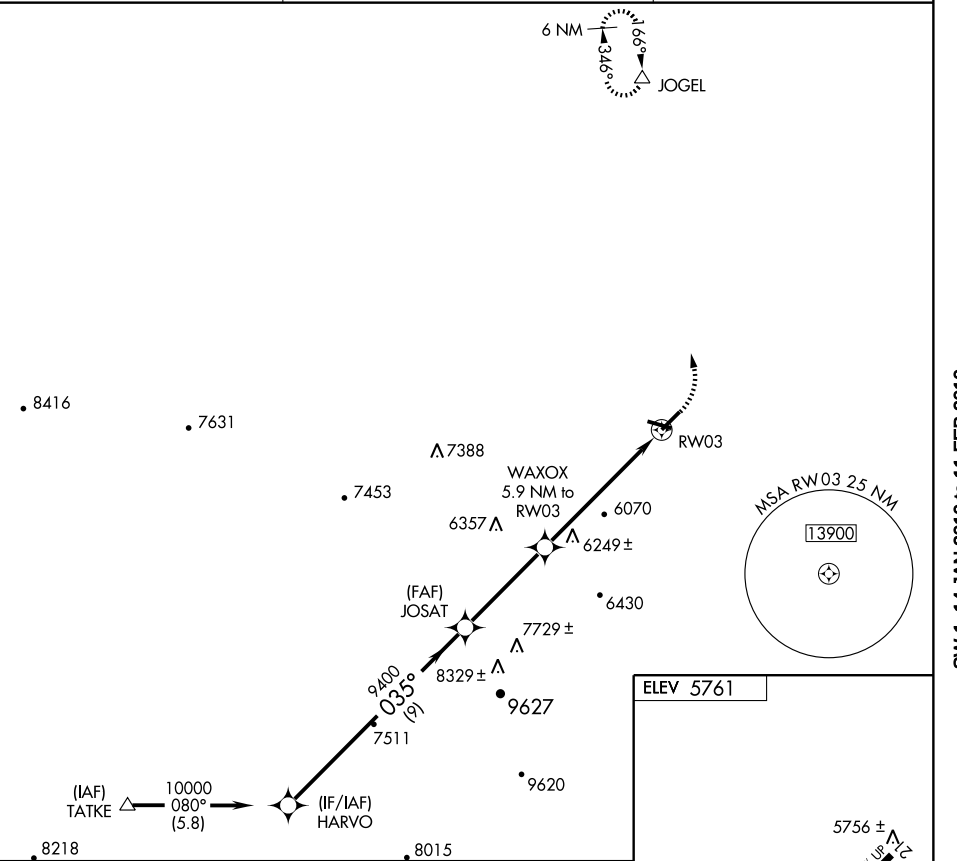
▼

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 8500 direct JOGEL WP and hold.

ASOS 119.025	DENVER CENTER 128.375 379.95	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
LNNAV MDA	6500-1 744 (800-1)	6500-1¼ 744 (800-1¼)	6500-2¼ 744 (800-2¼)	6500-2½ 744 (800-2½)
CIRCLING	6500-1 739 (800-1)	6500-1¼ 739 (800-1¼)	6500-2¼ 739 (800-2¼)	6500-2½ 739 (800-2½)

SW-1. 14 JAN 2010 to 11 FEB 2010

RNAV (GPS)-A

WALDEN-JACKSON COUNTY (33V)

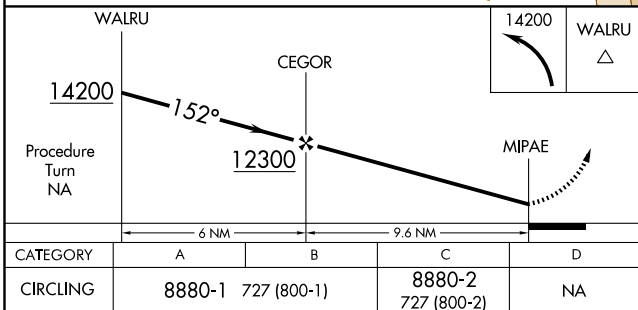
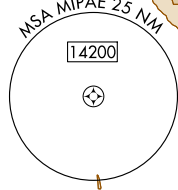
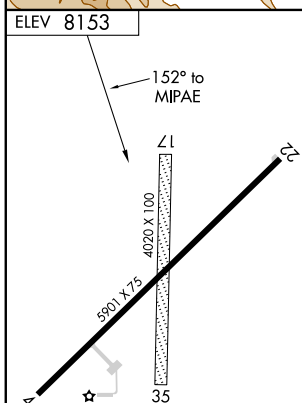
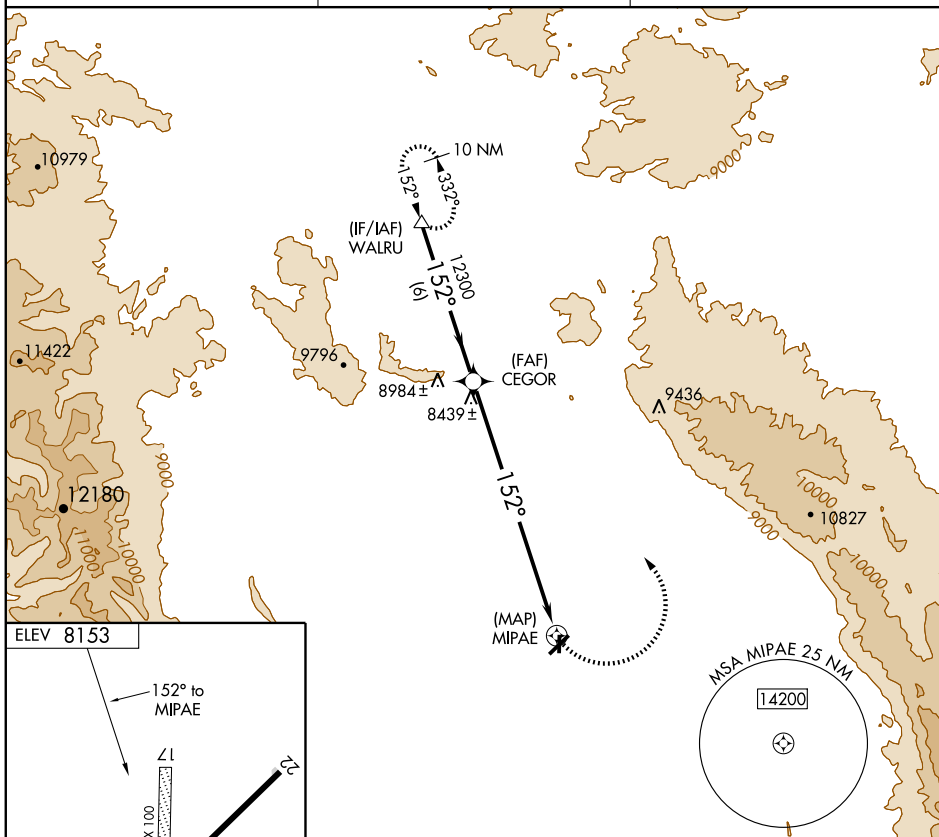
T When local altimeter setting not received, procedure NA.
A NA
 Circling NA southeast of Rwy 4-22.
 Circling to Rwy 17 and 35 NA.
 DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 14200 direct WALRU and hold, continue climb-in-hold to 14200.

AWOS-3
118.625

DENVER CENTER
126.5 371.85

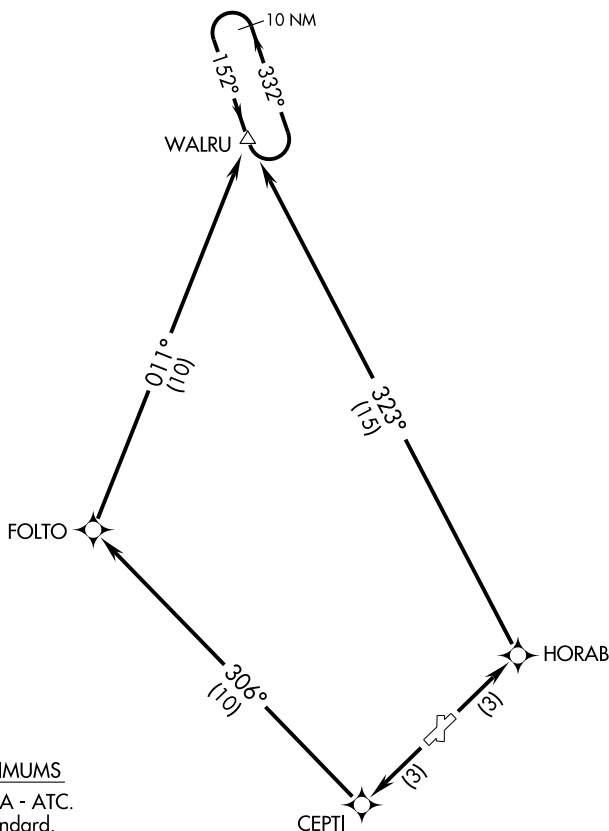
CTAF
122.9 **L**



WALRU ONE DEPARTURE (RNAV) (OBSTACLE)

WALDEN, COLORADO

AWOS-3
118.625
DENVER CENTER
126.5 371.85
CTAF 122.9



TAKE-OFF MINIMUMS

Rwy 17, 35: NA - ATC.

Rwy 4, 22: Standard.

NOTE: Rwy 22: Pole, 570' from DER, 339' right of centerline, 58' AGL/8174' MSL.

NOTE: GPS Required.

NOTE: RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb to 14200 direct HORAB, then via 323° track to WALRU, thence....

TAKE-OFF RUNWAY 22: Climb to 14200 direct CEPTI, then via 306° track to FOLTO, then via 011° track to WALRU, thence....

....continue climb in WALRU holding pattern until at or above MEA before proceeding on course.

APP CRS	Rwy Idg	5400
172°	TDZE	3677
	Apt Elev	3677

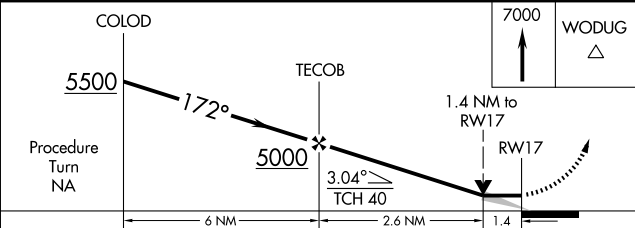
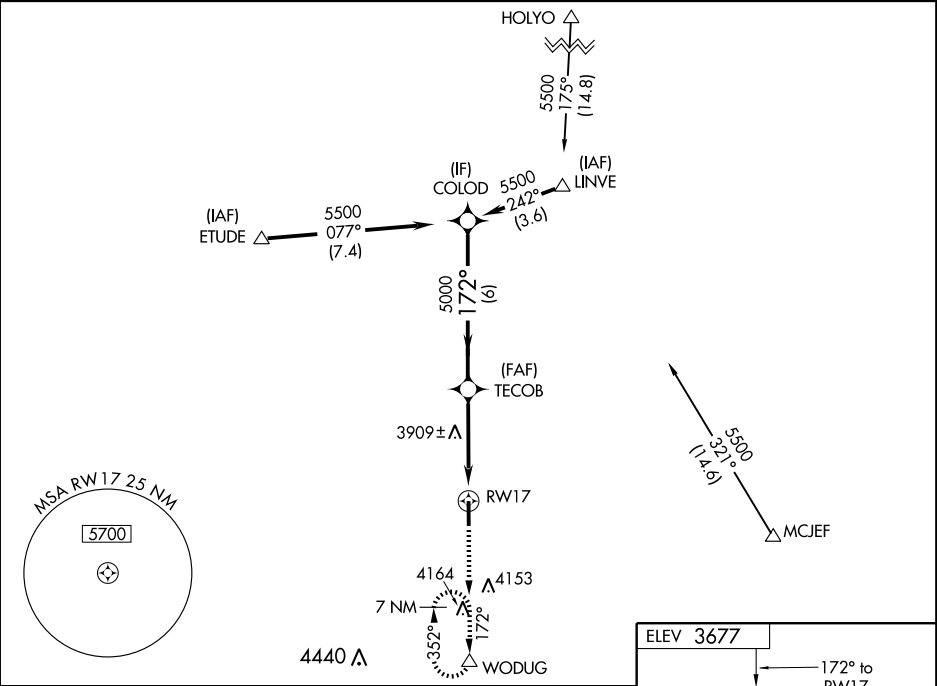
RNAV (GPS) RWY 17

WRAY MUNI (2V5)

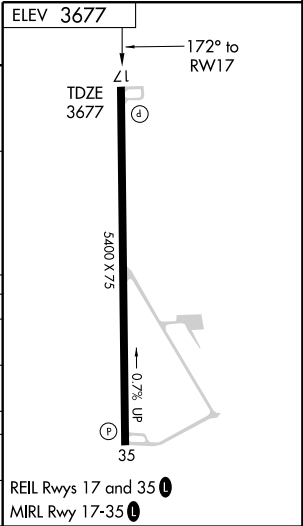
NA DME/DME RNP -0.3 NA.
Obtain local altimeter setting on CTAF, when not received use Imperial, NE altimeter setting.
VDP NA when using Imperial altimeter setting.

MISSED APPROACH: Climb to 7000 direct WODUG and hold, continue climb-in-hold to 7000.

DENVER CENTER 132.7 397.85	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
RNAV MDA	4160-1	483 (500-1)	4160-1¼ 483 (500-1¼)	4160-1½ 483 (500-1½)
CIRCLING	4160-1	483 (500-1)	4160-1½ 483 (500-1½)	4240-2 563 (600-2)
IMPERIAL ALTIMETER SETTING MINIMUMS				
RNAV MDA	4320-1	643 (700-1)	4320-1¾ 643 (700-1¾)	4320-2 643 (700-2)
CIRCLING	4320-1	643 (700-1)	4320-1¾ 643 (700-1¾)	4360-2¼ 683 (700-2¼)



▽

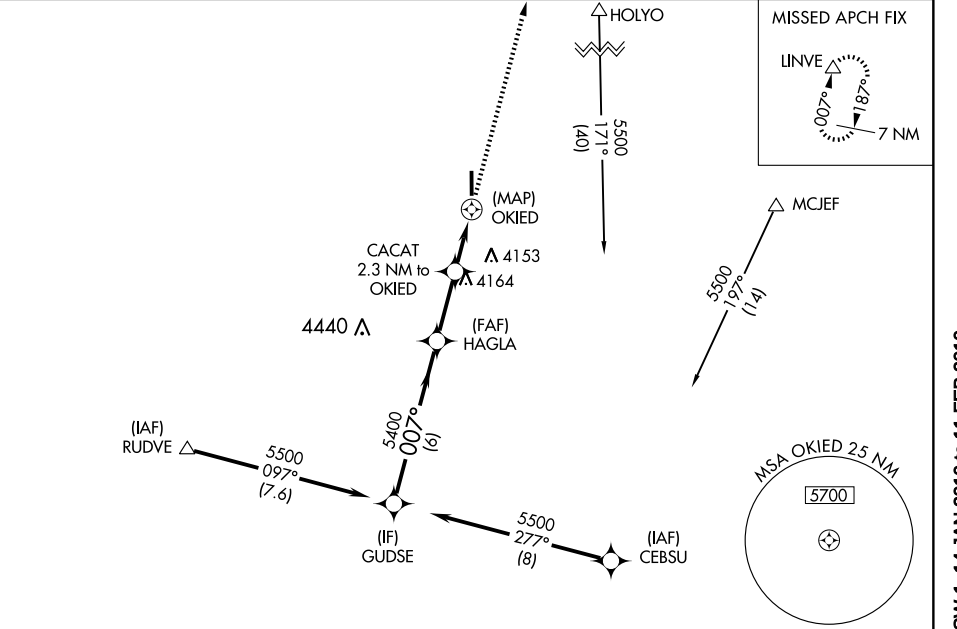
△NA

DME/DME RNP -0.3 NA. Obtain local altimeter setting on CTAF, when not received use Imperial, NE altimeter setting. VDP NA when using Imperial altimeter setting.

MISSED APPROACH: Climb to 6500 direct LINVE and hold.

DENVER CENTER
132.7 397.85

UNICOM
122.8 (CTAF) 0



ELEV 3677

6500

LINVE △

5400 x 75

TDZE 3653

35

0.7% UP

	GUDSE		HAGLA		CACAT 2.3 NM to OKIED		6500	LINVE △
	5500		5400		4560			
	007°		3.05° TCH 40		1.5 NM to OKIED			
Procedure Turn NA	6 NM		2.6 NM		0.8		1.5	0.5
CATEGORY	A		B		C		D	
LNAV MDA	4320-1 667 (700-1)		4320-1¾ 667 (700-1¾)		4320-2 667 (700-2)		4320-2 667 (700-2)	
CIRCLING	4320-1 643 (700-1)		4320-1¾ 643 (700-1¾)		4320-2 643 (700-2)		4320-2 643 (700-2)	
IMPERIAL ALTIMETER SETTING MINIMUMS								
LNAV MDA	4460-1 807 (800-1)	4460-1¼ 807 (800-1¼)	4460-2¼ 807 (800-2¼)	4460-2½ 807 (800-2½)				
CIRCLING	4460-1 783 (800-1)	4460-1¼ 783 (800-1¼)	4460-2¼ 783 (800-2¼)	4460-2½ 783 (800-2½)				

REIL Rwys 17 and 35 0

MIRL Rwy 17-35 0

INSTRUMENT APPROACH PROCEDURE CHARTS
 IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME **ALTERNATE MINIMUMS**
AKRON, CO
 COLORADO
 PLAINS RGNL **RNAV (GPS) Rwy 11**
 NA when local weather not available.

ALAMOSA, CO
 SAN LUIS VALLEY RGNL/
 BERGMAN FIELD **RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
 NA when local weather not available.

ALBUQUERQUE, NM
 ALBUQUERQUE INTL
 SUNPORT **VOR or TACAN Rwy 8**
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾; Category E, 900-3.

CLAYTON, NM
 CLAYTON MUNI AIRPARK **NDB Rwy 2¹**
NDB Rwy 20²
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
 NA when local weather not available.
 ¹Categories A, B, 900-2; Category C, 900-2½,
 Category D, 900-2¾.
 ²Category D, 800-2¾.

CLOVIS, NM
 CLOVIS MUNI **VOR Rwy 22,800-2½**

COLORADO SPRINGS, CO
 CITY OF COLORADO SPRINGS
 MUNI **ILS or LOC Rwy 17L¹**
ILS or LOC Rwy 35L²
ILS or LOC Rwy 35R²³
NDB Rwy 35L⁴
RNAV (GPS) Rwy 17R³⁵
RNAV (GPS) Rwy 35R³

- ¹ILS, 700-2.
 ²ILS, Category D, 700-2.
 ³NA when local weather not available.
 ⁴Category E, 1000-3.
 ⁵Category C, 800-2¾; Category D, 800-2½.

NAME **ALTERNATE MINIMUMS**
CORTEZ, CO
 CORTEZ MUNI **RNAV (GPS) Y Rwy 21¹**
RNAV (GPS) Z Rwy 21²
VOR Rwy 21¹

- ¹Category D, 900-3.
 ²Categories A, B, 1300-2; Categories C, D,
 1300-3.

CRAIG, CO
 CRAIG-MOFFAT **VOR/DME Rwy 7¹**
VOR Rwy 25²

- ¹1300-3.
 ²1700-3.

DEMING, NM
 DEMING MUNI **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 26
VOR Rwy 26

NA when local weather not available.

DENVER, CO
 CENTENNIAL **ILS or LOC Rwy 35R¹**
NDB Rwy 35R²
RNAV (GPS) Rwy 28³⁴
RNAV (GPS) Rwy 35R¹⁴

- ¹Categories A,B, 900-2; Category C, 900-2½,
 Category D, 900-2¾.
 ²Categories A,B, 1000-2; Categories C,D,
 1000-3.
 ³Category D, 800-2¾.
 ⁴NA when local weather not available.

DENVER, CO
 DENVER INTL **ILS or LOC Rwy 34L**
ILS, 700-2.

ROCKY MOUNTAIN
 METROPOLITAN **ILS or LOC Rwy 29R**
VOR/DME Rwy 29L/R
 NA when control tower closed.

NAME **ALTERNATE MINIMUMS**
DURANGO, CO
DURANGO-LA PLATA
COUNTY **VOR/DME Rwy 3**
NA when control zone not effective except for
operators with approved weather reporting
service.

EAGLE, CO
EAGLE COUNTY
RGNL **LDA/DME Rwy 25**
Categories A,B, 2100-2; Category C, 2100-3.
NA when control tower closed.
NA when local weather not available.

FARMINGTON, NM
FOUR
CORNERS RGNL **ILS or LOC Rwy 25¹²**
RNAV (GPS) Rwy 5³
RNAV (GPS) Rwy 7³
RNAV (GPS) Rwy 23⁴
¹NA when control tower closed.
²ILS, Categories B,C,D, 700-2.
³NA when local weather not available.
⁴Category D, 800-2½.

FORT COLLINS/LOVELAND, CO
FORT COLLINS-
LOVELAND MUNI **RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
VOR/DME-A
NA when local weather not available.

GALLUP, NM
GALLUP MUNI **RNAV (GPS) Rwy 6¹²**
RNAV (GPS) Rwy 24³
VOR Rwy 6¹
¹Category C, 800-2½; Category D, 900-3.
²NA when local weather not available.
³Category D, 900-3.

GRAND JUNCTION, CO
GRAND JUNCTION
RGNL **ILS or LOC Rwy 11¹**
LDA/DME Rwy 29²
RNAV (GPS) Rwy 11²
¹ILS, Category D, 700-2½. LOC, Category D,
800-2½.
²Category D, 800-2½.

GREELEY, CO
GREELEY-
WELD COUNTY **ILS or LOC Rwy 34**
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 27
RNAV (GPS) Rwy 34
VOR or TACAN-A
NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
GUNNISON, CO
GUNNISON-CRESTED
BUTTE RGNL **ILS or LOC Rwy 6¹**
RNAV (RNP) Rwy 6, 800-2½
VOR or GPS-A²³
¹ILS, LOC, Categories A, B, C, 1600-3.
²Categories A,B,C, 1700-3; Cat D, 2300-3.
³NA when local altimeter setting not available
except for operators with approved weather
reporting service.

HAYDEN, CO
YAMPA VALLEY ... **ILS or LOC/DME Y Rwy 10¹**
RNAV (GPS) Y Rwy 10¹²
VOR/DME-B²³
¹Categories A, B, 1200-2; Categories C, D,
1200-3.
²NA when local weather not available.
³Categories A, B, 1300-2; Categories C, D,
1300-3.

HOBBS, NM
LEA COUNTY RGNL **ILS or LOC Rwy 3¹**
LOC/DME BC Rwy 21²
RNAV (GPS) Rwy 3³
RNAV (GPS) Rwy 21²
RNAV (GPS) Rwy 30²
VOR/DME or TACAN Rwy 21²
VOR or TACAN Rwy 3²
¹NA when control tower closed.
²NA when control tower closed, except
standard for operators with approved weather
reporting service.
³NA when local weather not available.

LA JUNTA, CO
LA JUNTA MUNI **RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 26
NA when local weather not available.

LAMAR, CO
LAMAR MUNI **RNAV (GPS) Rwy 18¹**
RNAV (GPS) Rwy 36²
VOR Rwy 18³
¹NA when local weather not available.
²Category D, 800-2½.
³Category C, 900-2½, Category D, 900-2½.

LAS VEGAS, NM
LAS VEGAS MUNI **RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
RNAV (GPS) Rwy 32
VOR Rwy 2
VOR Rwy 20
NA when local weather not available.

NAME ALTERNATE MINIMUMS

MEEKER, CO

MEEKER **RNAV (GPS) Rwy 3**
NA when local weather not available.
Categories A, B, 1500-2; Category C, 1500-3.

MONTROSE, CO

MONTROSE
RGNL **ILS or LOC/DME Rwy 17**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 35
RNAV (GPS) Y Rwy 17
RNAV (GPS) Z Rwy 17
VOR/DME Rwy 13
Category C, 1000-2¾; Category D, 1000-3.

PAGOSA SPRINGS, CO

STEVENS FIELD **RNAV (GPS)-A**
NA when local weather not available.

PORTALES, NM

PORTALES MUNI **RNAV (GPS) Rwy 1**
Category D, 900-3.

PUEBLO, CO

PUEBLO MEMORIAL **ILS or LOC Rwy 8L¹³**
ILS or LOC Rwy 26R²³
RNAV (GPS) Rwy 8L⁴
RNAV (GPS) Rwy 26R⁴
VOR or TACAN Rwy 26R³

¹ILS, Categories A,B,C,D, 700-2;
Category E, 1000-3. LOC, Category E, 1000-3.

²ILS, 700-2.

³NA when control tower closed.

⁴NA when local weather not available.

RATON, NM

RATON MUNICIPAL/
CREWS FIELD **VOR/DME Rwy 2**
Categories A,B, 1400-2; Categories C,D,
1400-3.

NAME ALTERNATE MINIMUMS

RIFLE, CO

GARFIELD COUNTY
RGNL **LOC/DME-A¹²³**
ILS Rwy 26²³⁴
RNAV (GPS) Y Rwy 8²⁵
RNAV (GPS) W Rwy 26²⁷
RNAV (GPS) X Rwy 26²⁸
RNAV (RNP) Y Rwy 26²⁶
RNAV (RNP) Z Rwy 8²⁹
RNAV (RNP) Z Rwy 26²
VOR/DME-C⁵

¹Categories A,B, 2400-2; Category C, 2400-3.

²NA when local weather not available.

³Not authorized 0200-1300Z.

⁴ILS, Categories A,B,C, 1300-4.

⁵Categories A,B, 1900-2; Category C, 1900-3.

⁶Categories A,B,C, 800-2¼.

⁷Categories A,B, 1700-2; Category C, 1700-3.

⁸Categories A,B,C, 900-2½.

⁹Categories A,B,C, 900-3.

ROSWELL, NM

ROSWELL
INTL AIR CENTER **ILS Rwy 21¹**
LOC BC Rwy 3¹
RNAV (GPS) Rwy 3²
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 21²
RNAV (GPS) Rwy 35²

¹NA when control tower closed.

²NA when local weather not available.

SANTA FE, NM

SANTA FE MUNI **ILS or LOC Rwy 2¹²**
VOR/DME-A³⁴
VOR Rwy 33³⁴

¹NA when control tower closed.

²ILS, Category D, 700-2¾. LOC, Category D,
800-2¾.

³Category D, 800-2¾.

⁴NA when control tower closed except for
operators with approved weather reporting
service.



E4



09351

NAME	ALTERNATE MINIMUMS
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SILVER CITY, NM

GRANT COUNTY VOR-A
VOR/DME-B

NA when Deming FSS closed.

TAOS, NM

TAOS REGIONAL VOR/DME-B

Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

TELLURIDE, CO

TELLURIDE RGNL LOC/DME Rwy 9
Categories A, B, 2300-2.

TRUTH OR CONSEQUENCES, NM

TRUTH OR CONSEQUENCES

MUNI VOR-A
Category D, 800-2¼.

14 JAN 2010 to 11 FEB 2010

RADAR INSTRUMENT APPROACH MINIMUMS

ALBUQUERQUE, NM

Amdt. 20C, MAY 17, 2002 (FAA)

ELEV 5355

ALBUQUERQUE INTL SUNPORT

RADAR - 123.9 354.1 ▽

			DA/ HAT/ HATH/				DA/ HAT/ HATH/				
	RWY	GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS	
ASR	8		ABC	5700/24	384	(400-½)	DE	5700/50	384	(400-1)	
	35		ABC	5700-1	386	(400-1)	DE	5700-1¼	386	(400-1¼)	
	3		ABC	5700-1	388	(400-1)	DE	5700-1¼	388	(400-1¼)	
	17		AB	5740-1	419	(400-1)	CD	5740-1¼	419	(400-1¼)	
			E	5740-1½	419	(400-1½)					
CIRCLING			AB	5840-1	488	(500-1)	C	5900-1½	545	(600-1½)	
			D	5940-2	585	(600-2)	E	6040-2½	685	(700-1½)	

Circling Category E not authorized E of Rwy 17/35. CAUTION: Steeply rising terrain in NE quadrant exceeding 8000' at 8 NM from airport and in SE quadrant exceeding 6300' at 4.6 NM from airport. Categories D and E S-8 visibility increased to RVR 6000 for inoperative MALSR.

CANNON AFB (KCVS), NM (Clovis) (07270 USAF)

ELEV 4295

RADAR¹- (E) 127.75x 295.7x 363.95x ▽

				DH/ HATH/ HAA		
	RWY	GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS
ASR ²	31 ³		AB	4720-½	450	(500-½)
			C	4720-¾	450	(500-¾)
			DE	4720-1	450	(500-1)
	4 ⁴		ABCD	4700/40	416	(500-¾)
			E	4700/50	416	(500-1)
			AB	4820/24	525	(600-½)
	22 ⁵		C	4820/50	525	(600-1)
			DE	4820/60	525	(600-1¼)
			AB	4820-¾	526	(600-¾)
			C	4820-1	526	(600-1)
			DE	4820-1¼	526	(600-1¼)
			AB	4840-1	545	(600-1)
CIR	All Rwy		C	4840-1½	545	(600-1½)
			D	4860-2	565	(600-2)
			E	5020-2½	725	(800-2½)

¹SIF gnd ck avbl fr RAPCON on 358.3 1400-0600Z++. ²No-NOTAM MP 0700-1100Z++ Mon-Wed, 0600-1300Z++ Thu,Fri. ³When ALS inop, increase CAT AB vis to 1 mile, CAT C vis to 1¼ miles, CAT DE vis to 1½ miles. ⁴When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT CD RVR to 60, vis to 1¼ miles, CAT E to vis 1½ miles. ⁵When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to 1½, CAT DE vis to 1¾ miles. ⁶When ALS inop, increase CAT AB vis to 1 mile, CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.

RADAR INSTRUMENT APPROACH MINIMUMS

ROSWELL, NM

Orig, MAY 13, 2004 (FAA)

ELEV **3669**

ROSWELL INTL AIR CENTER

RADAR¹ - E 119.6 239.0  NA when control tower closed.

	RWY	GS/TCH/RP	CAT	DA/	HAT/	CEIL-VIS	CAT	DA/	HAT/	CEIL-VIS
				MDA-VIS	HAA			MDA-VIS	HAA	
ASR	3		ABC	4020-1	355	(400-1)	DE	4020-1¼	355	(400-1¼)
	17		ABC	4020-1	356	(400-1)	DE	4020-1¼	356	(400-1¼)
	35		ABC	4060-1	391	(400-1)	D	4060-1¼	391	(400-1¼)
			E	4060-1½	391	(400-1½)				
	21		AB	4040-½	408	(400-½)	C	4040-¾	408	(400-¾)
CIRCLING			DE	4040-1	408	(400-1)				
			AB	4140-1	471	(500-1)	C	4140-1½	471	(500-1½)
			D	4220-2	551	(600-2)	E	4380-2½	711	(800-2½)

¹Opr 1300-0400Z++. Procedure NA when control tower closed.

² When ALS inoperative, increase Category D visibility to 1¼, and Category E visibility to 1½.



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AKRON, CO

COLORADO PLAINS RGNL (AKO)

ORIG 09127 (FAA)

NOTE: **Rwy 11**, rod on obstruction light on anemometer 314' from DER, 525' left of centerline, 26' AGL/4695' MSL. Lights on hangers 412' from DER, 301' left of centerline, 18' AGL/4687' MSL. **Rwy 29**, vehicles on roadway beginning 971' from DER, 315' left of centerline, 15' AGL/4741' MSL. Trees beginning 1651' from DER, 528' left of centerline, up to 100' AGL/4839' MSL.

ALAMOGORDO, NM

ALAMOGORDO-WHITE SANDS RGNL

TAKE-OFF MINIMUMS: **Rwy 16, 21, 34**, NA

DEPARTURE PROCEDURE: Use CORONA ONE Departure.

ALAMOS, CO

SAN LUIS VALLEY RGNL-BERGMAN FIELD

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA.

DEPARTURE PROCEDURE: **Rwy 2**, turn right. **Rwy 20**, turn left. Climb direct ALS VORTAC, continue climb in ALS VORTAC holding pattern (SE, right turns, 301° inbound) to depart ALS VORTAC at airway MEA/MCA, all others climb to 16000.

NAME TAKE-OFF MINIMUMS

ALBUQUERQUE, NM

ALBUQUERQUE INTL SUNPORT (ABQ)

AMDT 5 08157

TAKE-OFF MINIMUMS: **Rwy 3**, 200 - 1 or std. w/ min. climb of 240' per NM to 5600, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to departure end of rwy, **Rwy 8**, std. w/ min. climb of 515' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 3, 30, 35**, climbing left turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. **Rwy 8**, climbing right turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. (do not exceed 250 kts until ABQ VORTAC). **Rwys 12, 17, 21**, climbing right turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. **Rwy 26**, climb direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold west, left turn, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ALBUQUERQUE INTL SUNPORT (CON'T)

NOTE: **Rwy 3**, light 549' from departure end of runway, 575' right of centerline, 29' AGL/5344' MSL. Light 2109' from departure end of runway, 1001' left of centerline, 67' AGL/5382' MSL. Multiple tanks beginning 4962' from departure end of runway, 1708' left of centerline, up to 154' AGL/5469' MSL. **Rwy 12**, electrical equipment 36' from departure end of runway, 214' right of centerline, 20' AGL/5315' MSL. **Rwy 17**, light 114' from departure end of runway, 360' right of centerline, 19' AGL/5328' MSL. Pole 248' from departure end of runway, 423' left of centerline, 32' AGL/5321' MSL. **Rwy 21**, terrain beginning 23' from departure end of runway, 277' left to 291' right of centerline, up to 5319' MSL. **Rwy 30**, tower 1057' from departure end of runway, 743' right of centerline, 93' AGL/5393' MSL. **Rwy 35**, light on fence 106' from departure end of runway, 11' right of centerline, 11' AGL/5326' MSL. Sign 165' from departure end of runway, 140' left of centerline, 13' AGL/5328' MSL. Vehicles on road 215' from departure end of runway, from left to right of centerline, up to 15' AGL/5335' MSL. Multiple trees beginning 314' from departure end of runway, 53' left of centerline, up to 50' AGL/5367' MSL. Multiple trees beginning 329' from departure end of runway, 172' right of centerline, up to 50' AGL/5362' MSL. Tower 3208' from departure end of runway, 860' right of centerline, 100' AGL/5410' MSL.

DOUBLE EAGLE II (AEG)

AMDT 1 08045 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 035° to 11700 before turning right, all others turn left on course. **Rwy 17**, climb heading 169° to 9400 before turning left, all others turn right on course. **Rwy 22**, climb heading 215° to 9100 before turning left, all others turn right on course. **Rwy 35**, climb heading 349° to 11000 before turning right, all others turn left on course.

NOTE: **Rwy 17**, antenna 64' from departure end of runway, 395' left of centerline, 8' AGL/5807' MSL. Tree 3482' from departure end of runway, 1409' right of centerline, 100' AGL/5919' MSL. **Rwy 35**, antenna 53' from departure end of runway, 405' right of centerline, 9' AGL/5808' MSL.

ANGEL FIRE, NM

ANGEL FIRE (AXX)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 17**, use ANEKE
RNAV DEPARTURE.

ASPEN, CO

ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)

AMDT 8 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, NA-terrain.
DEPARTURE PROCEDURE: **Rwy 33**, use SARDD
DEPARTURE.

BELEN, NM

ALEXANDER MUNI

TAKE-OFF MINIMUMS: **Rwys 3, 21**, std. with min. climb of 326' per NM to 11700, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 21**, for climb in visual conditions: cross Alexander Municipal Airport at or above 7500.

BUCKLEY AFB (KBKF)

AURORA, CO

Rwy 14, 700-1*

* Or standard with minimum climb of 240'/NM to 5700.

TAKE-OFF OBSTACLES: Rwy 14: Rising Terrain 5685' to 5700' MSL 975'-1355' from departure end of rwy, 210'-270' right of centerline.

BUENA VISTA, CO

CENTRAL COLORADO RGNL

TAKE-OFF MINIMUMS: **Rwy 15**, std. with a min. climb of 400' per NM to 8200 then 340' per NM to 15500.

Rwy 33, NA-due to terrain.

DEPARTURE PROCEDURE: **Rwy 15**, use PUEBLO RNAV DEPARTURE. **Rwy 33**, NA-due to terrain.

NOTE: **Rwy 15**, tree 4468' from departure end of runway, 659' right of centerline, 60' AGL/8159' MSL.

BUTTS AAF (KFCS)

FORT CARSON, CO

.....Rwy 31, 400-1*

* Or standard with a minimum climb of 210'/NM to 6100'.

Rwy 13 climbing left turn heading 080° within 1 mile.

Rwy 31 climbing right turn heading 80° within 1 mile.

All aircraft continue climb via hdg 080° until joining V-81.

CANNON AFB (KCVS),

CLOVIS, NM.(07354 USAF)

DIVERSE DEPARTURES AUTHORIZED ALL RWYS

TAKE-OFF OBSTACLES: **Rwy 04**: Terrain 4304'

MSL, 0' from DER, 25' to 222' right of centerline.

Terrain 4305' MSL, 16' to 268' from DER, 500' left of

centerline. Terrain 4329' MSL, 1124' from DER, 800' left of centerline.

Rwy 13: Terrain 4284' MSL, 0' to 409' from DER, 41' to 500' left of centerline. Terrain 4280' MSL, 66' to 528' from DER, 500' to 585' right of centerline.

Rwy 22: Terrain 4295' MSL, 0' to 538' from DER, 61' to 636' left of centerline. Terrain 4281' MSL, 66' from DER, 258' right of centerline.

Rwy 31: Terrain 4294' MSL, 0' from DER, 500' left of centerline. Terrain 4304' MSL, 370' from DER, 588' left of centerline. Power Pole 25' AGL/4357' MSL, 2517' from DER, 98' left of centerline. Terrain 4314' MSL, 197' to 317' from DER, 500' to 585' right of centerline.

CANON CITY, CO**FREMONT COUNTY**

TAKE-OFF MINIMUMS: **Rwy 29**, 4600-2 or std. with a min. climb of 450' per NM to 10400.

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading. **Rwy 29**, turn left heading 115°.

All aircraft intercept and climb via PUB VORTAC R-262 (V244) PUB VORTAC before proceeding on course.

CLAYTON, NM**CLAYTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 30**, 1300-1 or std. with a min. climb of 244' per NM until 6700.

COLORADO SPRINGS, CO**CITY OF COLORADO SPRINGS MUNI**

TAKE-OFF MINIMUMS: **Rwy 30**, 600-2 or std. with a min. climb of 220' per NM to 6900.

DEPARTURE PROCEDURE: **Rwys 12, 17L, 17R**, turn left. **Rwys 30, 35L, 35R**, turn right. **All aircraft** climb direct BRK VORTAC. Aircraft departing on BRK R-325 CW R-153 climb on course. Aircraft departing BRK R-154 CW R-324 climb in BRK holding pattern (NW, left turns, 154° inbound) to cross BRK VORTAC at or above 14000.

CORTEZ, CO**CORTEZ MUNI**

TAKE-OFF MINIMUMS: **Rwy 3**, 300-2 or std. w/ min. climb of 220' per NM to 6300. **Rwy 21**, 1000-2.

DEPARTURE PROCEDURE: **Rwy 3**, left turn.

Rwy 21, right turn, climbing direct to CEZ VOR.

Aircraft northwestbound V391 continue climb on course to 9800 or above; southeastbound V391, V211, and direct HBU VOR/DME, continue climb on R-295 to 8000, left climbing turn to recross CEZ VOR at or above 9400.

Aircraft enroute HBU VOR/DME and able to climb 230' per NM to 15000 may climb on course (CEZ R-034) to 16300 or above.

NOTE: **Rwy 3**, tree 1.7 NM from departure end of runway, 2964' left of centerline, 6096 AGL/6196 MSL.

CRAIG, CO**CRAIG-MOFFAT**

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 800-1¼, or std. with a min. climb of 400' per NM to 7000.

DEPARTURE PROCEDURE: **Rwys 7, 25**, climb direct CHE VOR/DME and hold (W, right turns, 108° inbound) climbing to: aircraft departing CHE R-213 CW R-296 depart on course; all others continue climbing to cross CHE at or above; CHE R-076 CW R-114 10500, R-115 CW R-212 11300, and R-297 CW R-076 11300.

DEMING, NM**DEMING MUNI**

TAKE-OFF MINIMUMS: **Rwy 4**, NA.

DEPARTURE PROCEDURE: WESTBOUND: **Rwy 8**, climbing left turn heading 214°; **Rwy 22**, climbing right turn heading 302°; **Rwy 26**, climbing right turn heading 275°; intercept DMN VORTAC R-258 then via V94 on course. EASTBOUND: **Rwy 8**, climb direct DMN VORTAC; **Rwys 22, 26**, climbing right turn direct DMN VORTAC; then via V94 on course. NORTHBOUND: **Rwy 8**, climb direct DMN VORTAC; **Rwys 22, 26**, climbing right turn direct DMN VORTAC; then via V110 on course.

DENVER, CO

CENTENNIAL (APA)

AMDT 4 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17L**, std. w/ min. climb of 253' per NM to 6900. **Rwy 17R**, std. w/ min. climb of 370' per NM to 6900.

DEPARTURE PROCEDURE: **Rwy 10**, when departing on course between 159° CCW to 330° from departure end of runway climb heading 100° to 6300. All other courses: climbing left turn heading 326° to intercept DEN VOR/DME R-191 to DEN VOR/DME, thence ... **Rwys 17L, 17R**, climb on a heading between 346° CW to 159° from departure end of runway. All other courses: climbing left turn heading 331° to intercept DEN VOR/DME R-196 to DEN VOR/DME, thence ... **Rwy 28**, climb on a heading between 330° CW to 100° from departure end of runway. All other courses: climbing right turn heading 072° to intercept DEN VOR/DME R-207 to DEN VOR/DME, thence ... **Rwy 35L**, climb on a heading between 330° CW to 159° from departure end of runway. All other courses: climb heading 346° to intercept DEN VOR/DME R-208 to DEN VOR/DME, thence ... **Rwy 35R**, climb on a heading between 330° CW to 159° from departure end of runway. All other courses: climb heading 347° to intercept DEN VOR/DME R-208 to DEN VOR/DME, thence ...

... Climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 10**, terrain beginning 238' from departure end of runway, 30' right of centerline, up to 5859' MSL. Fences beginning 1211' from departure end of runway, 233' right of centerline, up to 8' AGL/5841' MSL. Multiple bushes beginning 1378' from departure end of runway, 284' right of centerline, up to 6' AGL/5840' MSL. Multiple roads with vehicles beginning 198' from departure end of runway, 404' left of centerline, up to 15' AGL/5835' MSL. Terrain 1357' from departure end of runway, 253' left of centerline, 5829' MSL. **Rwy 17L**, multiple trees beginning 2968' from departure end of runway, 761' right of centerline, 100' AGL/5976' MSL. **Rwy 17R**, terrain 181' from departure end of runway, 496' right of centerline, 5887' MSL. Fence 538' from departure end of runway, 196' right of centerline, 8' AGL/5889' MSL. Multiple trees beginning 562' from departure end of runway, 61' right of centerline, up to 16' AGL/5976' MSL. Multiple light poles beginning 2362' from departure end of runway, 256' right of centerline, up to 30' AGL/5942' MSL. Vehicles on roads beginning 2812' from departure end of runway, on centerline, up to 17' AGL/5946' MSL. Obstruction light on building 3282' from departure end of runway, 842 feet right of centerline, 90' AGL/6021' MSL. **Rwy 28**, terrain beginning 89' from departure end of runway, from 513' left to 137' right of centerline, up to 5849' MSL. Windsock 100' from departure end of runway, 183' left of centerline, 15' AGL/5832' MSL. Multiple trees beginning 1640' from departure end of runway, 731' left of centerline, up to 100' AGL/5959' MSL. **Rwy 35L**, terrain beginning 54' from departure end of runway, 110' right of centerline, up to 5829' MSL.

DENVER, CO (CON'T)

DENVER INTL (DEN)

AMDT 2 08213 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb on a heading between 312° CW to 215° from departure end of runway. All other courses: climbing right turn, thence ... **Rwy 8**, climb on a heading between 307° CW to 218° from departure end of runway. All other courses: climbing right turn, thence ... **Rwys 16L, 16R**, climb on a heading between 210° CCW to 350° from departure end of runway. All other courses: climbing left turn, thence ... **Rwys 17L, 17R**, climb on a heading between 219° CCW to 350° from departure end of runway. All other courses: climbing right turn, thence ... **Rwy 25**, climb on a heading between 314° CW to 080° or 203° CCW to 080° from departure end of runway. All other courses: climbing left turn, thence ... **Rwy 26**, climb on a heading between 310° CW to 080° or 216° CCW to 080° from departure end of runway. All other courses: climbing left turn, thence ... **Rwys 34L, 34R**, climb on a heading between 310° CW to 169° from departure end of runway. All other courses: climbing right turn, thence ... **Rwys 35L, 35R**, climb on a heading between 310° CW to 169° from departure end of runway. All other courses: climbing left turn, thence ...
... direct DEN VOR/DME, climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 8**, multiple trees beginning 115' from departure end of runway, 444' right of centerline, up to 100' AGL/5389' MSL. **Rwy 16L**, tower 4722' from departure end of runway, 1359' left of centerline, 153' AGL/5473' MSL. Antenna on obstruction light tower 4746' from departure end of runway, 1358' left of centerline, 153' AGL/5473' MSL. **Rwy 17L**, multiple trees beginning 247' from departure end of runway, 543' right of centerline, up to 100' AGL/5489' MSL. **Rwy 17R**, multiple trees beginning 1457' from departure end of runway, 759' right of centerline, up to 100' AGL/5529' MSL. **Rwy 25**, multiple trees beginning 303' from departure end of runway, 557' right of centerline, up to 100' AGL/5439' MSL. **Rwy 34L**, multiple trees beginning 273' from departure end of runway, 537' right of centerline, up to 100' AGL/5399' MSL. **Rwy 34R**, multiple trees beginning 471' from departure end of runway, 580' right of centerline, up to 100' AGL/5449' MSL. **Rwy 35L**, terrain beginning 149' from departure end of runway, 34' right of centerline, up to 5414' MSL.

DENVER, CO (CON'T)

FRONT RANGE (FTG)
AMDT 2 08213 (FAA)

DEPARTURE PROCEDURE: **Rwy 8**, climb on a heading between 310° CW to 225° from departure end of runway. All other courses: climbing left turn, then... **Rwy 17**, climb on a heading between 350° CW to 226° from departure end of runway. All other courses: climbing right turn, then... **Rwy 26**, climb on a heading between 311° CW to 080° or between 224° CCW to 080° from departure end of runway. All other courses: climbing right turn, then... **Rwy 35**, climb on a heading between 310° CW to 169° from departure end of runway. All other courses: climbing left turn, then...

... Direct DEN VOR/DME, climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 17**, multiple trees beginning 247' from departure end of runway, 534' left of centerline, up to 50' AGL/5629' MSL. Multiple trees beginning 293' from departure end of runway, 555' right of centerline, up to 50' AGL/5599' MSL. Pole 3618' from departure end of runway, 516' left of centerline, 92' AGL/5603' MSL. **Rwy 26**, multiple trees beginning 255' from departure end of runway, 317' left of centerline, up to 50' AGL/5499' MSL. Multiple trees beginning 272' from departure end of runway, 498' right of centerline, up to 50' AGL/5479' MSL.

ROCKY MOUNTAIN METROPOLITAN (BJC)

AMDT 4 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29L**, 200-1 or std. w/ min. climb of 402' per NM to 5900.

DEPARTURE PROCEDURE: **Rwy 2**, climb on a heading between 350° CW to 160° from departure end of runway. All other courses: climbing right turn heading 147° to intercept DEN VOR/DME R-282 to DEN VOR/DME, then... **Rwys 11L, 11R**, climb on a heading between 160° CCW to 350° from departure end of runway. All other courses: climb heading 113° to intercept DEN VOR/DME R-272 to DEN VOR/DME, then... **Rwy 20**, climb on a heading between 160° CCW to 024° from departure end of runway. All other courses: climbing left turn heading 044° to intercept DEN VOR/DME R-269 to DEN VOR/DME, then... **Rwy 29R**, climb on a heading between 350° CW to 113° from departure end of runway. All other courses: climbing right turn heading 142° to intercept DEN VOR/DME R-277 to DEN VOR/DME, then... **Rwy 29L**, climb on a heading between 350° CW to 113° from departure end of runway. All other courses: Climbing right turn heading 142° to intercept DEN VOR/DME R-276 to DEN VOR/DME, then...

... climb in DEN VOR/DME holding pattern (hold south, right turns, 340° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 2**, pole 432' from departure end of runway, 370' right of centerline, 49' AGL/5619' MSL. **Rwy 29L**, terrain beginning 45' from departure end of runway 292' left of centerline, up to 5839' MSL. Fence 1015' from departure end of runway 392' left of centerline, 15' AGL/5725' MSL. Fence 982' from departure end of runway 303' left of centerline, 14' AGL/5714' MSL. Multiple trees beginning 687' from departure end of runway 615' right of centerline up to 70' AGL/5839' MSL. Tree 3196' from departure end of runway 1337' left of centerline, 70' AGL/5839' MSL.

DURANGO, CO

DURANGO-LA PLATA COUNTY (DRO)
AMDT 6A 09015

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min. climb of 215' per NM to 7600, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to 9000 heading 160° and DRO VOR/DME R-125 to RESER INT, or for climb in visual conditions: Cross Durango-La Plata County Airport Southeast bound at or above 8200 MSL, then proceed on DRO VOR/DME R-125 to RESER INT. **Rwy 21**, climbing right turn to 9500 heading 280° and DRO VOR/DME R-235 to MARKE INT.

NOTE: **Rwy 3**, trees beginning 1223' from departure end of runway, 794' left of centerline, up to 42' AGL/6741' MSL. Trees beginning 488' from departure end of runway, 431' right of centerline, up to 42' AGL/6698' MSL, vehicles on road beginning 8' from departure end of runway, right and left of centerline, up to 15' AGL/6706' MSL.

EAGLE, CO

EAGLE COUNTY RGNL (EGE)
AMDT 7 09239 (FAA)

DEPARTURE PROCEDURE: use GYPSUM DEPARTURE.

ERIE, CO

ERIE MUNI

TAKE-OFF MINIMUMS: **Rwy 15**, 500-2 or std. with a min. climb gradient of 270' per NM to 5700.

DEPARTURE PROCEDURE: **Rwys 9, 15**, turn right; **Rwys 27, 33**, turn left; climb direct BJC VOR/DME. Departures on BJC R-340 CW R-150 climb on course. All others climb in BJC holding pattern (NE, left turns 203° inbound) to cross BJC VOR/DME at or above 13300, or comply with RADAR vectors.

FARMINGTON, NM

FOUR CORNERS RGNL

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA.
DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 6300 before turning left. **Rwy 23**, climb runway heading to 6500 before turning left.

FORT COLLINS, CO

FORT COLLINS-LOVELAND MUNI (FNL)
AMDT 5 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA-VFR runway.
DEPARTURE PROCEDURE: **Rwy 15**, climb on heading between 117° CCW to 329° from departure end of runway. All other courses: climbing left turn heading 017° to intercept GLL VORTAC R-242 to GLL VORTAC, then... **Rwy 33**, climb on heading between 323° CW to 148° from departure end of runway. All other courses: climbing right turn heading 122° to intercept GLL VORTAC R-257 to GLL VORTAC, then...
...climb in GLL VORTAC holding pattern (hold NE, right turns, 205° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 33**, multiple trees beginning 833' from departure end of runway, 516' right of centerline, up to 66' AGL/5025' MSL. Multiple poles beginning 567' from departure end of runway, 540' left of centerline, up to 26' AGL/4995' MSL.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

GALLUP, NM

GALLUP MUNI

TAKE-OFF MINIMUMS: **Rwy 6**, CAT A,B 1300-2 or std. with a min. climb of 300' per NM until passing 8000.

CAT C,D 1600-3 or std. with a min. climb of 320' per NM until passing 8500. **Rwy 24**, 700-2 or std. with a min. climb of 370' per NM until passing 8000.

DEPARTURE PROCEDURE: **Rwy 6**, turn left.

All aircraft climb direct GUP VORTAC. Departures via GUP R-190 CW R-242 climb on course. Departures via GUP R-243 CW R-189 climb in GUP holding pattern (SW, right turns, 047° inbound) to cross GUP at or above 9000.

GRAND JUNCTION, CO

GRAND JUNCTION RGNL (GJT)

AMDT 11 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, NA-obstacles. **Rwy 22**,

NA-obstacles, facility reception (JNC VORTAC).

DEPARTURE PROCEDURE: **Rwys 11, 29**, use MONUMENT DEPARTURE.

GRANTS, NM

GRANTS-MILAN MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 2400-2 or std. with a min. climb of 420' per NM to 11000. **Rwy 31**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to join V12 at or above 11000 before proceeding on course.

GREELEY, CO

GREELEY-WELD COUNTY (GXY)

AMDT 3 08241 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climb on a heading between 289° CW to 211° from departure end of runway.

All other courses: climbing left turn, thence... **Rwy 16**, climb on a heading between 209° CCW to 347° from departure end of runway. All other courses: climbing left turn, thence... **Rwy 27**, climb on a heading between 291° CW to 094° or 206° CCW to 094° from departure end of runway. All other courses: climbing right turn, thence... **Rwy 34**, climb on a heading between 290° CW to 166° from departure end of runway. All other courses: climbing right turn, thence...

...direct GLL VORTAC, climb in GLL VORTAC holding pattern (hold NE, right turns, 205° inbound) to 16500 before proceeding on course.

NOTE: **Rwy 27**, tree 1634' from departure end of runway, 836' left of centerline, 56' AGL/4717' MSL, fence 237' from departure end of runway, 422' right of centerline, 9' AGL/4670' MSL, fence 99' from departure end of runway, 423' left of centerline, 4' AGL/4665' MSL. **Rwy 34**, multiple trees beginning 1860' from departure end of runway, 595' right of centerline, up to 67' AGL/4785' MSL, tree 2854' from departure end of runway, 524' left of centerline, 73' AGL/4770' MSL.

GUNNISON, CO

GUNNISON-CRESTED BUTTE RGNL

TAKE-OFF MINIMUMS: **Rwy 6**, 1600-3 or 600-2 with a min. climb of 550' per NM to 9500. **Rwy 24**, 1200-3 or 400-2 with a min. climb of 350' per NM to 9500.

Rwys 17, 35, NA.

DEPARTURE PROCEDURE: **Rwy 6**, at departure end of runway, climb heading 072° to 9500 then climbing right turn direct HBU VOR/DME. Aircraft unable to maintain 550' per NM must maneuver visually to depart the 11 DME fix inbound to the HBU VOR/DME on the HBU R-062 at or above 9200. **Rwy 24**, climb runway heading to 8400 then climbing left turn direct HBU VOR/DME. Aircraft unable to maintain 350' per NM must maneuver visually to depart the 4 DME fix inbound to the HBU VOR/DME on the HBU R-010 at or above 8800.

All aircraft continue climbing in HBU holding pattern (SW, left turns, 031° inbound) to depart HBU VOR/DME at or above: R-261 CW R-280, 10800; R-281 CW R-189 and R-191 CW R-260, 13000; R-190, 12500.

HAYDEN, CO

YAMPA VALLEY (HDN)

AMDT 3 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 400' per NM to 12200, or 3200-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 245' per NM to 9500, or 3200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb on heading 147° to 12200 before proceeding on course. **Rwy 28**, climb on heading 238° to 9500 before proceeding on course. **Rwys 10, 28**, for climb in visual conditions: cross Yampa Valley airport at or above 9700 before proceeding on course.

NOTE: **Rwy 10**, tree 241' from DER, 420' right of centerline, 100' AGL/6699' MSL. Tree 644' from DER, 340' left of centerline, 100' AGL/6699' MSL. Multiple transmission towers, beginning 3606' from DER, left to right of centerline, up to 145' AGL/6745' MSL. Terrain beginning 1714' from DER, 707' right of centerline, up to 6676' MSL.

HOBBS, NM

LEA COUNTY RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ a min. climb of 218' per NM to 4300, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1600' prior to departure end of runway.

NOTE: **Rwy 3**, multiple trees beginning 546' from departure end of runway, 811' right of centerline, up to 40' AGL/3700' MSL. Sign 822' from departure end of runway, 694' left of centerline, 38' AGL/3676' MSL. **Rwy 8**, tower 3 NM from departure end of runway, 2587' right of centerline, 515' AGL/4120' MSL. **Rwy 12**, road at departure end of runway, 112' right of centerline, 15' AGL/3654' MSL. **Rwy 17**, obstruction light on glideslope, 1014' from departure end of runway, 486' right of centerline, 37' AGL/3687' MSL. **Rwy 21**, tree 1304' from departure end of runway, 726' right of centerline, 46' AGL/3690' MSL. **Rwy 26**, road 253' from departure end of runway, across centerline, 15' AGL/3669' MSL. **Rwy 30**, wind sock 103' from departure end of runway, 280' left of centerline, 16' AGL/3675' MSL, pole 1035' from departure end of runway, 540' right of centerline, 25' AGL/3689' MSL. **Rwy 35**, multiple fences, roads and poles beginning 103' from departure end of runway, across centerline, up to 37' AGL/3696' MSL, pole 299' from departure end of runway, 495' left of centerline, 25' AGL/3689' MSL, pole 293' from departure end of runway, 94' right of centerline, 25' AGL/3682' MSL.

HOLLOMAG AFB (KHMN),

ALAMOGORDO, NM ORIG, 08101

Rwy 7, NA
Rwy 16, 8000-3*
Rwy 22, 8000-3**
Rwy 25, 8000-3*
Rwy 34, 8000-3***

* Or standard with minimum climb of 510'/NM to 14,100.
 ** Or standard with minimum climb of 470'/NM to 14,100.
 *** Or standard with minimum climb of 490'/NM to 14,100.

Rwy 16, 22, 25, 34, RADAR REQUIRED (when R-5103C not under Holloman Approach or Cherokee control).

TAKE-OFF OBSTACLES: **Rwy 16**, Terrain 4052' MSL, 46' from DER, 512' left of centerline; Terrain 4052' MSL, 16' from DER, 500' left of centerline; Terrain 4052' MSL, 12' from DER, 503' left of centerline; Vehicle on road 15' AGL/4180' MSL, 589' from DER, 1170' right of centerline; Building 17' AGL/4070' MSL, 67' from DER, 283' right of centerline. **Rwy 22**, Terrain 4058' MSL, 4' from DER, 63' left of centerline; Terrain 4060' MSL, 127' from DER, 534' right of centerline; Terrain 4059' MSL, 0' from DER, 500' right of centerline; Vehicle on road 10' AGL/4190' MSL, 1963' from DER, 422' right of centerline; Vehicle on road 10' AGL/4190' MSL, 1977' from DER, 90' right of centerline. **Rwy 25**, Vehicle on road 10' AGL/4190' MSL, 4387' from DER, 14' left of centerline; Vehicle on road 10' AGL/4190' MSL, 4225' from DER, 303' left of centerline; Vehicle on road 15' AGL/4190' MSL, 1812' from DER, 1464' left of centerline.

HOLYOKE, CO

HOLYOKE

NOTE: **Rwy 14**, trees 2012' from departure end of runway, 29' left of centerline, 100' AGL/3829' MSL. **Rwy 32**, trees 1009' from departure end of runway, 697' left of centerline, 100' AGL/3839' MSL.

KREMMLING, CO

MC ELROY AIRFIELD

TAKE-OFF MINIMUMS: **Rwy 9**, 2600-2 or std. with a min. climb of 370' per NM to 12700. **Rwy 27**, 3200-2 or std. with a min. climb of 500' per NM to 12700.
 DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 10000, then climbing right turn. **Rwy 27**, climb runway heading to 10900, then climbing left turn. **All aircraft** proceed direct RLG VOR/DME. Continue climb to 13,000 in RLG holding pattern (hold SW, left turns, 051° inbound).

LA JUNTA, CO

LA JUNTA MUNI

DEPARTURE PROCEDURE: **Rwy 8**, climb via heading 080°. **Rwy 12**, climb via heading 120°. **Rwy 26**, turn left heading 160°. **Rwy 30**, turn left heading 140°. **All aircraft**, intercept LAA R-238 (V210) to LAA VORTAC. When at or above 8000 proceed on course.

LAMAR, CO

LAMAR MUNI

DEPARTURE PROCEDURE: **Rwys 8, 36**, turn left. **Rwy 18**, turn left/right. **Rwy 26**, turn right. Direct LAA VORTAC. Aircraft departing LAA R-048 CWR-118 climb on course. All others continue climbing in LAA holding pattern (N, right turns, 169° inbound) to 6000 before proceeding on course.

LAS CRUCES, NM

LAS CRUCES INTL

DEPARTURE PROCEDURE: **Rwys 4, 8**, climbing right turn. **Rwy 12**, CAT A,B, climb runway heading CAT C,D, NA. **Rwys 22, 26**, climbing left turn. **Rwy 30**, climbing runway heading to 5100 then climbing left turn. **All aircraft** climb direct HAWKE LOM. Continue climb in HAWKE holding pattern (SE, left turns, 304° inbound) to cross HAWKE LOM at or above 10000 before proceeding on course.

LAS VEGAS, NM

LAS VEGAS MUNI

DEPARTURE PROCEDURE: **Rwys 2, 14** turn left/right. **Rwy 20**, turn left (except via FTIR-215). **Rwy 32**, turn right.
 Departures via FTI VORTAC R-001 CW R-215 climb on course. Departures via FTI VORTAC R-216 CW R-360 proceed direct FTI VORTAC. Climb in FTI VORTAC holding pattern (hold north, left turn, 192° inbound) to cross FTI at airway MEA/MCA. (NOTE: climb in hold not authorized for turbojet aircraft)

LEADVILLE, CO

LAKE COUNTY (LXV)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, use LOZUL (RNAV) DEPARTURE. **Rwy 34**, use DAVVY (RNAV) DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

LONGMONT, CO

VANCE BRAND

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1 or std. with a min. climb of 250' per NM until passing 5400.

Rwy 29, CAT A,B 1900-3 or std. with a min. climb of 380' per NM until passing 7000. CAT C,D NA.

DEPARTURE PROCEDURE: Comply with RADAR vectors, or: **Rwys 11, 29**, turn right climb direct BJC VOR/DME. Departures on BJC R-340 CW R-150 climb on course. All others climb in BJC holding pattern (NE, left turns, 203° inbound) to cross BJC VOR/DME at or above 13300.

NOTE: Climb in holding NA for turbojet aircraft.

LOS ALAMOS, NM

LOS ALAMOS

TAKE-OFF MINIMUMS: **Rwy 27**, NA-obstacles and airport restriction.

DEPARTURE PROCEDURE: **Rwy 9**, climb via heading 092° until intercepting SAF VORTAC R-354. Northbound proceed via V83 climbing to 11000. Southbound proceed via V83 at 9000.

LOVINGTON, NM

LEA COUNTY-ZIP FRANKLIN MEMORIAL

DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 4700 before turning on course. **Rwy 12**, 35' AGL powerline 1250' from departure end of runway 150' right of centerline. **Rwy 21**, 40' AGL tower 936' from departure end of runway 273' right of centerline.

Rwy 30, 50' AGL windmill 1800' from departure end of runway 50' right of centerline.

MEEKER, CO

MEEKER (EEO)

AMDT 1 08157

TAKE-OFF MINIMUMS: **Rwys 3, 21**, 4100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 21**, for climb in visual conditions: cross Meeker Airport at or above 10500 before proceeding on course.

NOTE: **Rwy 21**, multiple trees beginning 843' from departure end of runway, 20' left of centerline, up to 100' AGL/7190' MSL. Multiple trees beginning 227' from departure end of runway, 187' right of centerline, up to 100' AGL/6862' MSL.

MONTE VISTA, CO

MONTE VISTA MUNI

DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn. **Rwy 20**, climbing left turn. **All aircraft**, climb direct ALS VORTAC, continue climb in ALS holding pattern (SE, right turns, 301° inbound) to cross ALS VORTAC at or above 11,000, except V210 westbound 11,200 and J102 northeastbound 13,700, before proceeding enroute.

MONTROSE, CO

MONTROSE RGNL (MTJ)

AMDT 4 09127 (FAA)

DEPARTURE PROCEDURE: Use MONTROSE DEPARTURE.

NUCLA, CO

HOPKINS FIELD

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA-environmental DEPARTURE PROCEDURE: **Rwys 5, 23**, use NUCLA (RNAV) DEPARTURE.

PAGOSA SPRINGS, CO

STEVENS FIELD (PSO)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 437' per NM to 9600, or 1900-3 for climb in visual conditions. **Rwy 19**, std. w/ min. climb of 296' per NM to 9300, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 216° to intercept DRO VOR/DME R-066 to DRO VOR/DME for climb in visual conditions cross Stevens Field airport south bound at or above 9400 MSL, then via DRO VOR/DME R-066 to DRO VOR/DME

Rwy 19, climb via heading 194° to intercept DRO VOR/DME R-075 to DRO VOR/DME for climb in visual conditions cross Stevens Field airport south bound at or above 9400 MSL, then via DRO VOR/DME R-066 to DRO VOR/DME

... thence cross DRO VOR/DME at MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 1**, terrain beginning 30' from departure end of runway, 53' left of centerline, up to 7697' MSL. Terrain beginning 127' from departure end of runway, 69' right of centerline, up to 7681' MSL. Multiple trees beginning 940' from departure end of runway, left and right of centerline, up to 100' AGL/7739' MSL. **Rwy 19**, multiple trees beginning 664' from departure end of runway, 156' left of centerline, up to 100' AGL/7693' MSL. Multiple trees beginning 1625' from departure end of runway, 5' right of centerline, up to 100' AGL/7698' MSL.

PUEBLO, CO

PUEBLO MEMORIAL (PUB)

AMDT 4 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1¾ or standard w/ a min. climb of 254' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 8L**, climb heading 077° to 5500, then climbing left turn via heading 210° and PUB R-040 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 8R**, climb heading 077° to 5400, then climbing left turn via heading 210° and PUB R-040 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight.

Rwy 17, climb heading 167° to 5800, then climbing left turn via heading 050 and PUB R-180 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 26L**, climb heading 257° to 5700, then climbing left turn via heading 070° and PUB R-220 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 26R**, climb heading 257° to 5700, then climbing left turn via heading 070° and PUB R-220 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight. **Rwy 35**, climb heading 347° to 5200, then climbing right turn via heading 150° and PUB R-360 to PUB VORTAC, continue climb in PUB VORTAC holding pattern (hold NE, right turns, 244° inbound) to cross PUB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 8L**, rising terrain 57' from DER, 123' left of centerline, up to 4649' MSL. **Rwy 8R**, rising terrain 180' from DER, 58' left of centerline, up to 4659' MSL.

Rwy 26L, rising terrain 110' from DER, 182' right of centerline, up to 4659' MSL, rising terrain 128' from DER, 122' left of centerline, up to 4659' MSL. **Rwy 26R**, rising terrain 208' from DER, 446' right of centerline, up to 4679' MSL. **Rwy 35**, rising terrain 2' from DER, 7' left of centerline, up to 4749' MSL, rising terrain 196' from DER, 11' right of centerline, up to 4793' MSL, transmission poles 1.1 NM from DER, 703' right of centerline, 46' AGL/4925' MSL, radar reflector 996' from DER, on centerline, 4' AGL/4757' MSL.

RATON, NM

RATON MUNI/CREWS FIELD

DEPARTURE PROCEDURE: When weather below 1500-2: **Rwys 2,7**, climb on CIM R-040 northeastbound to 8000, then on course to assigned altitude. **Rwys 20,25**, climb on CIM R-040 southwestbound to 8000, then on course to assigned altitude.

RIFLE, CO

GARFIELD COUNTY RGNL (RIL)

AMDT 8 08157

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ a min. climb of 369' per NM to 12400 or 5400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, DME required. Climb via RIL R-081 to ZOBAB/10 DME, then climbing left turn direct RIL VOR/DME. Climb in RIL VOR/DME holding pattern (Hold E, right turn, 263° inbound) to cross RIL VOR/DME at or above MEA/MCA before proceeding enroute, or for climb in visual conditions cross Garfield County Rgnl Airport at or above 10800 before proceeding on course. **Rwy 26**, use SQUAT RNAV DEPARTURE.

NOTE: **Rwy 8**, transmission line towers beginning 1.2 NM from departure end of runway, 437' right of centerline, up to 150' AGL/6069' MSL. Trees beginning 1.9 NM from departure end of runway, 647' right of centerline, up to 100' AGL/5983' MSL. Terrain beginning 124' from departure end of runway, 287' right of centerline, up to 5863' MSL. Pole 1083' from departure end of runway, 656' right of centerline, 28' AGL/5588' MSL.

ROSWELL, NM

ROSWELL INTL AIR CENTER

DEPARTURE PROCEDURE: **Rwy 30**, climb to 6000 via runway heading to intercept CME R-323, upon reaching 6000 proceed on course. **Rwy 35**, climbing left turn to 6000 via heading 277° to intercept CME R-323, upon reaching 6000 proceed on course.

RUIDOSO, NM

SIERRA BLANCA RGNL

TAKE-OFF MINIMUMS: **Rwys 6,24**, 5200-3 or std. with a min. climb of 420' per NM to 12,100'.

DEPARTURE PROCEDURE: **Rwy 6**, climb at 385' per NM to 9100' direct CEP NDB, continue climb in holding pattern (*hold E, left turns, 273° inbound) to cross CEP NDB at or above the MEA for direction of flight. *Do not exceed 230 kts in holding pattern. **Rwy 24**, immediate climbing left turn to 9100' direct CEP NDB, continue climb in holding pattern (*hold E, left turns, 273° inbound) to cross CEP NDB at or above the MEA for direction of flight. *Do not exceed 230 kts in holding pattern.

SALIDA, CO

HARRIET ALEXANDER FIELD (ANK)

ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 6800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 6, 24**, For climb in visual conditions: Cross Harriet Alexander Field at or above 14200 MSL before proceeding on course.

NOTE: **Rwy 24**, Multiple transmission towers beginning 666' from departure end of runway, 440' right of centerline, up to 73' AGL/7651' MSL. Multiple trees beginning 5455' from departure end of runway, 663' right of centerline, up to 100' AGL/7908' MSL.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SANTA FE, NM

SANTA FE MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 1000-3 or std. w/ a min. climb of 240' per NM until passing 7300 MSL.

Rwys 2, 33, Cats. C and D, 2900-3 or std. w/ a min. climb of 330' per NM until 9000 MSL.

DEPARTURE PROCEDURE: **Rwys 2, 10, 33**, turn right; **Rwys 20, 28**, turn left; **Rwy 15**, climb runway heading. **All aircraft** climb direct to SAF VORTAC. Continue climbing in SAF VORTAC holding pattern (hold SE, right turns, 332° inbound) to cross SAF VORTAC at or above airway MEA/MCA for direction of flight.

SANTA TERESA, NM

DONA ANA COUNTY AT SANTA TERESA

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ a min. climb of 419' per NM to 8400, or 2800-3 for climb in visual conditions. **Rwy 28**, std. w/ a min. climb of 358' per NM to 8400, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 10, 28**, for climb in visual conditions: cross Dona Ana County at Santa Teresa Airport at or above 6800 before proceeding on course.

SILVER CITY, NM

GRANT COUNTY

TAKE-OFF MINIMUMS: **Rwys 3, 8, 12, 17, 21, 26, 30, 35**, std. w/ a min. climb of 354' per NM to 9200, or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 8, 12, 17, 21, 26, 30, 35**, for climb in visual conditions: cross Grant County Airport at or above 9200.

NOTE: **Rwy 3**, crane 5007' from departure end of runway, 1056' right of centerline, 200' AGL/5610' MSL. **Rwy 8**, pole 1.12 NM from departure end of runway, 381' right of centerline, 30' AGL/5383' MSL. Power line 2.18 NM from departure end of runway, 139' right of centerline, 200' AGL/5520' MSL. **Rwy 12**, pole 5265' from departure end of runway, 490' right of centerline, 72' AGL/5417' MSL. **Rwy 17**, pole 1.02 NM from departure end of runway, 469' left of centerline, 50' AGL/5408' MSL. **Rwy 21**, multiple bushes beginning from 4556' from departure end of runway, 79' right of centerline, up to 40' AGL/5403' MSL.

SOCORRO, NM

SOCORRO MUNI (ONM)

AMDT 3 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 15, 24**, NA-terrain.

Rwy 33, 200-1¼ or std. w/ min. climb of 216' per NM to 5100, or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1500' prior to DER.

DEPARTURE PROCEDURE: **Rwy 33**, climbing right turn via heading 030° and ONM VORTAC R-179 to ONM VORTAC, continue climb-in-hold (hold North, right turns, 182° inbound) to cross ONM VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 33**, trees beginning 67' from DER, 66' left of centerline, up to 15' AGL/4814' MSL. Trees beginning 436' from DER, 438' right of centerline, up to 15' AGL/4814' MSL. Tower 4996' from DER, 1161' left of centerline, 147' AGL/4947' MSL. Tower 5851' from DER, 584' right of centerline, 200' AGL/4956' MSL.

SPRINGFIELD, CO

SPRINGFIELD MUNI (8V7)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 4900-3 or std. w/ a min. climb of 225' per NM to 5000.

NOTE: **Rwy 17**, tower 15212' from departure end of runway, 2936' right of centerline, 425' AGL/4817' MSL.

STEAMBOAT SPRINGS, CO

STEAMBOAT SPRINGS/BOB ADAMS FIELD

TAKE-OFF MINIMUMS: **Rwys 14**, 1500-3 or std. w/ a min. climb of 610' per NM to 9000. **Rwy 32**, 1900-3 or std. w/ a min. climb of 500' per NM to 9000.

DEPARTURE PROCEDURE: **Rwy 14**, turn right heading 220°, intercept BQZ R-172. **Rwy 32**, turn left direct BQZ VOR/DME. **All aircraft** climb to 12100 via BQZ R-172 to SBURG Int and hold (S, right turns, 352° inbound).

STERLING, CO

STERLING MUNI

DEPARTURE PROCEDURE: **Rwys 3, 30, 33**, turn left.

Rwys 12, 15, 21, turn right climb to 6000 direct toward SNY or AKO VOR/DME before proceeding on course.

TAOS, NM

TAOS RGNL

TAKE-OFF MINIMUMS: **Rwy 4**, 300-1.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn.

Rwy 22, climbing right turn. Intercept TAS R-100.

Climbing direct to the TAS VORTAC, continue climb in holding pattern to cross TAS VORTAC at or above the MEA for direction of flight.

TELLURIDE, CO

TELLURIDE RGNL (TEX)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, NA-obstacles. **Rwy 27**, std. w/ min. climb of 457' per NM to 10500, or 5300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 27**, climb to 12000 via heading 273° to intercept the ETL R-096 to ETL VOR/DME, or for climb in visual conditions: cross Telluride Airport westbound at or above 14200 via ETL R-095 to ETL VOR/DME. NOTE: All aircraft cross ETL VOR/DME at or above airway MEA/MCA for direction of flight.

NOTE: **Rwy 27**, trees beginning 203' from departure end of runway, 186' left of centerline, up to 100' AGL/9124' MSL. Trees beginning 281' from departure end of runway, 45' right of centerline, up to 100' AGL/9219' MSL. Obstruction light on post 2' from departure end of runway, 308' left of centerline, 17' AGL/9095' MSL. Terrain beginning at departure end of runway, left and right of centerline, up to 9075' MSL.

TRINIDAD, CO

PERRY STOKES

TAKE-OFF MINIMUMS: **Rwys 9, 27**, NA

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwy 21**, turn right, direct TAD NDB. Climb in holding to 7600 (N, left turns, 165° inbound). Aircraft departing TAD NDB bearing 330° CW 140° from TAD NDB: climb on course. Aircraft departing TAD NDB bearing 141° CW 329° from TAD NDB: depart at or above 12,500'.

NOTE: **Rwy 3**, tree 180' from departure end of runway, on centerline, 30' AGL/5765' MSL.

TRUTH OR CONSEQUENCES, NM

TRUTH OR CONSEQUENCES MUNI

TAKE-OFF MINIMUMS: 1500-3 or std. with a min. climb of 500' per NM to 8000.

DEPARTURE PROCEDURE: **Rwys 19,25,29,31**, turn right; **Rwys 1,7,11,13,15,33**, turn left, climb direct TCS VORTAC, continue climb in holding pattern (N, left turns, 180° inbound) to cross TCS VORTAC at above the MEA for direction of flight.

TUCUMCARI, NM

TUCUMCARI MUNI

DEPARTURE PROCEDURE: All **Rwys** for SW-bound V-264 climb TCC R-255 within 10 NM to 5500 before departing on course. **Rwy 21**, climb heading 213° to 5500 before proceeding on course. **Rwy 26**, climb heading 258° to 5500 before proceeding on course.

WALDEN, CO

WALDEN-JACKSON COUNTY (33V)

ORIG 08157

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 4, 22**, Use WALRU RNAV DEPARTURE.

WRAY, CO

WRAY MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, 500-2 or std. with a min. climb of 280' per NM to 4400.

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via AKO VOR/DME R-084 to 7000 before proceeding on course. **Rwy 35**, climbing left turn via AKO VOR/DME R-077 to 7000 before proceeding on course.

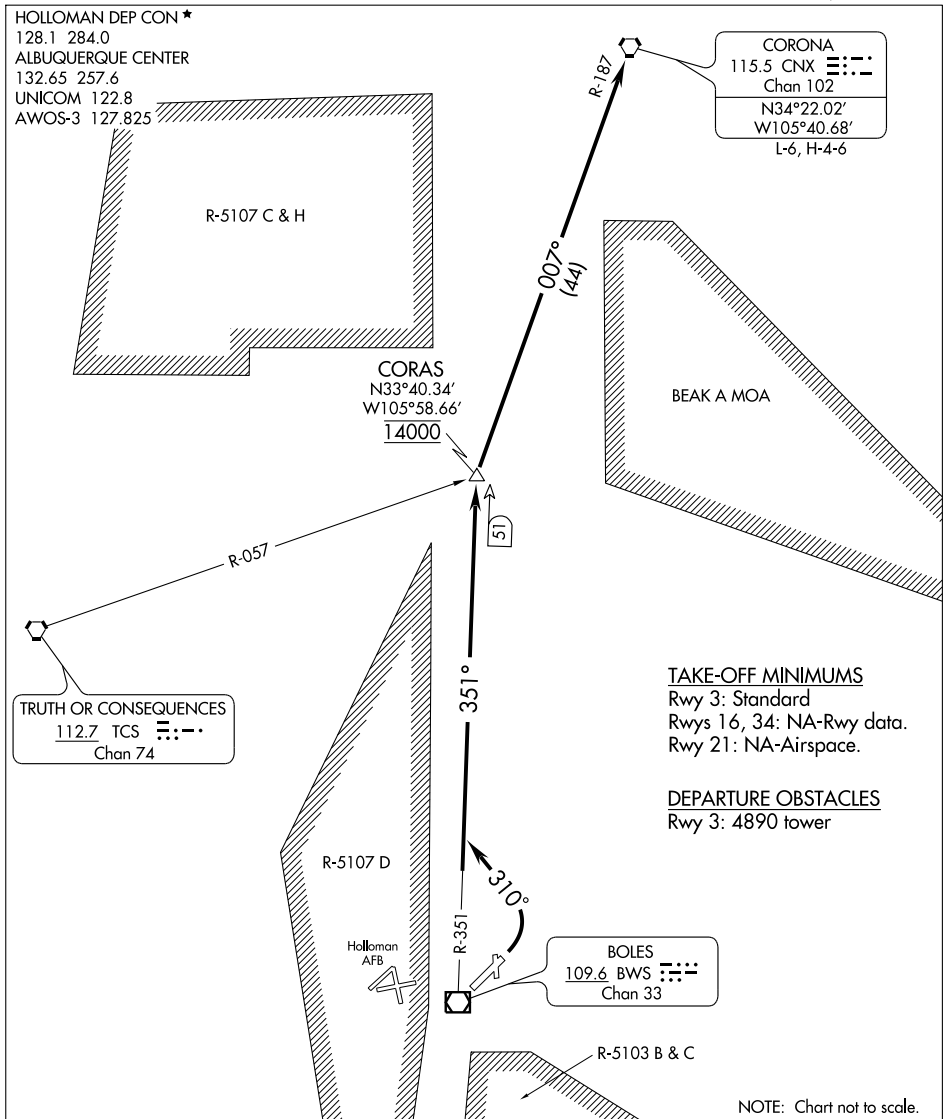
NOTE: **Rwy 35**, trees 2175' left of departure end of runway, 100' AGL/3778' MSL.

ZUNI PUEBLO, NM

BLACK ROCK

TAKE-OFF MINIMUMS: **Rwy 7**, 1200-2 or std. with a min. climb of 360 feet per NM to 7600.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn direct ZUN VORTAC. **Rwy 25**, climb direct ZUN VORTAC.



DEPARTURE ROUTE DESCRIPTION

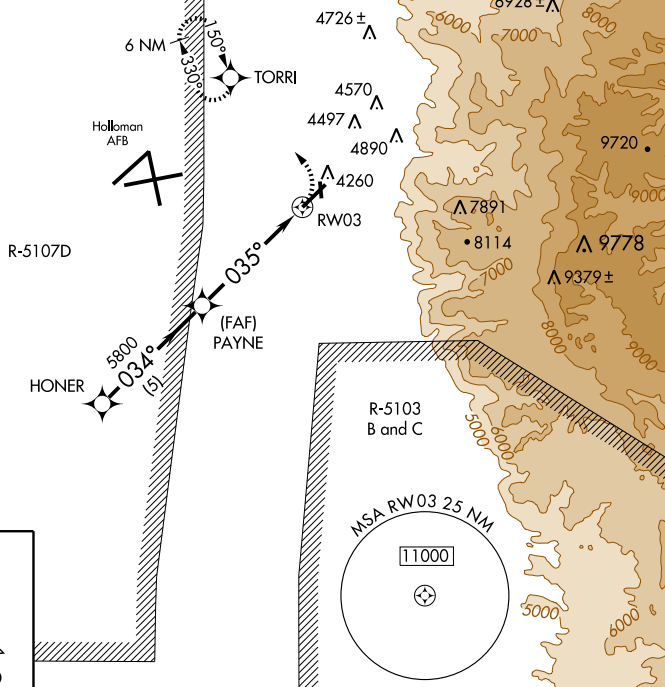
TAKE-OFF RUNWAY 3: Climbing left turn to 14,000 via 310° heading to intercept BWS VOR/DME R-351 to CORAS INT/BWS 51 DME. Cross CORAS at 14,000. Then turn right via CNX VORTAC R-187 to CNX VORTAC.

TAKE-OFF RUNWAYS 16, 21, and 34: Not Authorized.

APP CRS
035°Rwy Idg **7006**
TDZE **4167**
Apt Elev **4200****RNAV (GPS) RWY 3**
ALAMOGORDO-WHITE SANDS RGNL (ALM)

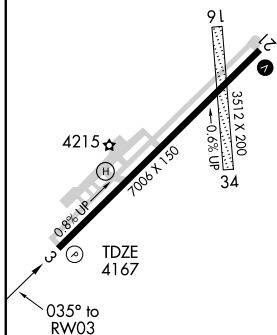
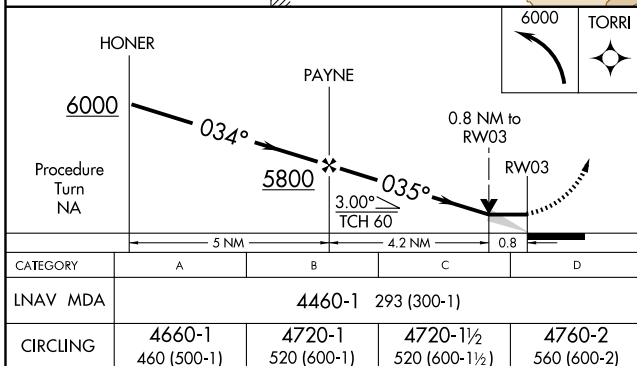
▼ All civil aircraft require ATC clearance prior to entering Restricted Area 5107D.
 ▲ NA Circling NA southeast of Rwy 3-21.
 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
 Not authorized when Holloman Approach Control closed.

MISSED APPROACH: Climbing left turn to
 6000 direct TORRI WP and hold.

AWOS-3
127.825HOLLOMAN APP CON ★
120.6 269.225UNICOM
122.8 (CTAF) 0**RADAR REQUIRED**

SW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 4200

DREIL Rwy 3 and 21
MIRL Rwy 3-21 0

VOR/DME BWS <u>109.6</u> Chan 33	APP CRS 035°	Rwy Idg 7006 TDZE 4167 Apt Elev 4200
--	------------------------	---

VOR/DME RWY 3

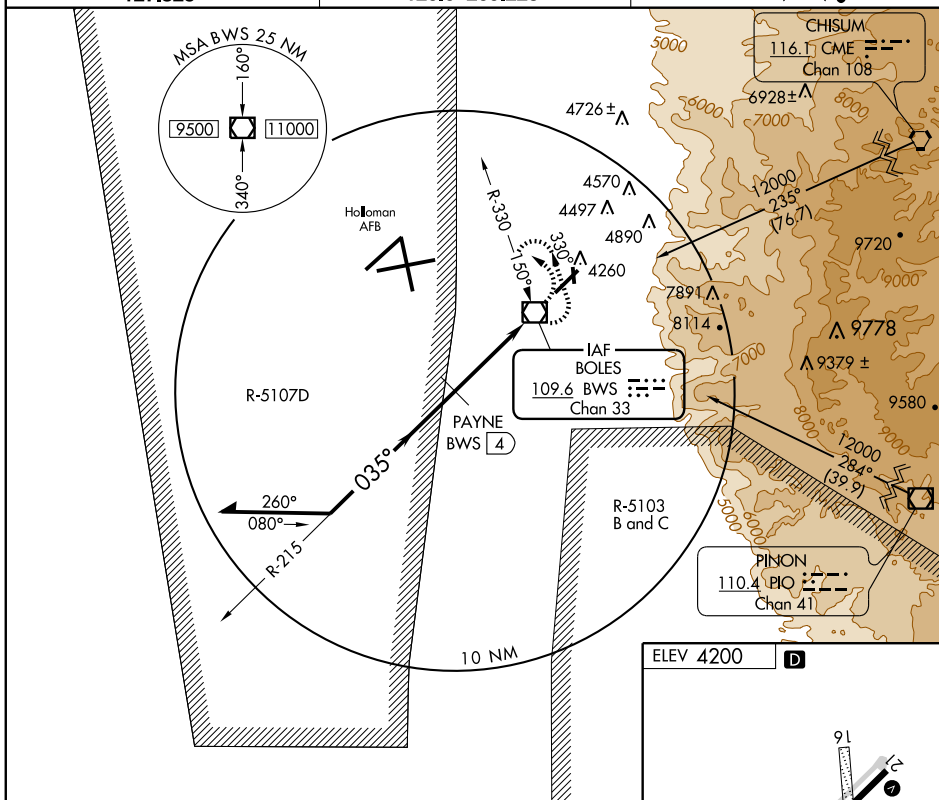
ALAMOGORDO-WHITE SANDS RGNL (ALM)

T	All civil aircraft require ATC clearance prior to entering Restricted Area 5107D.
NA	Circling NA southeast of Rwy 3-21. Arrivals over BOLES VOR/DME above 12000 descend in the holding pattern to 12000 before commencing approach. Not authorized when Holloman Approach Control closed.

MISSED APPROACH: Climbing left turn to 7000 via BWS R-330 then climbing left turn to 10000 direct BWS VOR/DME and hold.

AWOS-3
127.825

HOLLOMAN APP CON ★
120.6 269,225

UNICOM
122.8 (CTAF) **L**

Remain within 10 NM

7000

215°

PAYNE BWS 4

035°

5800

3.00° TCH 60'

4 NM

1 NM

VOR/DME *

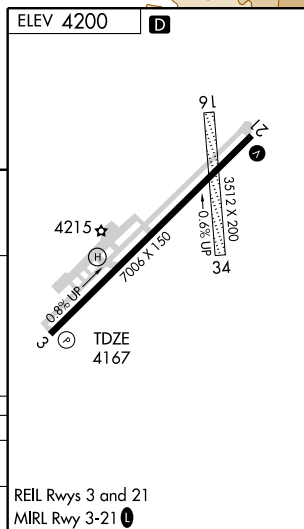
7000

10000

BWS R-330

109.6

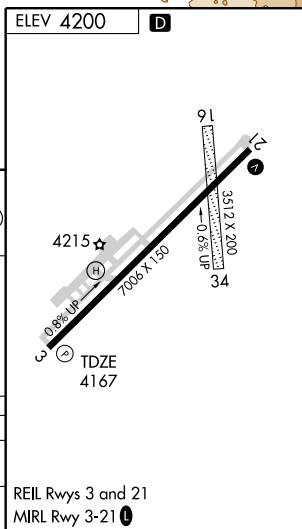
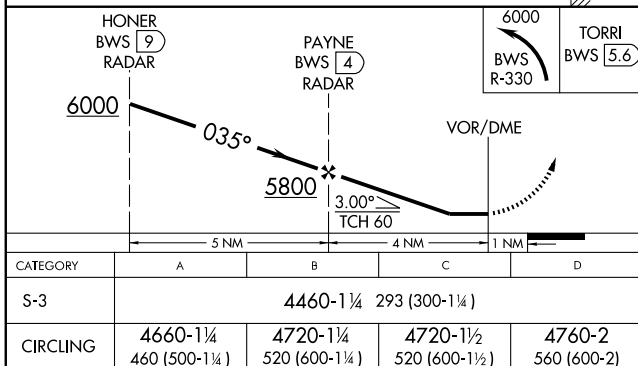
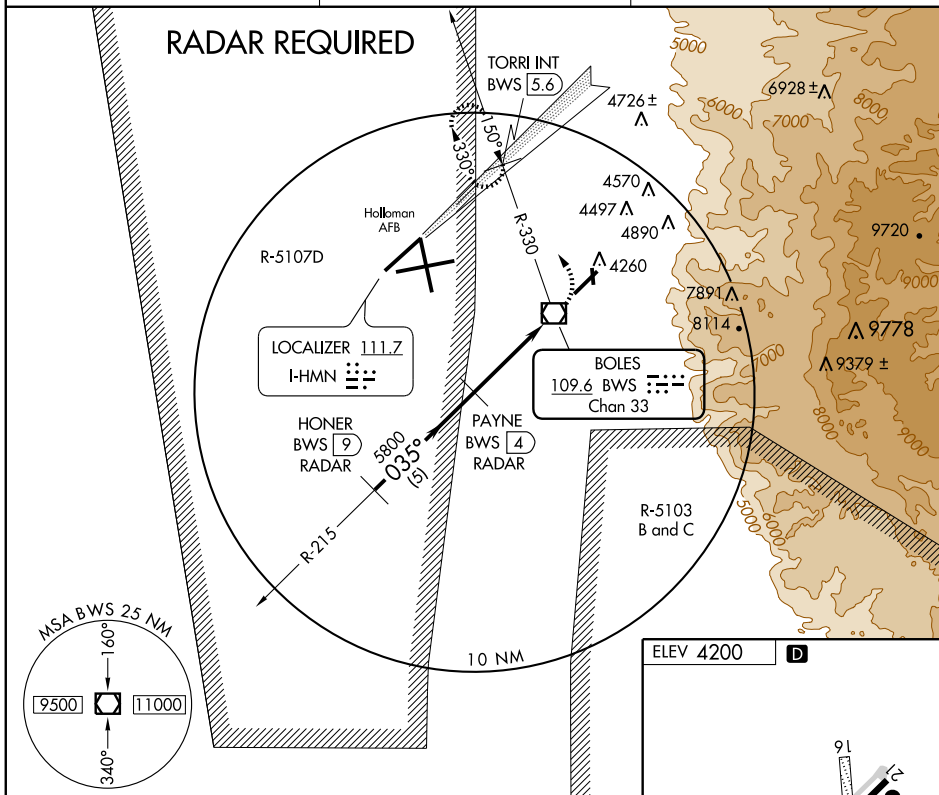
* Maintain 9300 or above until established outbound for PT.



VOR RWY 3
ALAMOGORDO-WHITE SANDS RGNL (ALM)

MISSED APPROACH: Climbing left turn to 6000 via BWS R-330 to TORRI Int/BWS 5.6 DME and hold.

HOLLOMAN APP CON ★
120.6 269,225

UN|COM
122.8 (CTAF) **L**

AIRPORT DIAGRAM

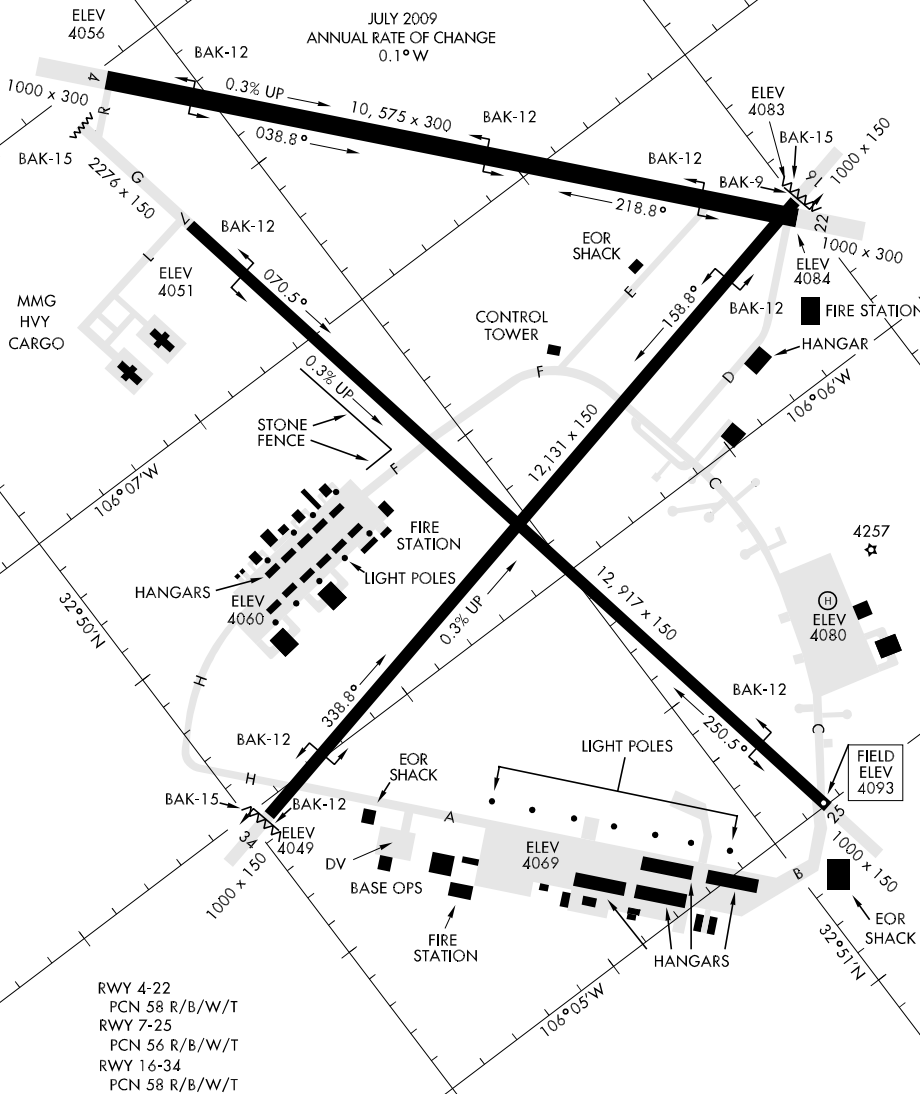
[USAF] AFD-7

ALAMOGORDO, NEW MEXICO

ATIS ★ 273.5
HOLLOMAN TOWER ★
119.3 255.9
GND CON
127.05 275.8
CLNC DEL
126.7 289.4

JULY 2009
ANNUAL RATE OF CHANGE
0.1°W

VAR 9.1°E



SW-1, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

WGS DATUM

ALAMOGORDO, NEW MEXICO

CLOUD-THREE ALPHA DEPARTURE (CLOUD3A•CLOUD)

ALAMOGORDO, NEW MEXICO

ATIS ★ 273.5
CLNC DEL
126.7 289.4
GND CON
127.05 275.8
HOLLOMAN TOWER ★
119.3 255.9
HOLLOMAN DEP CON
128.1 284.0
ALBUQUERQUE CENTER
132.65 257.6

SHL-7 [USAF]

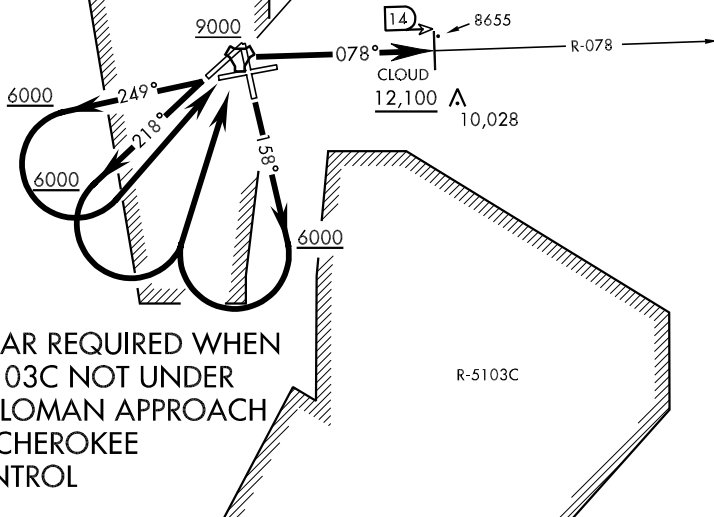
Rwy	Knots	60	120	180	240	300	360
16/25	V/V(fpm)	450	900	1350	1800	2250	2270
22	V/V(fpm)	440	880	1320	1760	2200	2640

Minimum climb to 12,100

BEAK B MOA

BEAK C MOA

HOLLOMAN
Chan 92 HMN



RADAR REQUIRED WHEN
R-5103C NOT UNDER
HOLLOMAN APPROACH
OR CHEROKEE
CONTROL

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on track 158°. When leaving 6000 turn right direct HMN TACAN, then proceed via HMN R-078 to CLOUD (HMN R-078/14), then via assigned routing. Cross HMN at or above 9000. Cross CLOUD at or above 12,100.

TAKE-OFF RWY 22: Climb on track 218°. When leaving 6000 turn left direct HMN TACAN, then proceed via HMN R-078 to CLOUD (HMN R-078/14), then via assigned routing. Cross HMN at or above 9000. Cross CLOUD at or above 12,100.

TAKE-OFF RWY 25: Climb on track 249°. When leaving 6000 turn left direct HMN TACAN, then proceed via HMN R-078 to CLOUD (HMN R-078/14), then via assigned routing. Cross HMN at or above 9000. Cross CLOUD at or above 12,100.

CLOUD-THREE ALPHA DEPARTURE (CLOUD3A•CLOUD)

ALAMOGORDO, NEW MEXICO

CLOUD-THREE BRAVO (RNAV) DEPARTURE (CLOUD3B•CLOUD)

ALAMOGORDO, NEW MEXICO

ATIS ★ 273.5
CLNC DEL
126.7 289.4
GND CON
127.05 275.8
HOLLOMAN TOWER ★
119.3 255.9
HOLLOMAN DEP CON
128.1 284.0
ALBUQUERQUE CENTER
132.65 257.6

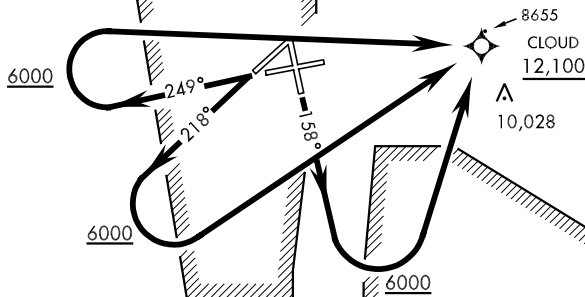
SHL-7 [USAF]

Rwy	Knots	60	120	180	240	300	360
16	V/V(fpm)	490	980	1470	1960	2450	2940
22/25	V/V(fpm)	500	1000	1500	2000	2500	3000

Minimum climb to 12,100

BEAK B MOA

BEAK C MOA



**RADAR REQUIRED WHEN
R-5103C NOT UNDER
HOLLOMAN APPROACH
OR CHEROKEE
CONTROL**

DME/DME RNP-0.3 NA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on track 158°. When leaving 6000 turn left direct CLOUD then via assigned routing. Cross CLOUD at or above 12,100.

TAKE-OFF RWY 22: Climb on track 218°. When leaving 6000 turn left direct CLOUD then via assigned routing. Cross CLOUD at or above 12,100.

TAKE-OFF RWY 25: Climb on track 249°. When leaving 6000 turn right direct CLOUD then via assigned routing. Cross CLOUD at or above 12,100.

CLOUD-THREE CHARLIE (RNAV) DEPARTURE (CLOUD3C•CLOUD)

ALAMOGORDO, NEW MEXICO

ATIS ★ 273.5
CLNC DEL
126.7 289.4
GND CON
127.05 275.8
HOLLOMAN TOWER ★
119.3 255.9
HOLLOMAN DEP CON
128.1 284.0
ALBUQUERQUE CENTER
132.65 257.6

SHL-7 [USAF]

Rwy	Knots	60	120	180	240	300	360
25	V/V(fpm)	500	1000	1500	2000	2500	3000

Minimum climb to 12,100

BEAK B MOA

BEAK C MOA

R-5107D

8655

CLOUD
12,100

A

10,028

249°

6000

RADAR REQUIRED WHEN
R-5103C NOT UNDER
HOLLOMAN APPROACH
OR CHEROKEE
CONTROL

R-5103C

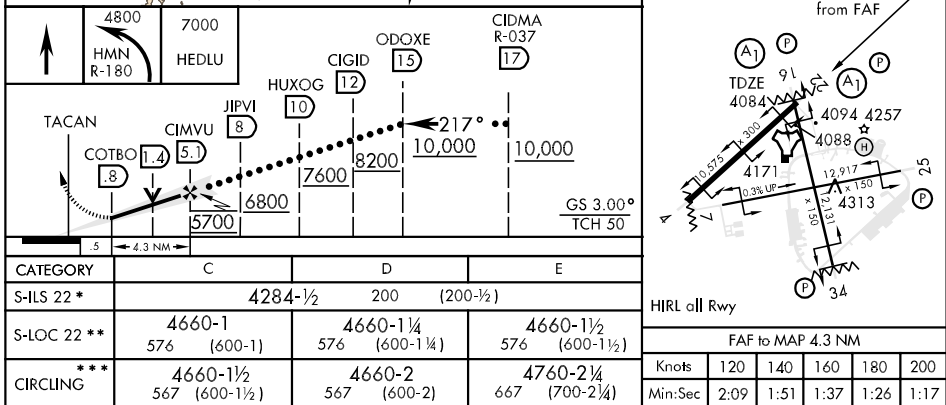
DME/DME RNP-0.3 NA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 25: Climb on track 249°. When leaving 6000 turn left direct CLOUD then via assigned routing. Cross CLOUD at or above 12,100.

SW-1, 14 JAN 2010 to 11 FEB 2010

ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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LOC I-HMN 111.7	APCH CRS 217°	Rwy Idg 10,575 TDZE 4084 Arpt Elev 4093
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JAL-7 [USAF]

HOLLOMAN AFB (KHMN)

▼ * When ALS inop, increase CAT CDE vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT C vis to $1\frac{1}{2}$ miles,
 CAT D vis to $1\frac{1}{4}$ miles, CAT E vis to 2 miles.

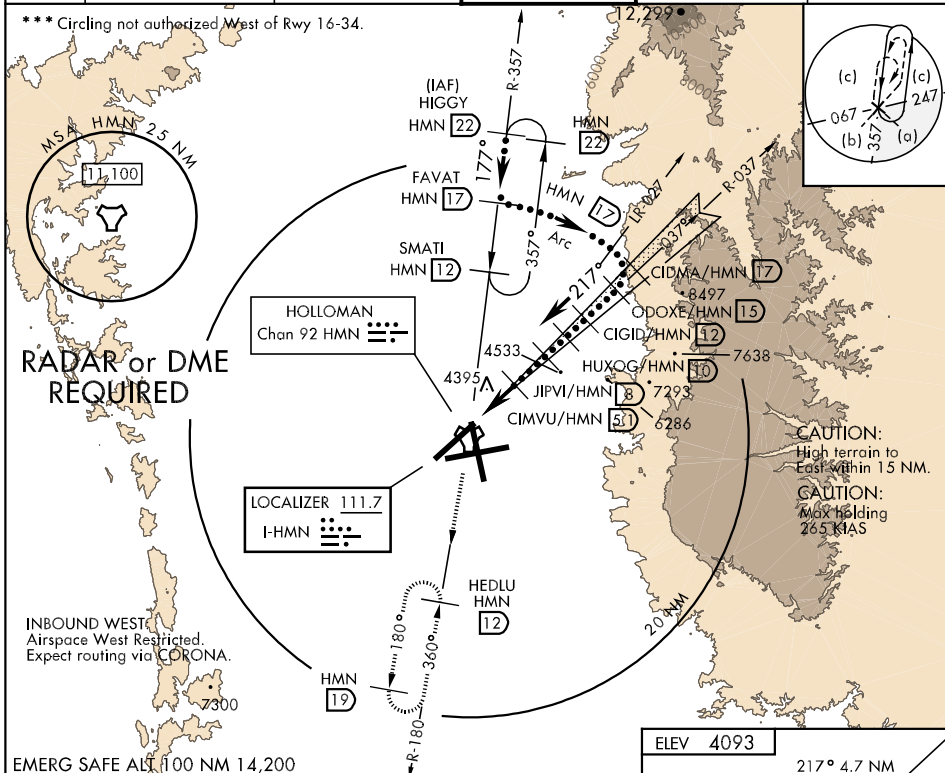
ALSF-1



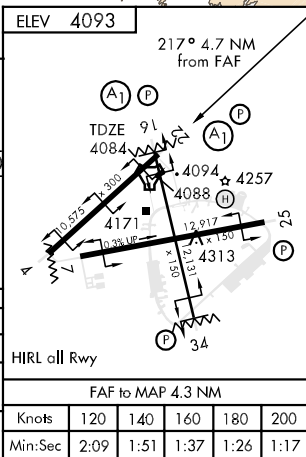
MISSED APPROACH: Climb straight ahead to 7000,
 passing 4800 turn left and intercept HMN R-180
 outbound to HEDLU and hold.

ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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*** Circling not authorized West of Rwy 16-34.



CATEGORY	C	D	E
S-ILS 22 *	4284-½	200 (200-½)	
S-LOC 22 **	4660-1 576 (600-1)	4660-1¼ 576 (600-1¼)	4660-1½ 576 (600-1½)
CIRCLING ***	4660-1½ 567 (600-1½)	4660-2 567 (600-2)	4760-2¼ 667 (700-2¼)



LOC I-MUK 108.9	APCH CRS 158°	Rwy Idg 12,131 TDZE 4083 Arpt Elev 4093	JAL-7 [USAF]	HOLLOMAN AFB (KHMN)
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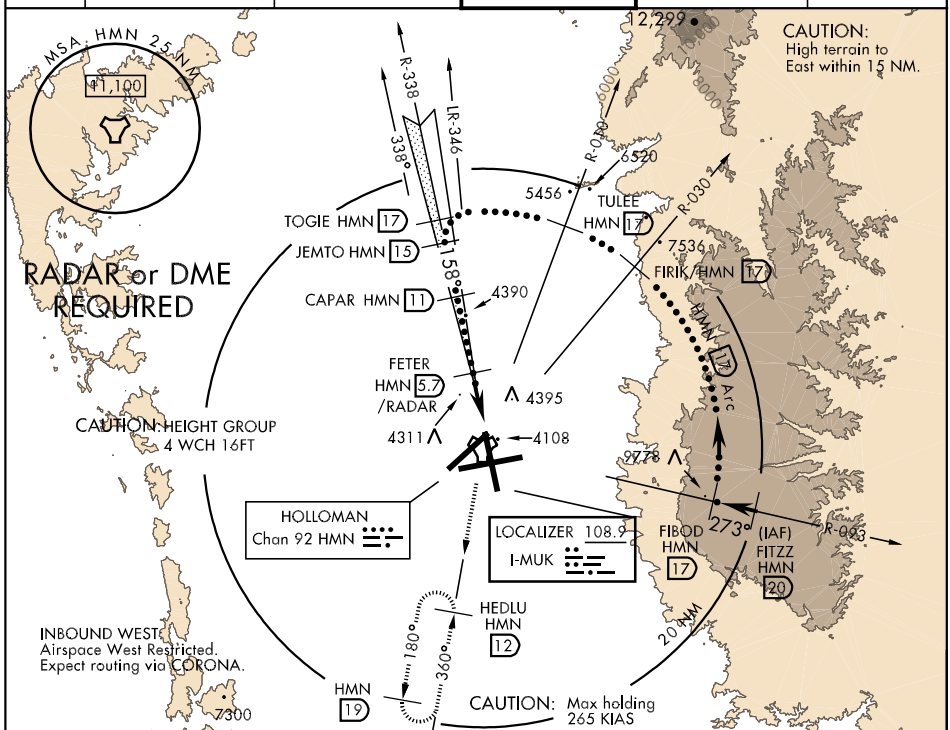
- ▼ * When ALS inop, increase CAT CDE vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT C vis to $1\frac{1}{4}$ miles,
 CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.
 *** Circling not authorized West of Rwy 16-34.

ALSF-1



MISSED APPROACH: Climb straight ahead to 7000, passing 4800 turn right and intercept HMN R-180 outbound to HEDLU and hold.

ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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EMERG SAFE ALT 100 NM 14,200																			
<table><tr><td>CATEGORY</td><td>C</td><td>D</td><td>E</td></tr><tr><td>S-ILS 16 *</td><td>4283-1/2</td><td>200 (200-1/2)</td><td></td></tr><tr><td>S-LOC 16 **</td><td>4580-3/4 497 (500-3/4)</td><td>4580-1 497 (500-1)</td><td>4580-1 1/4 497 (500-1 1/4)</td></tr><tr><td>CIRCLING ***</td><td>4660-1 1/2 567 (600-1 1/2)</td><td>4660-2 567 (600-2)</td><td>4760-2 1/4 667 (700-2 1/4)</td></tr></table>				CATEGORY	C	D	E	S-ILS 16 *	4283-1/2	200 (200-1/2)		S-LOC 16 **	4580-3/4 497 (500-3/4)	4580-1 497 (500-1)	4580-1 1/4 497 (500-1 1/4)	CIRCLING ***	4660-1 1/2 567 (600-1 1/2)	4660-2 567 (600-2)	4760-2 1/4 667 (700-2 1/4)
CATEGORY	C	D	E																
S-ILS 16 *	4283-1/2	200 (200-1/2)																	
S-LOC 16 **	4580-3/4 497 (500-3/4)	4580-1 497 (500-1)	4580-1 1/4 497 (500-1 1/4)																
CIRCLING ***	4660-1 1/2 567 (600-1 1/2)	4660-2 567 (600-2)	4760-2 1/4 667 (700-2 1/4)																

ELEV 4093

158° 5.8 NM from FAF

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LOC I-HMN **111.7**
APCH CRS **217°**
Rwy ldg **10,575**
TDZE **4084**
Arpt Elev **4093**

JAL-7 [USAF]

HOLLOMAN AFB (KHMN)



* When ALS inop, increase CAT CDE vis to $\frac{3}{4}$ mile.
** When ALS inop, increase CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles, CAT E vis to 2 miles.

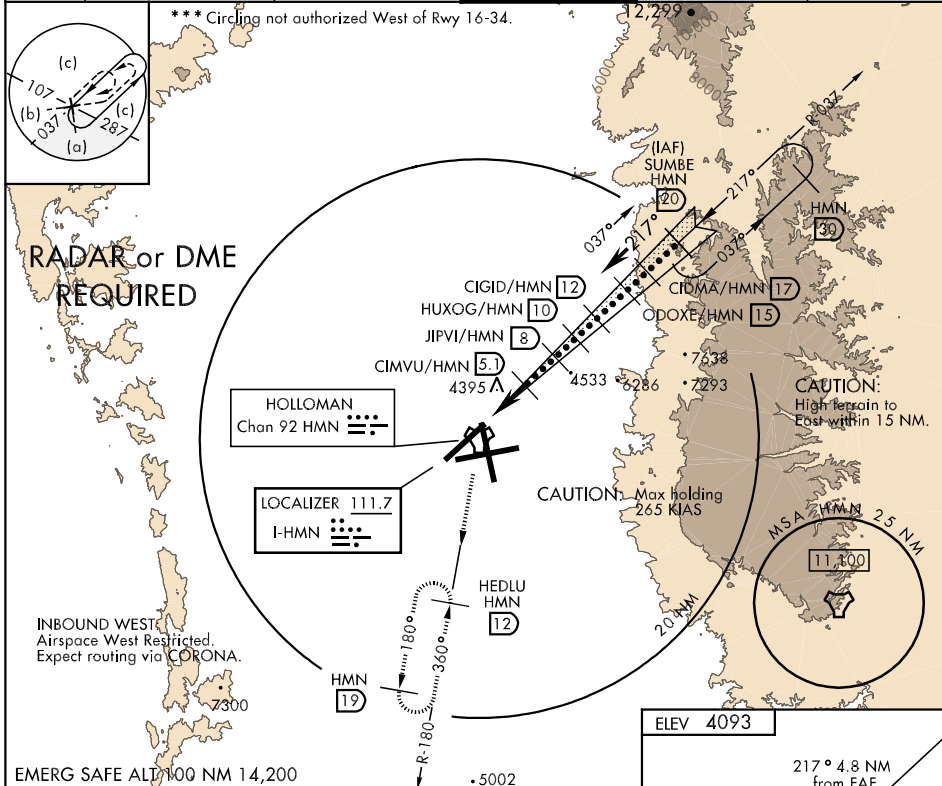
ALSF-1



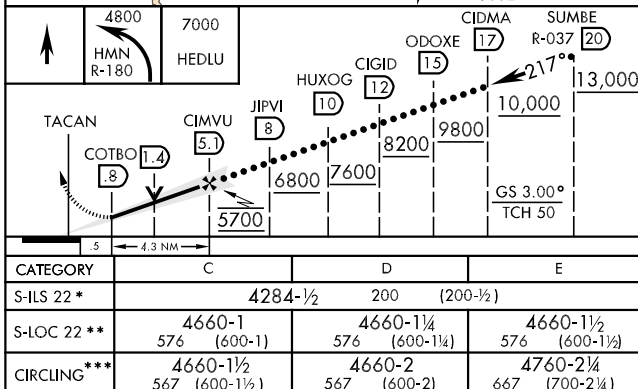
MISSED APPROACH: Climb straight ahead to 7000, passing 4800 turn left and intercept HMN R-180 outbound to HEDLU and hold.

ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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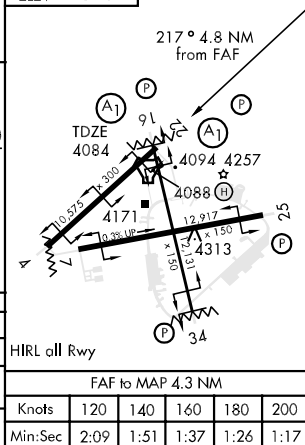
*** Circling not authorized West of Rwy 16-34.



EMERG SAFE ALT 100 NM 14,200



ELEV 4093



TACAN HMN Chan 92	APCH CRS 162°	Rwy ldg 12,131 TDZE Arpt Elev 4093
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JAL-7 [USAF]

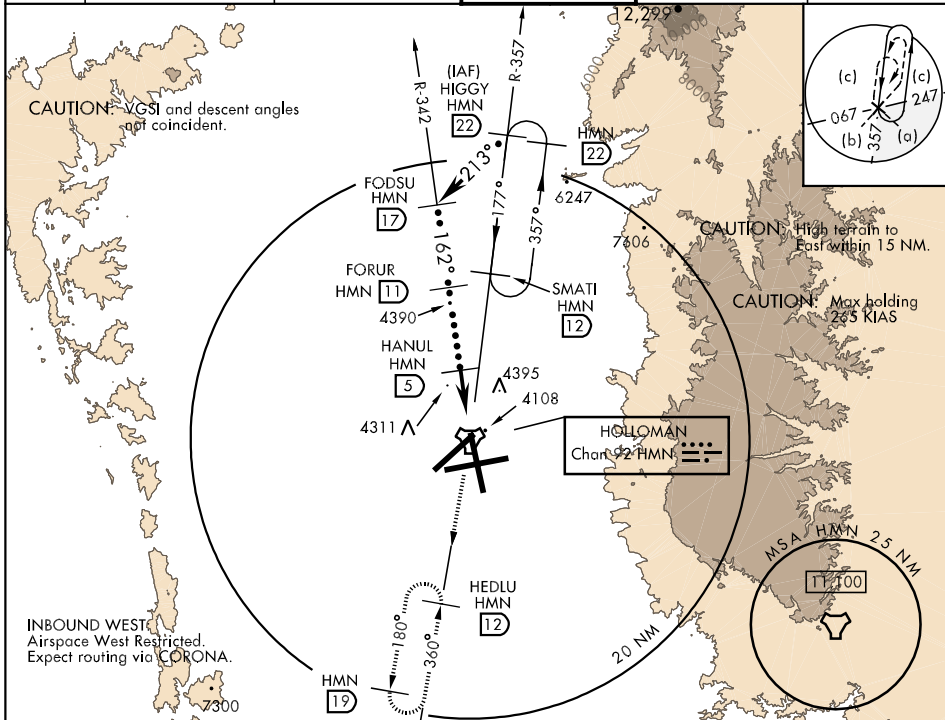
HOLLOMAN AFB (KHMN)

▼ *When ALS inop, increase CAT C vis to 1¼ miles,
CAT D vis to 2 miles, CAT E vis to 2¼ miles.
** Circling not authorized West of Rwy 16-34.

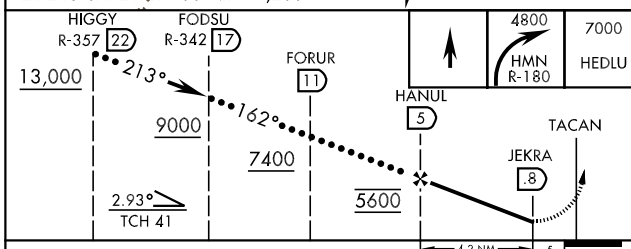


MISSED APPROACH: Climb straight ahead to 7000,
passing 4800 turn right and intercept HMN R-180
outbound to HEDLU and hold.

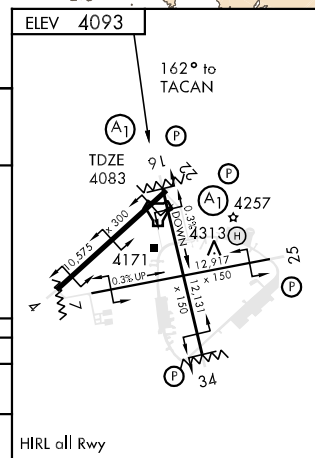
ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-16 *	4700-1¼ 617 (700-1¼)	4700-1½ 617 (700-1½)	4700-1¾ 617 (700-1¾)
CIRCLING **	4700-1¾ 607 (700-1¾)	4700-2 607 (700-2)	4760-2¼ 667 (700-2¼)



TACAN HMN Chan 92	APCH CRS 334°	Rwy Idg 12,131 TDZE 4058 Arpt Elev 4093
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JAL-7 [USAF]

HOLLOMAN AFB (KHMN)

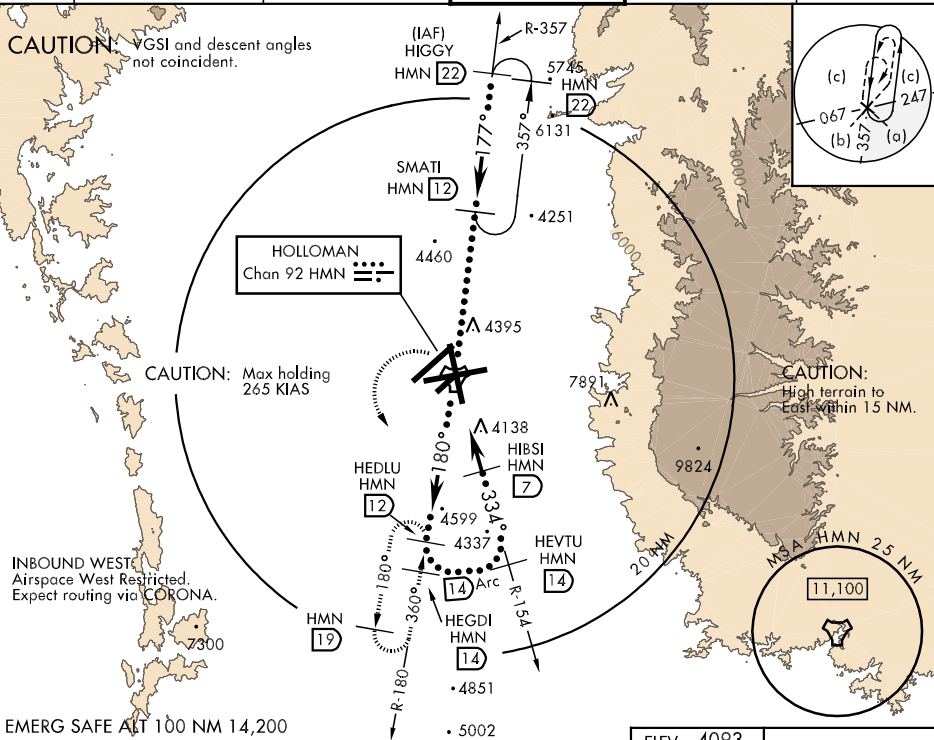


* Circling not authorized West of Rwy 16-34.

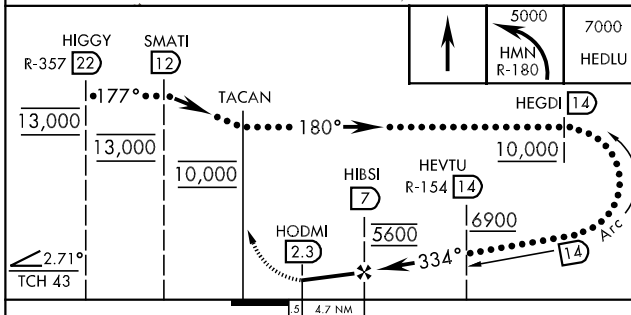
MISSED APPROACH: Climbing to 7000 fly straight ahead.
Upon reaching 5000 turn left to intercept HMN R-180
outbound to HEDLU and hold.

ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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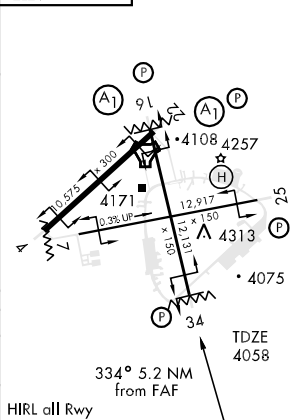
CAUTION: VGS and descent angles
not coincident.



EMERG SAFE ALT 100 NM 14,200



ELEV 4093



CATEGORY	C	D	E
S-34	4520-1¼ 462 (500-1¼)	4520-1½ 462 (500-1½)	4520-1¾ 462 (500-1¾)
CIRCLING *	4660-1½ 567 (600-1½)	4660-2 567 (600-2)	4760-2¼ 667 (700-2¼)

TACAN HMN Chan 92	APCH CRS 162°	Rwy Idg 12,131 TDZE 4083 Arpt Elev 4093
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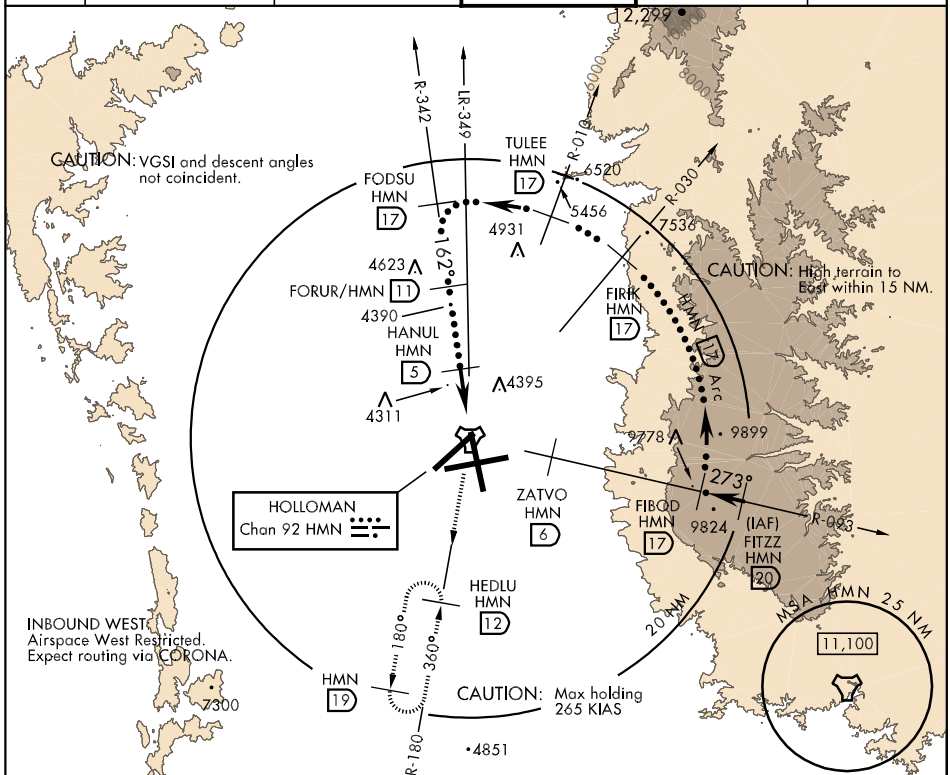
JAL-7 [USAF]

HOLLOMAN AFB (KHMN)

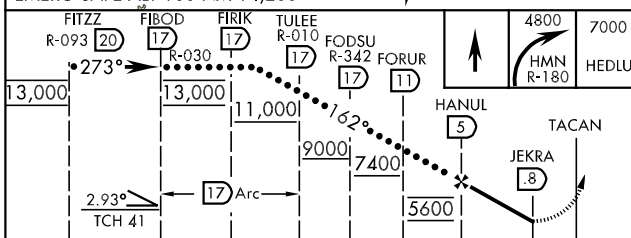
▼ * When ALS inop, increase CAT C vis to 1¼ miles, CAT D vis to 2 miles, CAT E vis to 2¼ miles. ** Circling not authorized West of Rwy 16-34.	ALS-1 (A1)
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MISSED APPROACH: Climb straight ahead to 7000, passing 4800 turn right and intercept HMN R-180 outbound to HEDLU and hold.

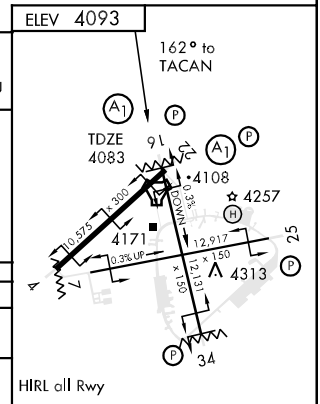
ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-16 *	4700-1¼ 617 (700-1¼)	4700-1½ 617 (700-1½)	4700-1¾ 617 (700-1¾)
CIRCLING **	4700-1¾ 607 (700-1¾)	4700-2 607 (700-2)	4760-2¼ 667 (700-2¼)

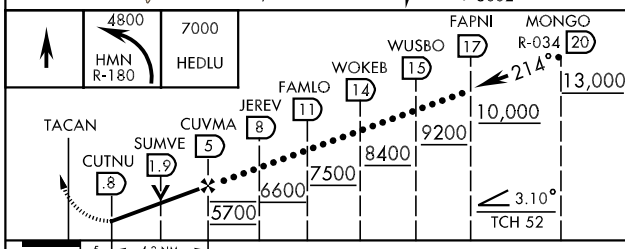


HOLLOMAN AFB (KHMN)

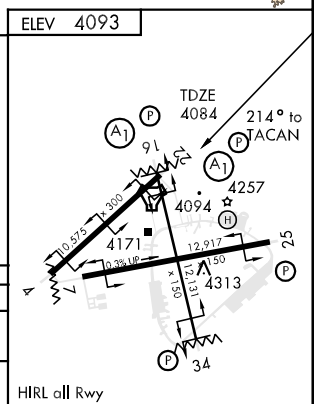
MISSED APPROACH: Climb straight ahead to 7000, passing 4800 turn left and intercept HMN R-180 outbound to HEDLU and hold.

SW-1, 14 JAN 2010 to 11 FEB 2010

EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-22 *	4700-1¼ 616 (700-1¼)	4700-1½ 616 (700-1½)	4700-1¾ 616 (700-1¾)
CIRCLING **	4700-1¾ 607 (700-1¾)	4700-2 607 (700-2)	4760-2¼ 667 (700-2¼)



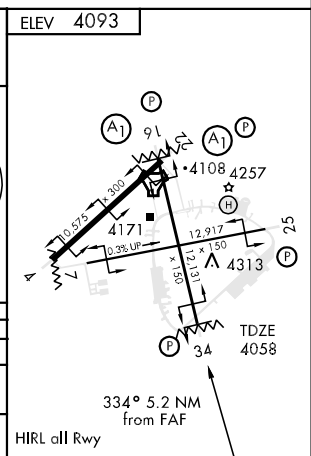
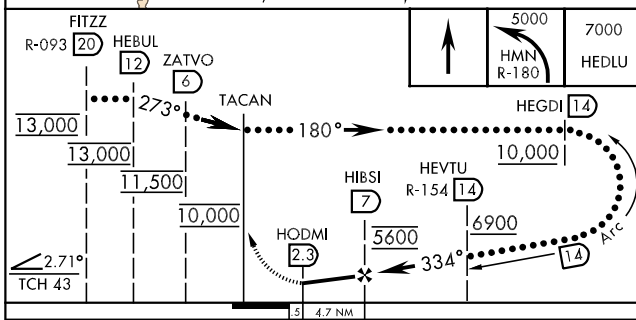
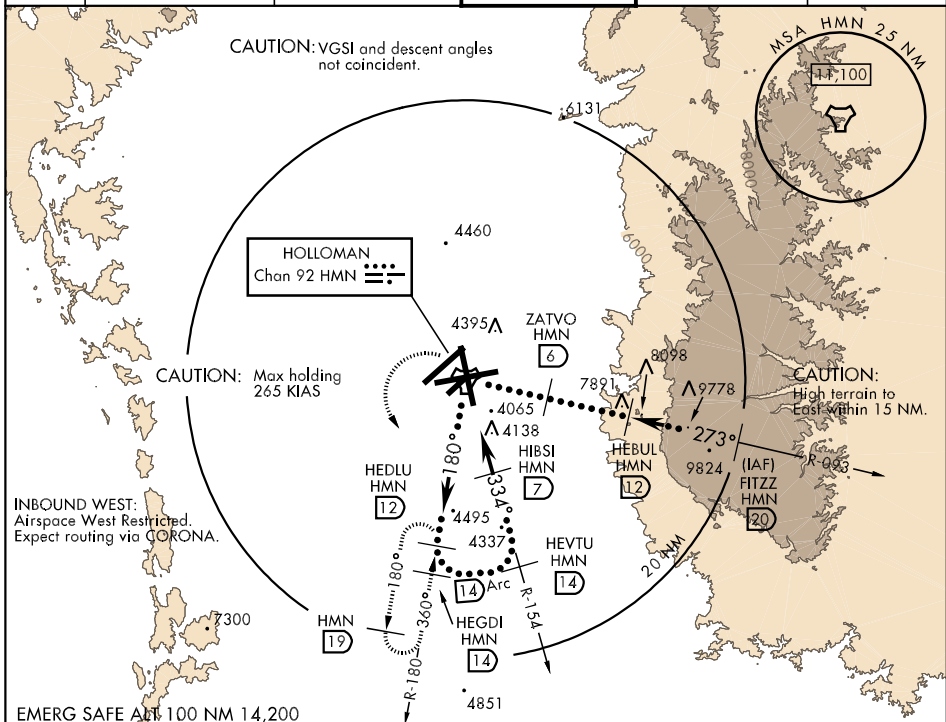
TACAN HMN Chan 92	APCH CRS 334°	Rwy Idg 12,131 TDZE 4058 Arpt Elev 4093
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JAL-7 [USAF]

HOLLOMAN AFB (KHMN)

▼ * Circling not authorized West of Rwy 16-34.	MISSED APPROACH: Climbing to 7000 fly straight ahead. Upon reaching 5000 turn left to intercept HMN R-180 to HEDLU and hold.
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ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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CATEGORY	C	D	E
S-34	4520-1¼ 462 (500-1¼)	4520-1½ 462 (500-1½)	4520-1¾ 462 (500-1¾)
CIRCLING *	4660-1½ 567 (600-1½)	4660-2 567 (600-2)	4760-2¼ 667 (700-2¼)

ALAMOGORDO, NEW MEXICO

ALBUQUERQUE
132 45 257 4

Rwy	Knots	60	120	180	240	300	360
34	V/V(fpm)	370	740	1110	1480	1850	2220

BEAK C MOA

12.000

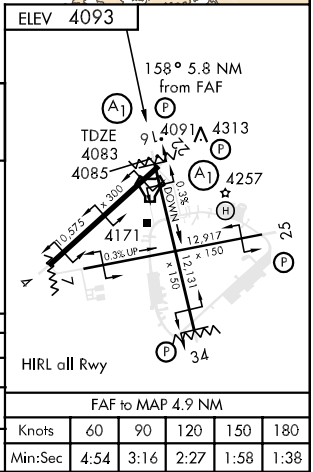
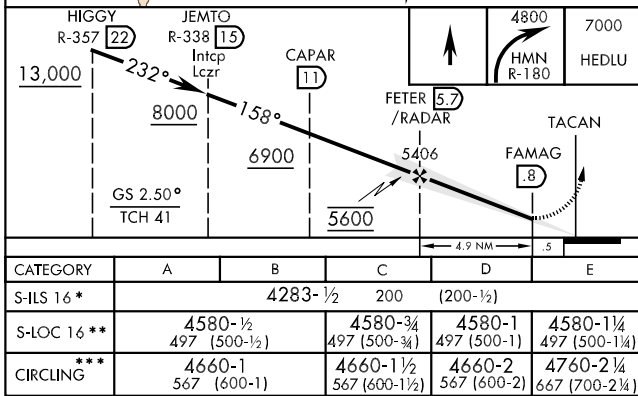
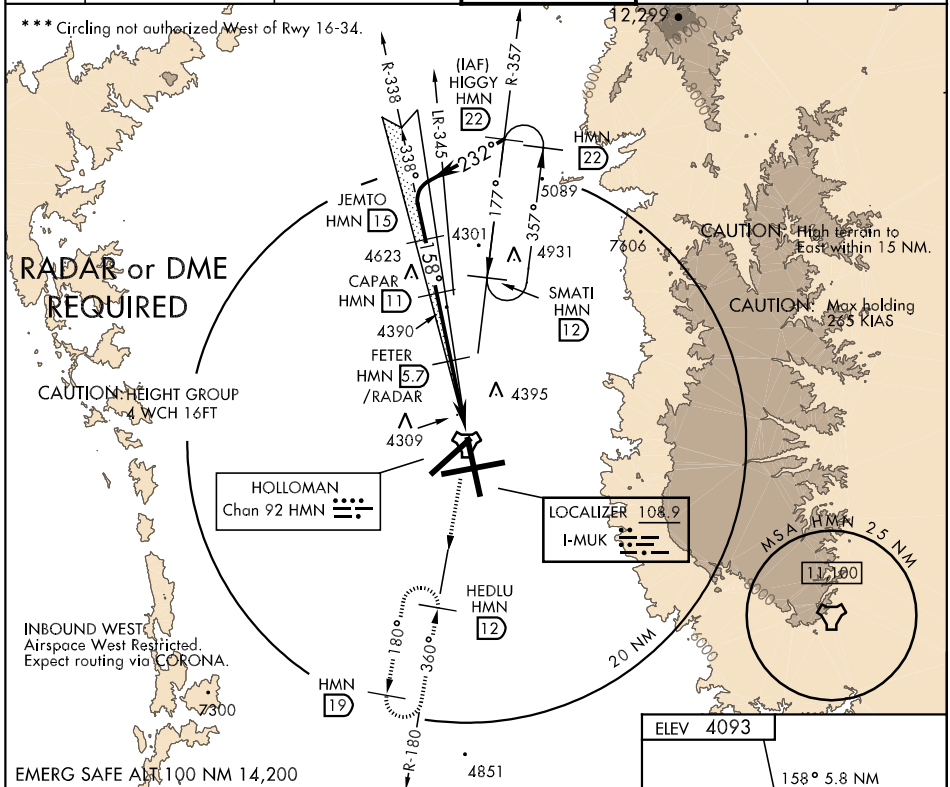
10,028

R-5103C

ALAMOGORDO, NEW MEXICO

SW-1, 14 JAN 2010 to 11 FEB 2010

LOC I-MUK 108.9	APCH CRS 158°	Rwy Idg 12,131 TDZE 4083 Arpt Elev 4093	AL-7 [USAF]	HOLLOMAN AFB (KHMN)			
▼ * When ALS inop, increase CAT ABCDE vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT AB vis to 1 mile, CAT C vis to $\frac{1}{4}$ miles, CAT D vis to $\frac{1}{2}$ miles, CAT E vis to $\frac{3}{4}$ miles.			ALSF-1 	MISSED APPROACH: Climb straight ahead to 7000, passing 4800 turn right and intercept HMN R-180 outbound to HEDLU and hold.			
ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8		CLNC DEL 126.7 289.4	



TACAN HMN Chan 92	APCH CRS 334°	Rwy Idg 12,131 TDZE 4058 Arpt Elev 4093
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AL-7 [USAF]

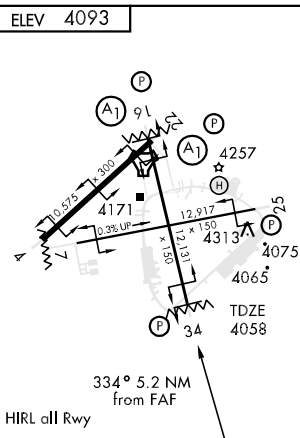
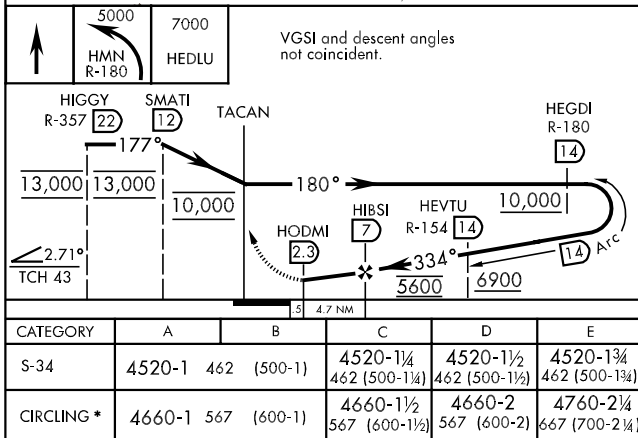
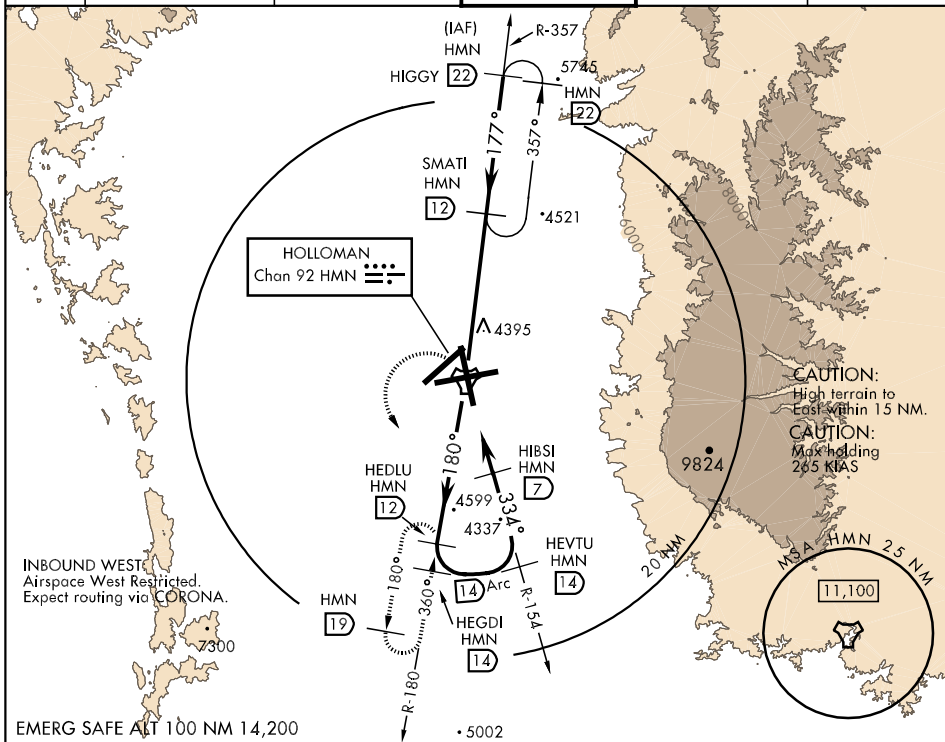
HOLLOMAN AFB (KHMN)



* Circling not authorized West of Rwy 16-34.

MISSED APPROACH: Climb straight ahead to 7000, passing 5000 turn left and intercept HMN R-180 outbound to HEDLU and hold.

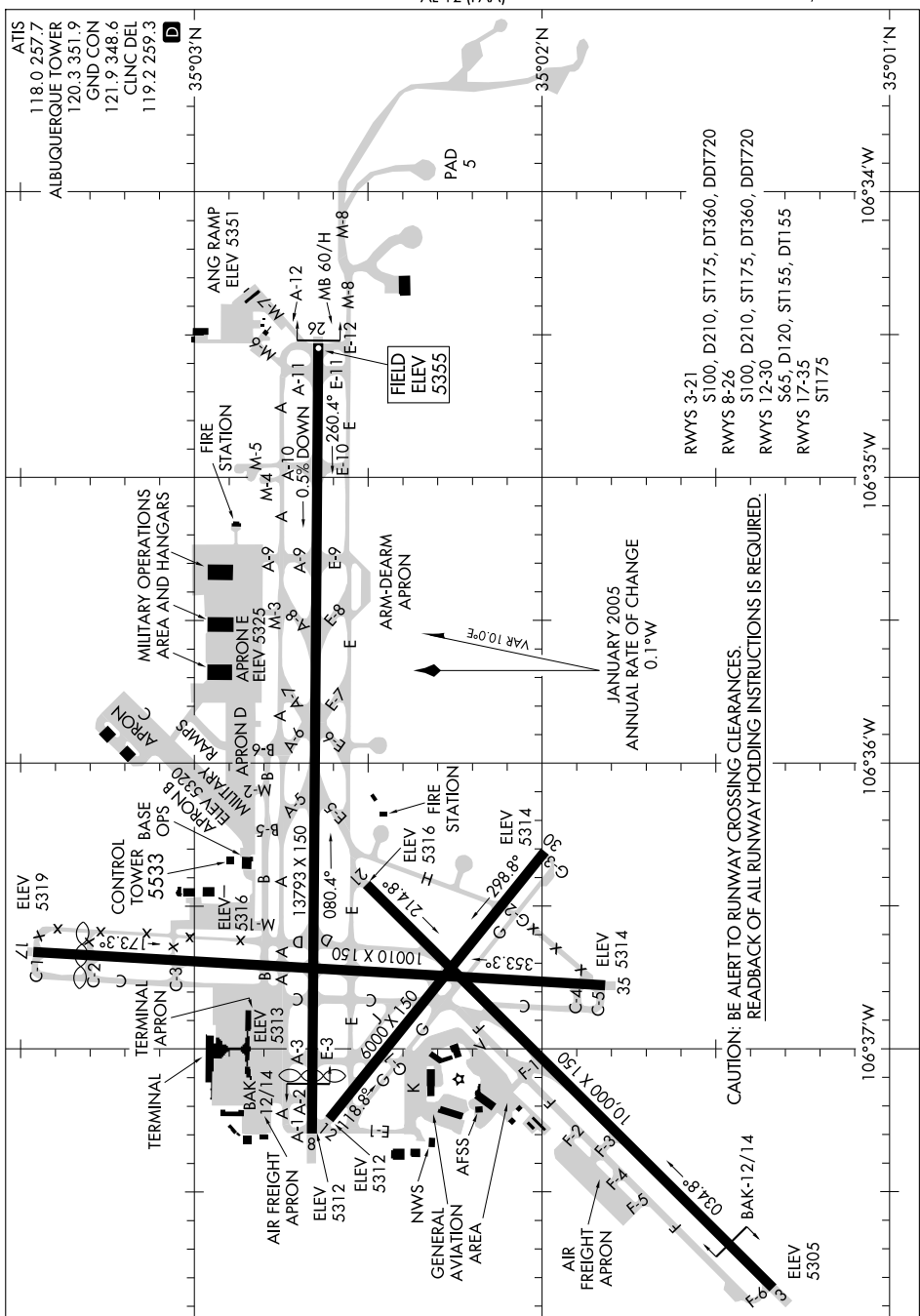
ATIS ★ 273.5	ALBUQUERQUE CENTER 132.65 257.6	HOLLOMAN APP CON 120.6 269.225	HOLLOMAN TOWER ★ 119.3 255.9	GND CON 127.05 275.8	CLNC DEL 126.7 289.4
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AIRPORT DIAGRAM

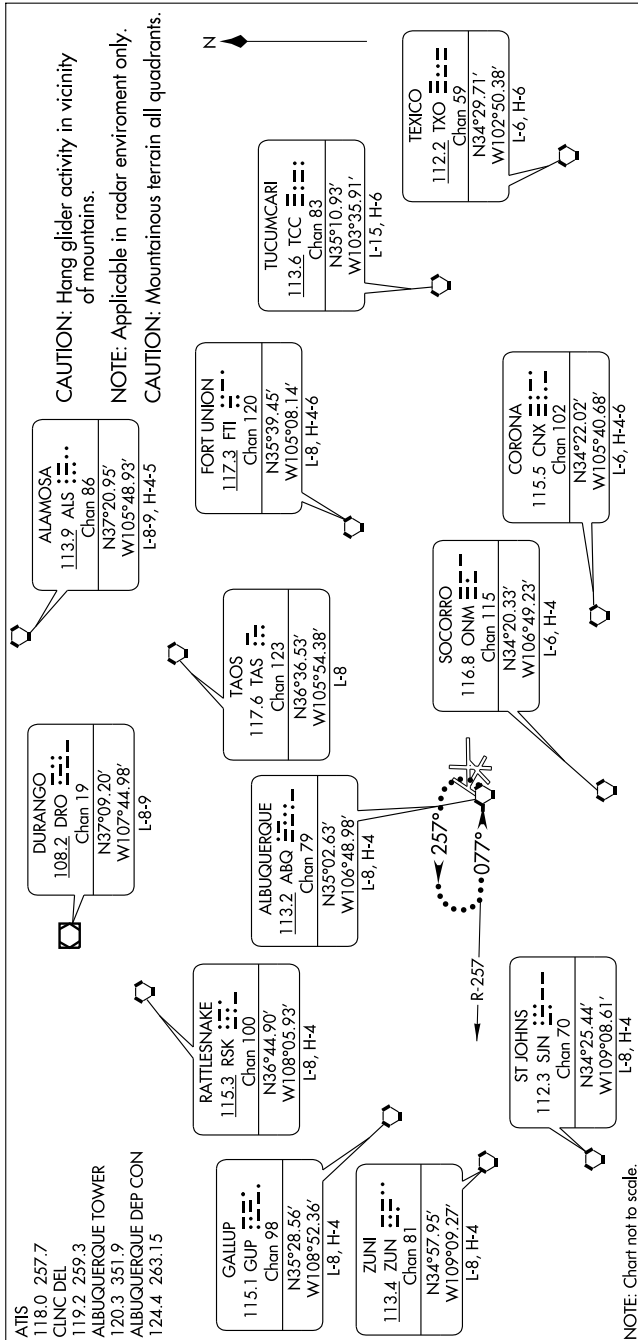
AL-12 (FAA)

ALBUQUERQUE INTL AIRPORT (ABQ)
ALBUQUERQUE, NEW MEXICO



ALBUQUERQUE TWO DEPARTURE

SL-12 (FAA)

ALBUQUERQUE INTL SUNPORT (ABQ)
ALBUQUERQUE, NEW MEXICO

DEPARTURE ROUTE DESCRIPTION

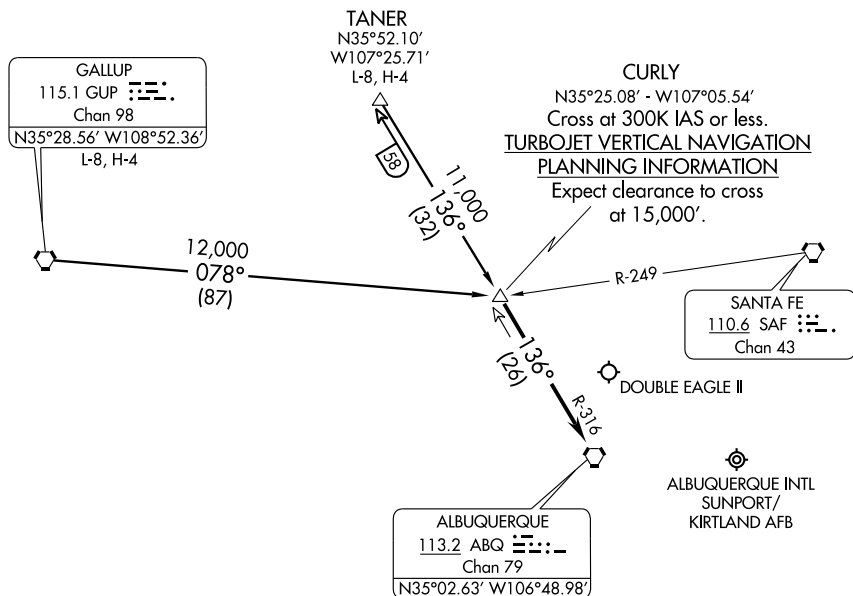
All aircraft fly assigned heading for vectors to filed/assigned route. When weather conditions are 5,000' ceiling and 7 miles visibility or greater, for informal noise abatement, request turboprop and turbojet aircraft, except STOL aircraft, making a left turn from Runway 8, to delay their turn until 13.5 DME from the ABQ VORTAC. Expect clearance to filed altitude/flight level 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure and a climb to 14,000 feet or higher has not been issued, proceed direct to ABQ VORTAC, climb in holding pattern to 14,000 feet, then proceed via assigned fix/route. If cleared above 14,000 feet, climb on assigned heading to 14,000 feet, then proceed via assigned fix/route.

ALBUQUERQUE APP CON

127.4 253.5

ATIS 118.0 257.7



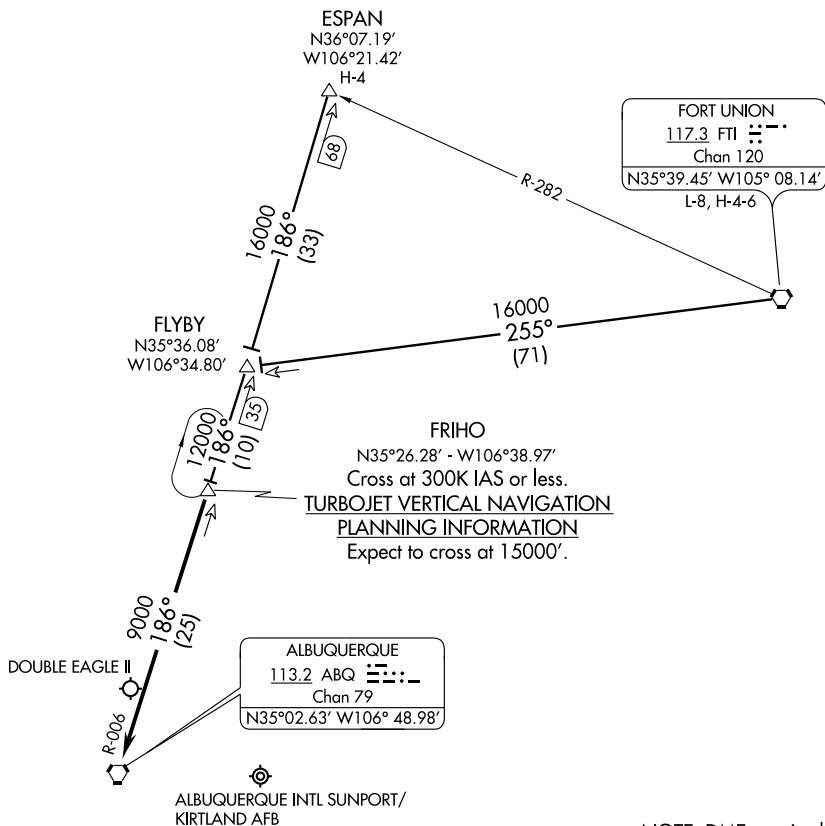
NOTE: This procedure applicable only to turboprop and turbojet aircraft operating at or above 15,000'.

NOTE: Chart not to scale.

GALLUP TRANSITION (GUP.CURLY2): From over GUP VORTAC via GUP R-078 to CURLY DME fix. Thence....

TANER TRANSITION (TANER.CURLY2): From over TANER INT via ABQ R-316 to CURLY DME fix. Thence....

....From over CURLY DME fix via ABQ R-316 to ABQ VORTAC. Expect vectors to final approach course after passing CURLY DME fix.



NOTE: DME required.

NOTE: Chart not to scale.

ESPAN TRANSITION (ESPAN.FRIHO4): From over ESPAN DME fix via ABQ R-006 to FRIHO DME fix, thence....

FORT UNION TRANSITION (FTI.FRIHO4): From over FTI VORTAC via FTI R-255 and ABQ R-006 to FRIHO DME fix, thence....

.... From over FRIHO DME fix via ABQ R-006 to ABQ VORTAC. Expect vectors to final approach course after passing FRIHO DME fix.

LOC I-SPT 111.9	APCH CRS 079°	Rwy ldg 12,793' TDZE Arpt Elev 5355
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JAL-12 [USAF]

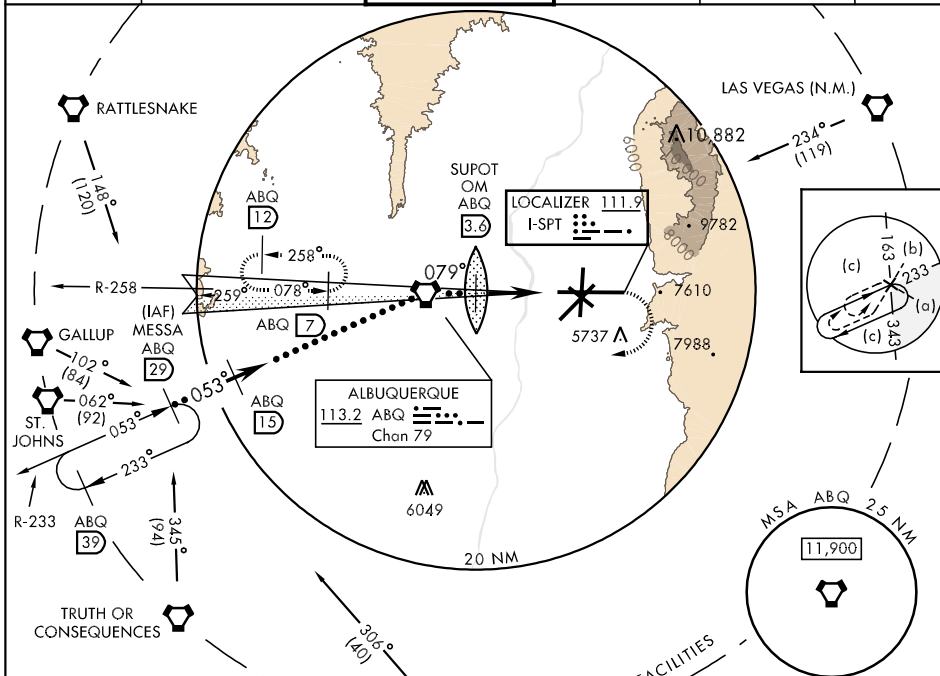
ALBUQUERQUE INTL SUNPORT (KIKR/KABQ)

▼ CAUTION: 5389' obst 750' left of rwy centerline abeam Rwy 8 thld.
CAUTION: Mountains rising to 10,000' 7 NM E of field.
Use ABQ VORTAC DME when on LOC course.
* Not authorized E of Rwy 17-35.



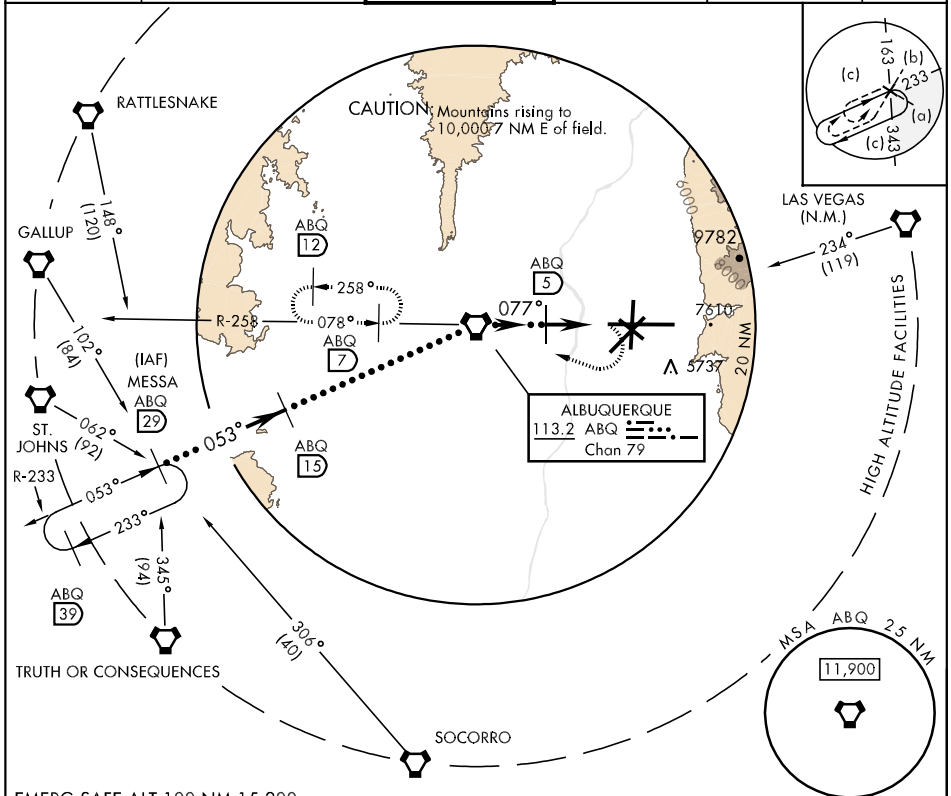
MISSED APPROACH: Climb to 5800 then climbing right turn to 8000 direct ABQ VORTAC and ABQ R-258 to 7 DME and hold.

ATIS 118.0 257.7	ALBUQUERQUE APP CON 123.9 354.1	ALBUQUERQUE TOWER 120.3 351.9	GND CON 121.9 348.6	CLNC DEL 119.2 259.3	ASR
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TACAN Chan 79	ABQ 077°	APCH CRS 077°	Rwy Idg 12,793 TDZE 5317 Arprt Elev 5355	JAL-12 [USAF]	ALBUQUERQUE INTL SUNPORT (KIKR/KABQ)
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▼ * Not authorized E of Rwy 17-35. MALSR			MISSED APPROACH: Climbing right turn to 8000 direct ABQ VORTAC and ABQ R-258 to 7 DME and hold.		
ATIS 118.0 257.7	ALBUQUERQUE APP CON 123.9 354.1	ALBUQUERQUE TOWER 120.3 351.9	GND CON 121.9 348.6	CLNC DEL 119.2 259.3	ASR



EMERG SAFE ALT 100 NM 15,200			
MESSA R-233 FL180	R-233 FL180	R-233 FL180	R-233 FL180
9000 8000 6500 4 NM 0.8			
CATEGORY	C	D	E
S-8	5700/40 383 (400-3/4)		
CIRCLING	5900-1 1/2 545 (600-1 1/2)	5940-2 585 (600-2)	*6040-2 1/2 685 (700-2 1/2)
S-ASR 8	5700/24 383 (400-1/2)	5700/50 383 (400-1)	

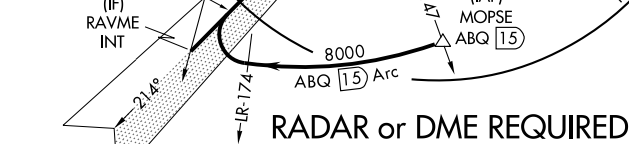
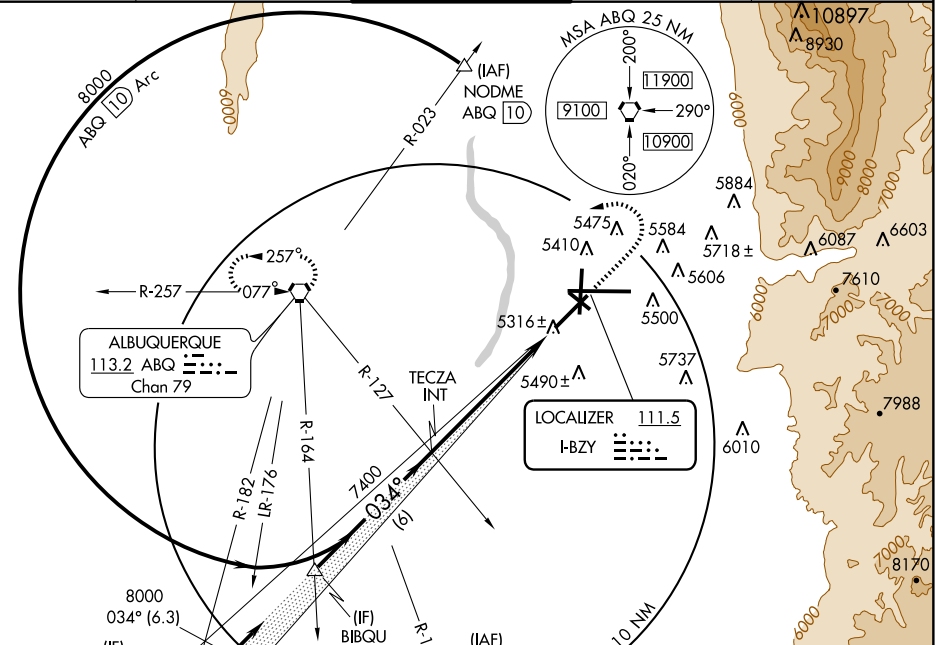
LOC I-BZY	APP CRS	Rwy Idg	10000
111.5	034°	TDZE	5312
		Apt Elev	5355

ILS or LOC RWY 3
ALBUQUERQUE INTL SUNPORT (ABQ)

For inoperative MALSRS, increase S-LOC 3 Cat D visibility to RVR 5000. Use of flight director or autopilot or heads up display guidance system (HGS) required.

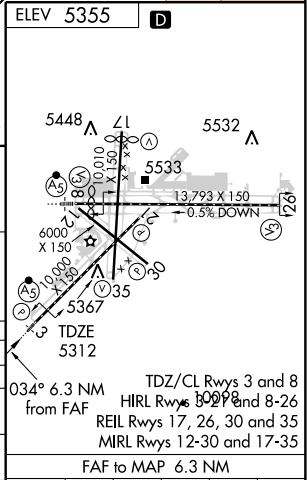
MALSRS MISSED APPROACH: Climb to 5900 then climbing left turn to 8000 direct ABQ VORTAC and hold, continue climb in hold to 8000.

ATIS	ALBUQUERQUE APP CON	ALBUQUERQUE TOWER	GND CON	CLNC DEL
118.0 257.7	123.9 354.1	120.3 351.9	121.9 348.6	119.2 259.3



BIBQU INT	TECZA INT	5900	8000	ABQ
8000	7400			113.2
GS 3.00°	TCH 60			
		6 NM	6.3 NM	

CATEGORY	A	B	C	D
S-ILS 3		5512/24	200 (200-½)	
S-LOC 3		5600/24	288 (300-½)	5600/40 288 (300-¾)
CIRCLING	5840-1	485 (500-1)	5900-1½ 545 (600-1½)	5920-2 565 (600-2)
SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED				
S-ILS 3		5512/18	200 (200-½)	



LOC/DME I-SPT 111.9 Chan 56	APP CRS 079°	Rwy Idg 12793 TDZE 5317 Apt Elev 5355
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ILS or LOC RWY 8
ALBUQUERQUE INTL SUNPORT (ABQ)

T For inoperative MALSR, increase Cat D S-LOC 8
ASR visibility to RVR 5000.

MALSR

MISSED APPROACH: Climb to 5800 then climbing right turn to 8000 direct ABQ VORTAC and hold.

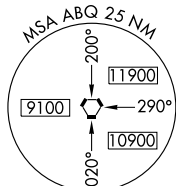
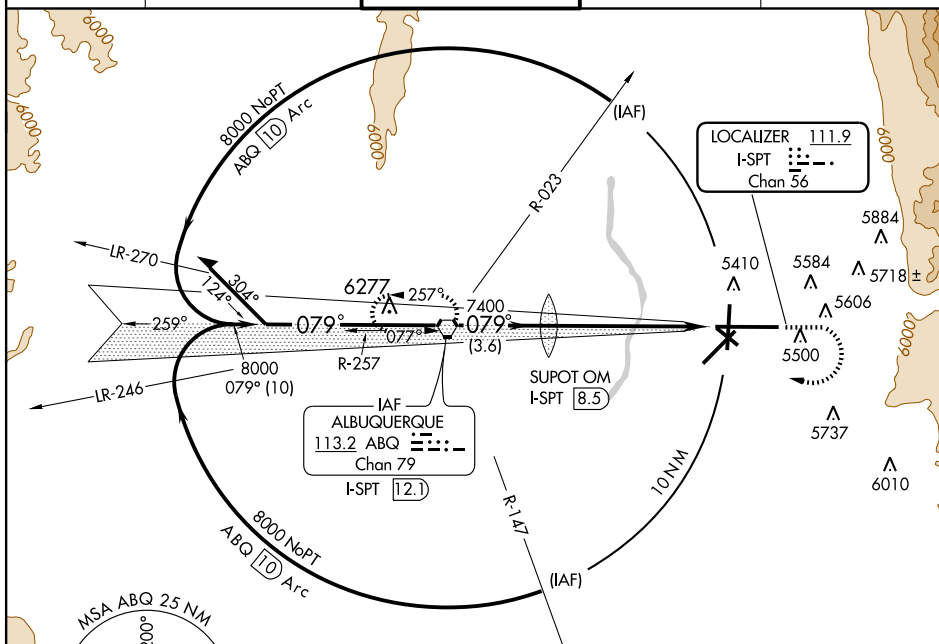
ATIS
118.0 257.7

ALBUQUERQUE APP CON
123.9 354.1

ALBUQUERQUE TOWER
120.3 351.9

GND CON
121.9 348.6

CLNC DEL
119.2 259.3



Remain within 10 NM

VORTAC 12.1 I-SPT 8000

259°

079°

8000

Use I-SPT DME when on LOC course.

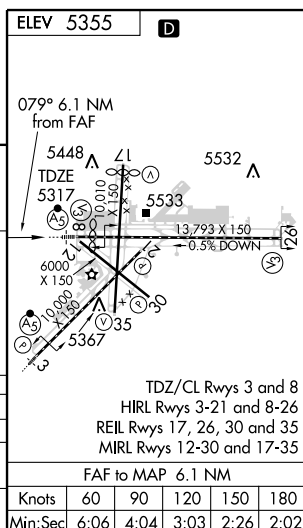
SUPT OM

5800 ↑	8000 ↗	ABQ  <u>113.2</u>
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1-S
2

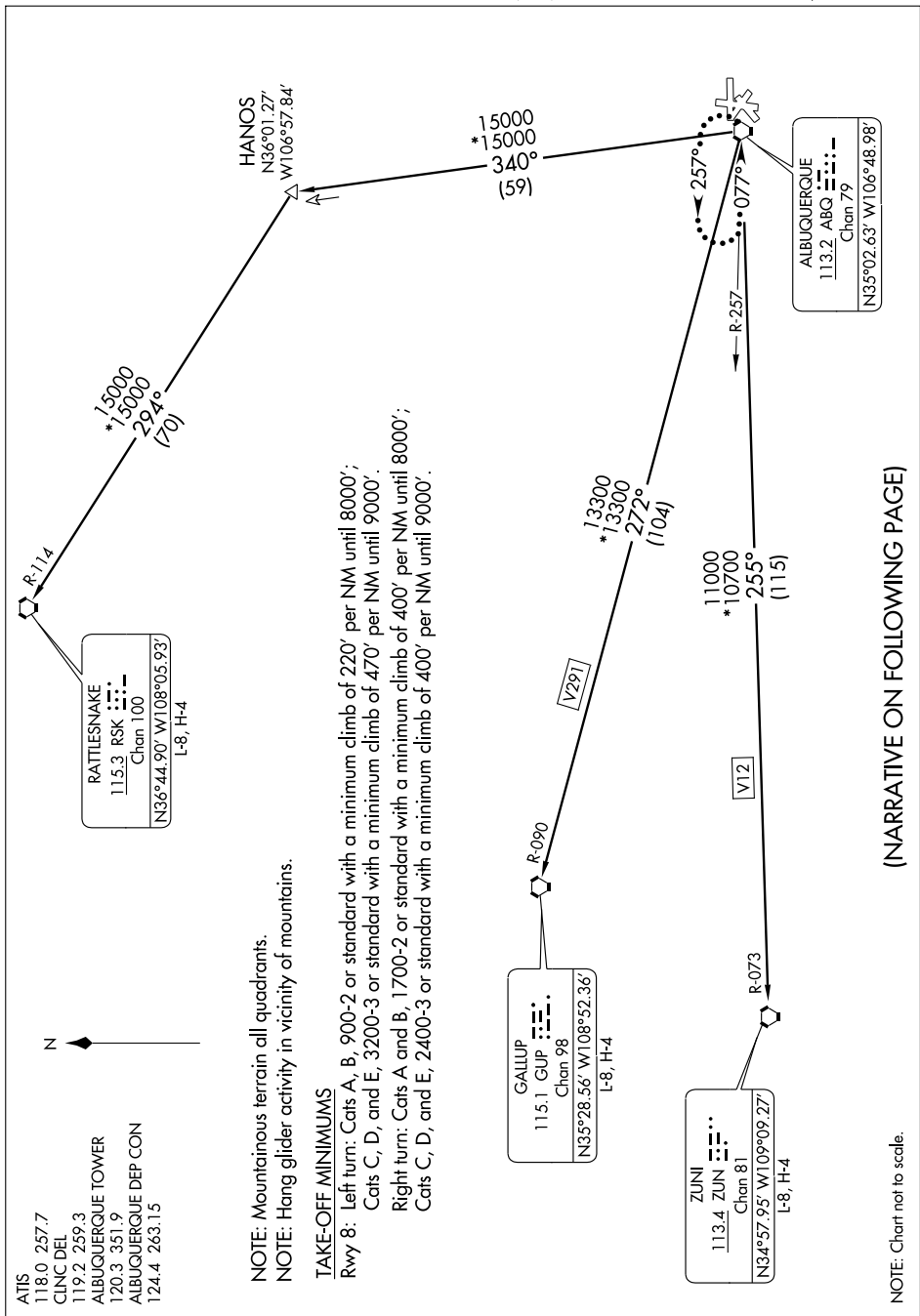
GS 3.00°
TCH 5.4

CATEGORY	A	B	C	D
S-ILS 8	5517/18 200 (200-½)			
S-LOC 8	5640/24 323 (300-½)			5640/40 323 (300-¾)
CIRCLING	5840-1 485 (500-1)		5900-1½ 545 (600-1½)	5940-2 585 (600-2)



LARGO TWO DEPARTURE

SL-12 (FAA)

ALBUQUERQUE INTL SUNPORT (ABQ)
ALBUQUERQUE, NEW MEXICO

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

All aircraft fly assigned heading for vectors to filed/assigned route.

Rwy 8 departures: Upon passing 5750' MSL, turn left/right to assigned heading. When weather conditions are 5000' ceiling and 7 miles visibility or greater, **FOR INFORMAL NOISE ABATEMENT**, request turboprop and turbojet aircraft, except STOL aircraft, making a left turn from runway 8, to delay their turn until 13.5 DME from the ABQ VORTAC. Expect clearance to filed altitude/flight level 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure and a climb to 14,000 feet or higher has not been issued, proceed direct to ABQ VORTAC, climb in the holding pattern to 14000, then proceed via assigned fix/route. If cleared above 14000 feet, climb on assigned heading to 14000 feet, then proceed via assigned fix/route.

GALLUP TRANSITION (LARGO2.GUP): From over ABQ VORTAC via ABQ R-272 and GUP R-090 to GUP VORTAC.

RATTLESNAKE TRANSITION (LARGO2.RSK): From over ABQ VORTAC via ABQ R-340 and RSK R-114 to RSK VORTAC.

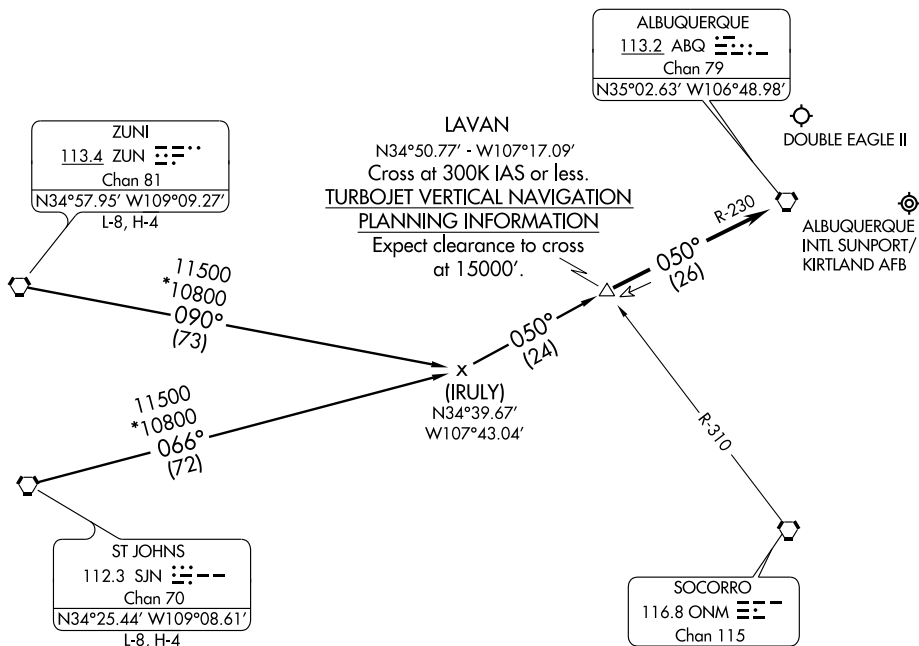
ZUNI TRANSITION (LARGO2.ZUN): From over ABQ VORTAC via ABQ R-255 and ZUN R-073 to ZUN VORTAC.

LAVAN THREE ARRIVAL

ST-12 (FAA)

ALBUQUERQUE, NEW MEXICO

ALBUQUERQUE APP CON
 123.9 354.1
 ALBUQUERQUE TOWER
 120.3 351.9
 GND CON
 121.9 348.6
 ATIS
 118.0 257.7



NOTE: Chart not to scale.

ST. JOHNS TRANSITION (SJN.LAVAN3): From over SJN VORTAC via SJN R-066 and ABQ R-230 to LAVAN DME/INT. Thence....

ZUNI TRANSITION (ZUN.LAVAN3): From over ZUN VORTAC via ZUN R-090 and ABQ R-230 to LAVAN DME/INT. Thence....

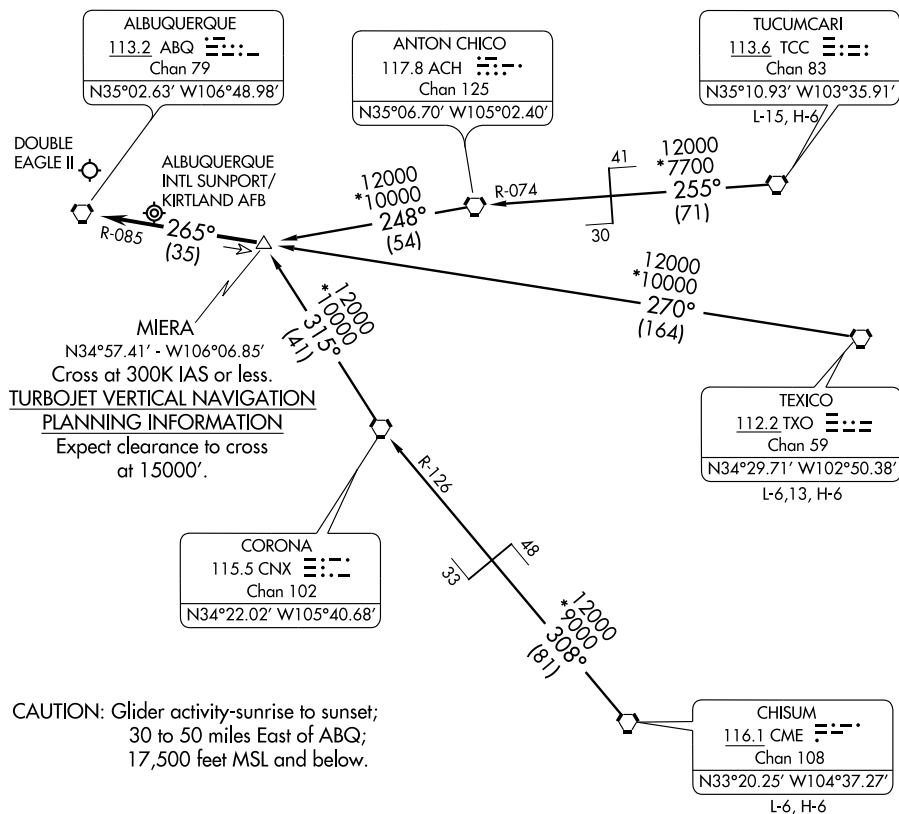
....From over LAVAN fix/INT via ABQ R-230 to ABQ VORTAC. Expect vectors to final approach course after passing LAVAN.

ALBUQUERQUE APP CON

123.9 354.1

ATIS

118.0 257.7



CHISUM TRANSITION (CME.MIERA2): From over CME VORTAC via CME R-308 and CNX R-126 to CNX VORTAC, then via CNX R-315 to MIERA DME fix. Thence....

TEXICO TRANSITION (TXO.MIERA2): From over TXO VORTAC via TXO R-270 and ABQ R-085 to MIERA DME fix. Thence....

TUCUMCARI TRANSITION (TCC.MIERA2): From over TCC VORTAC via TCC R-255 and ACH R-074 to ACH VORTAC, then via ACH R-248 to MIERA DME fix. Thence....

....From over MIERA DME fix via ABQ R-085 to ABQ VORTAC. Expect vectors to final approach course after passing MIERA DME fix.

RNAV (GPS) RWY 3
ALBUQUERQUE INTL SUNPORT (ABQ)

MALS

MISSED APPROACH: Climb to 8000 via 034° course to AXDEH WP then via 304° course to RUZGO WP then via 214° course to ABQ VORTAC.

FLIGHT PROFILE

Waypoints and Altitudes:

- LAVAN: 6850
- KAFMA: 11,000
- BIBQU: 7400
- TECZA: 5410
- RW03: 5584
- JEKRI: 5606
- Destination: 5355

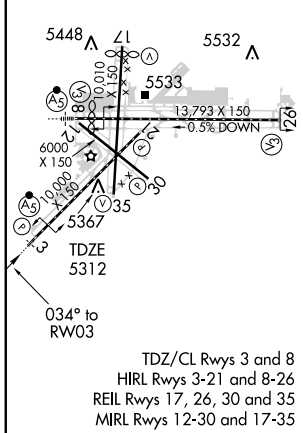
Distances and Angles:

- Lavan to KAFMA: 11,000, 074°, (10.5)
- KAFMA to BIBQU: 8000 NoPT, 075° (13.2)
- BIBQU to TECZA: 7400, 034° (6)
- TECZA to RW03: 5410, 034°
- RW03 to JEKRI: 5584, 304° (6.8)
- JEKRI to Destination: 5606, 228° (18.9)
- Destination to RW03: 5355, 034°

Other Information:

- Altitude: 5355
- Distance: 7 NM
- Direction: 034°
- Speed: 11,000
- Angle: 228°
- Distance: (18.9)

ELEV 5355



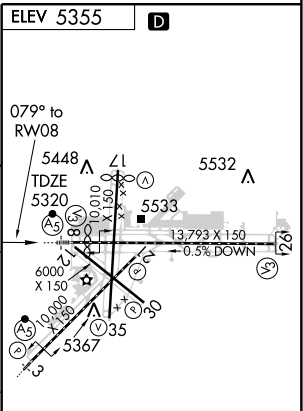
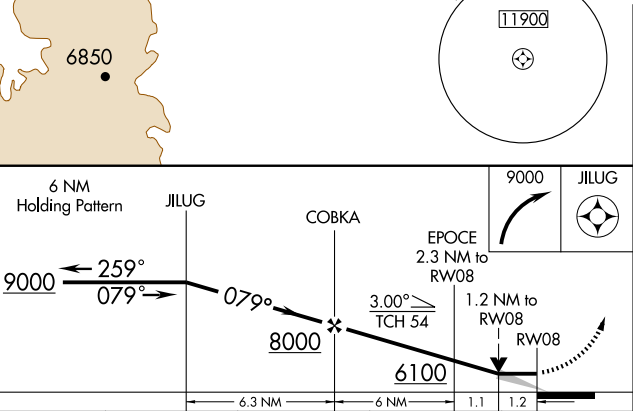
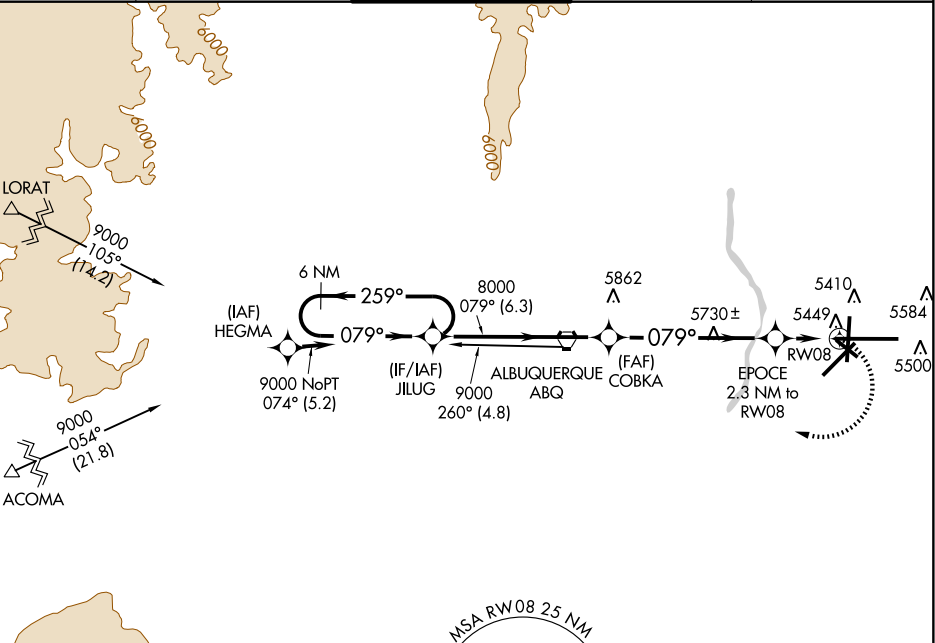
7 NM Holding Pattern			BIBQU		8000 ↑ 034°		AXDEH ✦ 304°		RUZGO ✦ 214°		ABQ ⬠	
8000 ← 214° 034° →			TECZA		*0.7 NM to RW03		RW03					
GS 3.00° TCH 60			7400		*LNAV only							
			6 NM		5.6 NM		0.7					
CATEGORY	A		B		C		D					
GLS PA DA	NA											
LNAV/VNAV	DA	5580-½		268 (300-½)		5580-¾		268 (300-¾)				
LNAV MDA		5600-½		288 (300-½)		5600-1		288 (300-1)				
CIRCLING	5840-1		485 (500-1)		5900-1½		5940-2					
					545 (600-1½)		585 (600-2)					

APP CRS	Rwy Idg	12793
079°	TDZE	5320
	Apt Elev	5355

RNAV (GPS) RWY 8
ALBUQUERQUE INTL SUNPORT (ABQ)

DME/DME RNP- 0.3 NA. ASR For inoperative MALS increase LNAV Cat D visibility to 1 1/4 . MALS MISSED APPROACH: Climbing right turn to 9000 direct JILUG and hold.
--

ATIS	ALBUQUERQUE APP CON	ALBUQUERQUE TOWER	GND CON	CLNC DEL
118.0 257.7	123.9 354.1	120.3 351.9	121.9 348.6	119.2 259.3



CATEGORY	A	B	C	D
LNAV MDA	5740/24 420 (400-1/2)	5740/40 420 (400-3/4)	5740/50 420 (400-1)	5740/50 420 (400-1)
CIRCLING	5840-1 485 (500-1)	5900-1 545 (600-1 1/2)	5920-2 565 (600-2)	5920-2 565 (600-2)

TDZ/CL Rwy 3 and 8
HIRL Rwy 3-21 and 8-26
REIL Rwy 17, 26, 30, and 35
MRL Rwy 12-30 and 17-35

APP CRS
172°

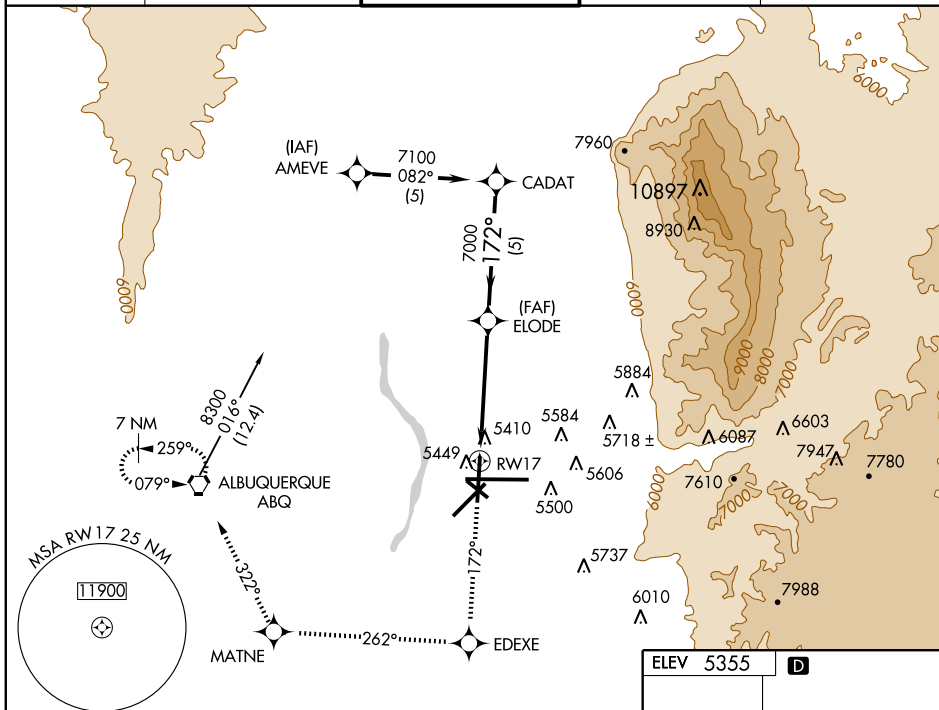
Rwy Idg	9110
TDZE	5321
Apt Elev	5355

RNAV (GPS) RWY 17
ALBUQUERQUE INTL SUNPORT (ABQ)

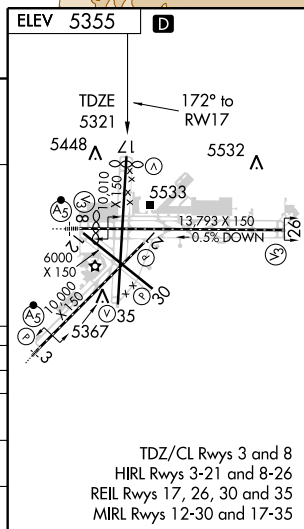
T	Baro-VNAV NA below -25° C (-13° F)
A NA	GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.
ASR	

MISSED APPROACH: Climb to 9000 via 172° course to EDEXE then via 262° course to MATNE then via 322° course to ABQ VORTAC and hold.

ATIS 118.0 257.7	ALBUQUERQUE APP CON 123.9 354.1	ALBUQUERQUE TOWER 120.3 351.9	GND CON 121.9 348.6	CLNC DEL 119.2 259.3
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Procedure Turn NA		CADAT		9000 ↑ 172°		EDEXE ↑ 262°		MATNE ↑ 322°		ABQ ↑ 322°	
GS 3.00° TCH 53											
CATEGORY	A		B		C		D				
GLS DA	NA										
LNAV/ VNAV	DA 5700-1¼ 379 (400-1¼)										
LNAV MDA	5780-1 459 (500-1)				5780-1¼ 459 (500-1¼)		5780-1½ 459 (500-1½)				
CIRCLING	5840-1¼ 485 (500-1¼)				5900-1½ 545 (600-1½)		5940-2 585 (600-2)				



WAAS

Chan **40011**

W35A

APP CRS

352°

Rwy Idg

9110

TDZE

5316

Apt Elev

5355

DME/DME RNP-0.3 NA

Baro-VNAV NA below -25° C (-13° F).

ASR

MISSED APPROACH: Climb to 9000 direct ELODE and via 262° track to MARAE and via 198° track to ABQ VORTAC and hold.

ATIS	ALBUQUERQUE APP CON	ALBUQUERQUE TOWER	GND CON	CLNC DEL
118.0 257.7	123.9 354.1	120.3 351.9	121.9 348.6	119.2 259.3

		Procedure Turn NA		9000	ELODE	262° trk	MARAE	198° trk	ABQ		
CETGO		EDEXE		7000		7000		352°			
GS 3.00° TCH 55		6 NM		4.1 NM		1 NM		* 1 NM to RW35			
		* LNAV only									
CATEGORY		A	B	C	D						
LPV DA		5570-¾		254 (300-¾)							
LNAV/VNAV DA		5620-1		304 (300-1)							
LNAV MDA		5680-1		364 (400-1)		5680-1¼		364 (400-1¼)			
CIRCLING		5840-1 485 (500-1)		5900-1½ 545 (600-1½)		5940-2		585 (600-2)			

SW-1. 14 JAN 2010 to 11 FEB 2010

VORTAC ABQ

113.2

Chan 79

APP CRS

077°

Rwy Idg

12793

TDZE

5320

Apt Elev

5355

V

A

ASR

For inoperative MALS, increase S-8 Cat A visibility to RVR 5000, and Cat E visibility to 3 miles.
Circling NA for Cat E east of Rwy 17/35.
EYECE FIX MINIMUMS: For inoperative MALS, increase S-8 Cat D visibility to RVR 6000, and Cat E visibility to 3 miles.

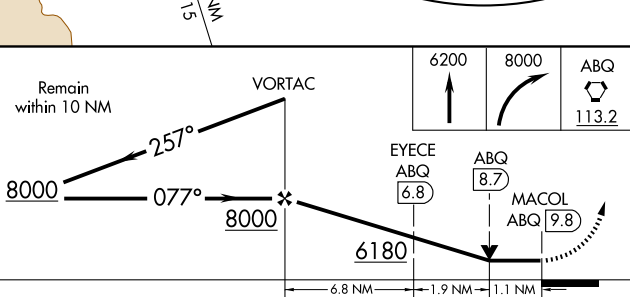
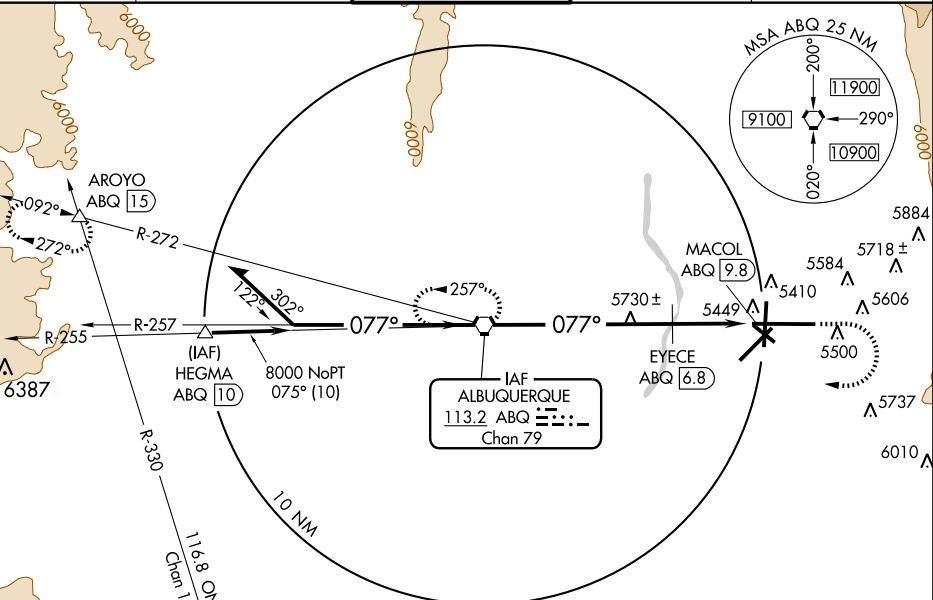
MALS

A5

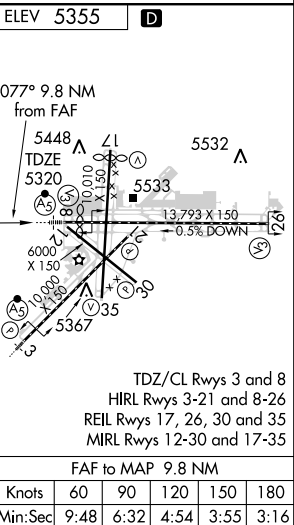
.....

MISSED APPROACH: Climb to 6200 then climbing right turn to 8000 direct ALBUQUERQUE VORTAC and hold (TACAN aircraft continue via ABQ R-272 to AROYO INT/ABQ 15 DME and hold W, RT, 092 inbound).

ATIS	ALBUQUERQUE APP CON	ALBUQUERQUE TOWER	GND CON	CLNC DEL
118.0 257.7	123.9 354.1	120.3 351.9	121.9 348.6	119.2 259.3



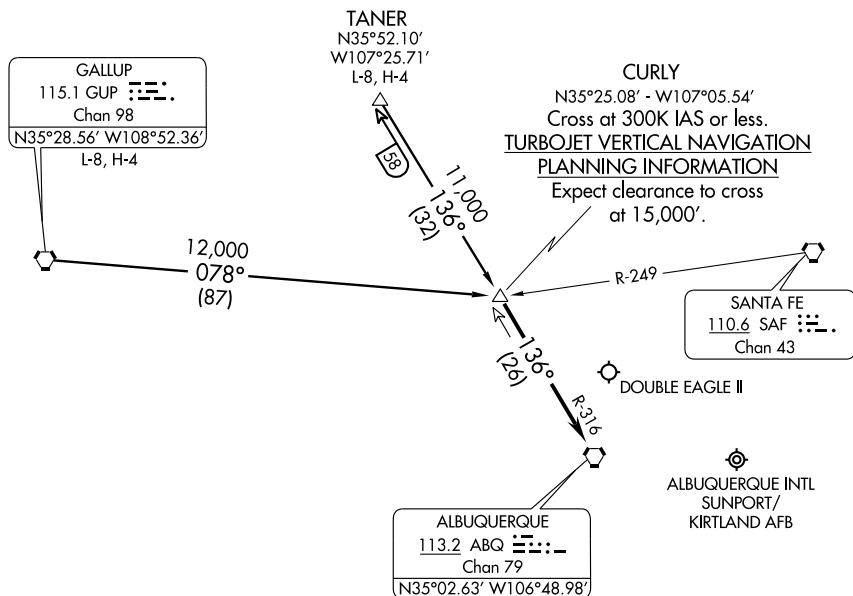
CATEGORY	A	B	C	D	E
S-8	6180/40	860 (900-¾)	6180-2 860 (900-2)	6180-2¼ 860 (900-2¼)	6180-2½ 860 (900-2½)
CIRCLING	6180-1 825 (900-1)	6180-1¼ 825 (900-1¼)	6180-2½ 825 (900-2½)	6180-2¾ 825 (900-2¾)	6180-3 825 (900-3)
EYECE FIX MINIMUMS					
S-8	5700/24	380 (400-½)	5700/50 380 (400-1)	6180-2½ 860 (900-2½)	
CIRCLING	5840-1	485 (500-1)	5900-1½ 545 (600-1½)	5920-2 565 (600-2)	6180-3 825 (900-3)



ALBUQUERQUE APP CON

127.4 253.5

ATIS 118.0 257.7



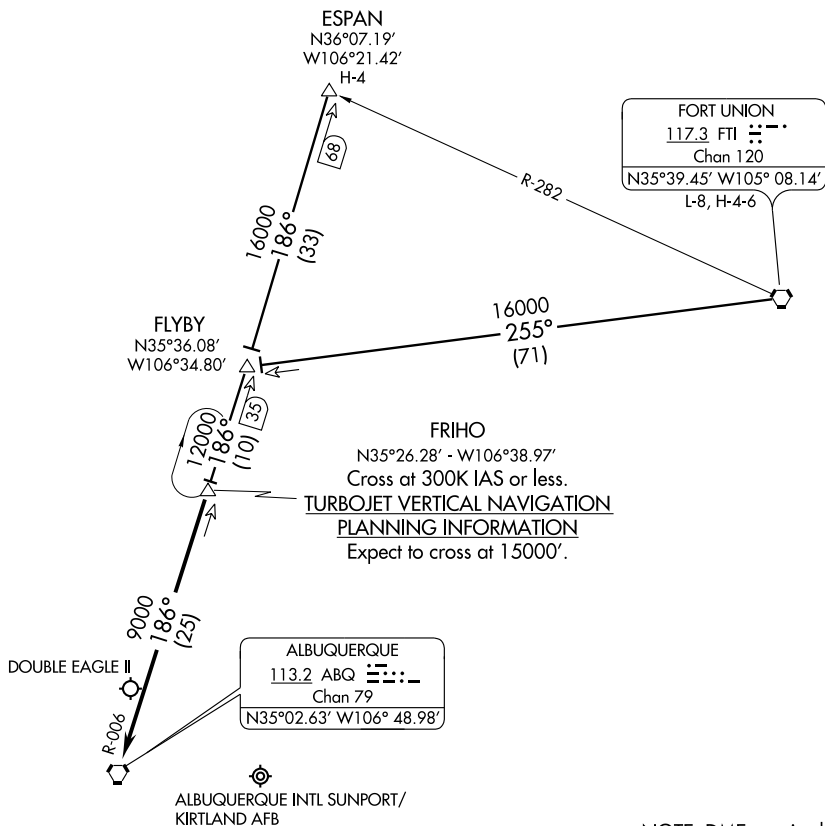
NOTE: This procedure applicable only to turboprop and turbojet aircraft operating at or above 15,000'.

NOTE: Chart not to scale.

GALLUP TRANSITION (GUP.CURLY2): From over GUP VORTAC via GUP R-078 to CURLY DME fix. Thence....

TANER TRANSITION (TANER.CURLY2): From over TANER INT via ABQ R-316 to CURLY DME fix. Thence....

....From over CURLY DME fix via ABQ R-316 to ABQ VORTAC. Expect vectors to final approach course after passing CURLY DME fix.



NOTE: DME required.

NOTE: Chart not to scale.

ESPAN TRANSITION (ESPAN.FRIHO4): From over ESPAN DME fix via ABQ R-006 to FRIHO DME fix, thence....

FORT UNION TRANSITION (FTI.FRIHO4): From over FTI VORTAC via FTI R-255 and ABQ R-006 to FRIHO DME fix, thence....

.... From over FRIHO DME fix via ABQ R-006 to ABQ VORTAC. Expect vectors to final approach course after passing FRIHO DME fix.

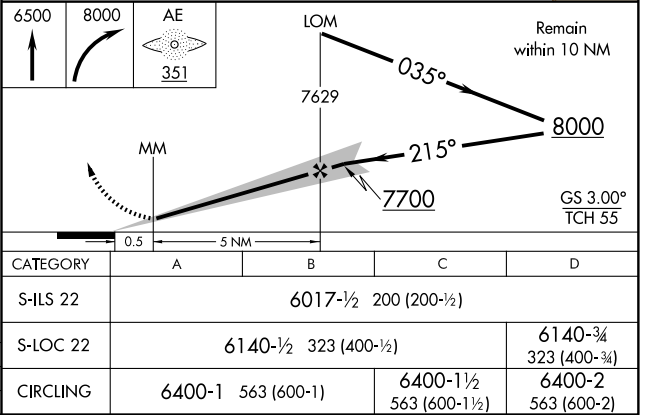
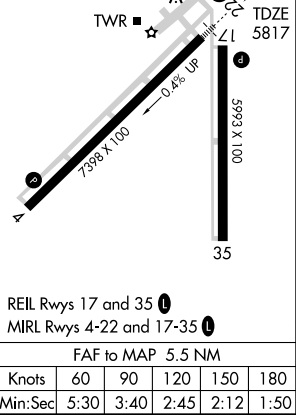
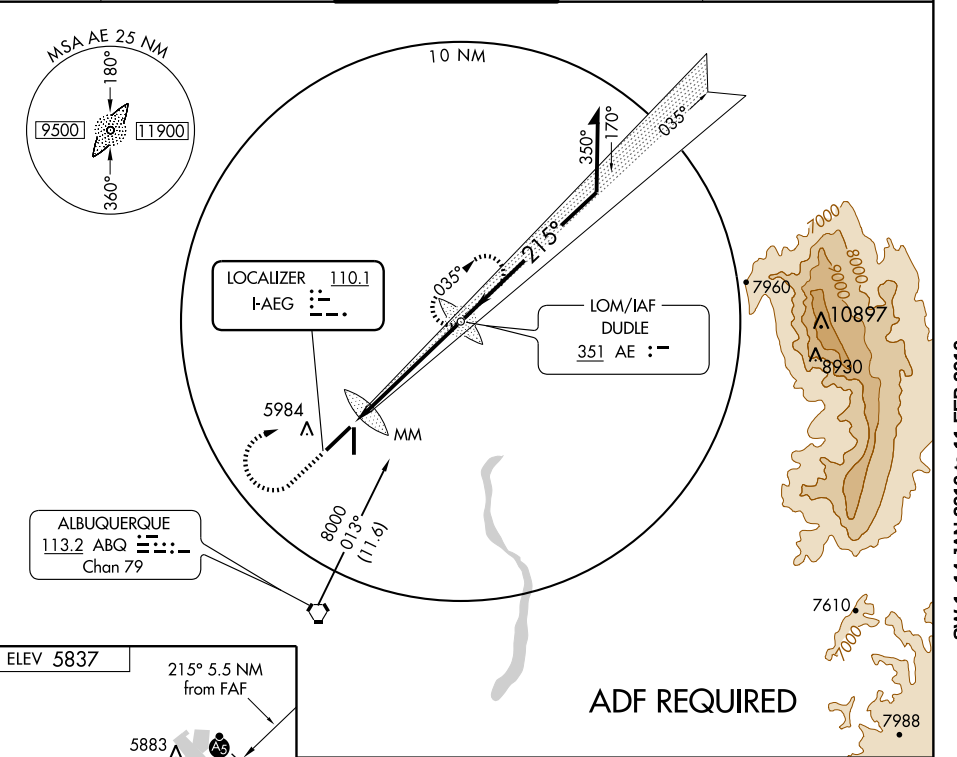
Autopilot coupled approaches not authorized.

For inoperative MALS, increase S-LOC 22 Cat D visibility to 1.

MALS

MISSED APPROACH: Climb to 6500 then climbing right turn to 8000 direct DUDLE LOM and hold.

AWOS-3 119.025	ALBUQUERQUE APP CON 127.4 253.5	DOUBLE EAGLE II TOWER ★ 120.15 (CTAF) 0	GND CON 121.625	ALBUQUERQUE CLNC DEL 124.8
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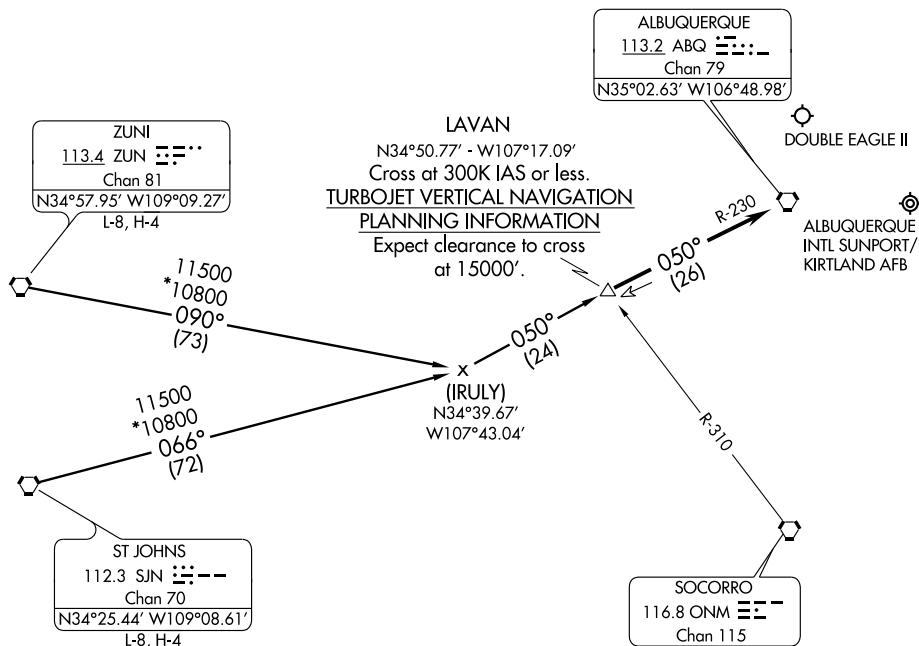


LAVAN THREE ARRIVAL

ST-12 (FAA)

ALBUQUERQUE, NEW MEXICO

ALBUQUERQUE APP CON
123.9 354.1
ALBUQUERQUE TOWER
120.3 351.9
GND CON
121.9 348.6
ATIS
118.0 257.7



NOTE: Chart not to scale.

ST. JOHNS TRANSITION (SJN.LAVAN3): From over SJN VORTAC via SJN R-066 and ABQ R-230 to LAVAN DME/INT. Thence....

ZUNI TRANSITION (ZUN.LAVAN3): From over ZUN VORTAC via ZUN R-090 and ABQ R-230 to LAVAN DME/INT. Thence....

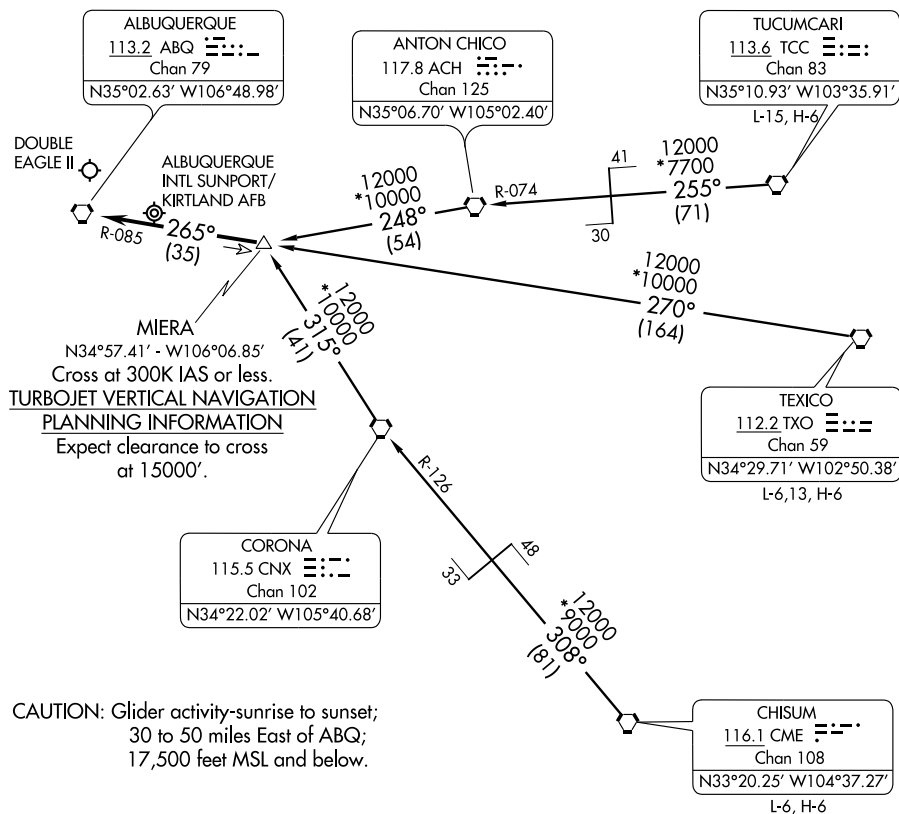
....From over LAVAN fix/INT via ABQ R-230 to ABQ VORTAC. Expect vectors to final approach course after passing LAVAN.

ALBUQUERQUE APP CON

123.9 354.1

ATIS

118.0 257.7



CHISUM TRANSITION (CME.MIERA2): From over CME VORTAC via CME R-308 and CNX R-126 to CNX VORTAC, then via CNX R-315 to MIERA DME fix. Thence....

TEXICO TRANSITION (TXO.MIERA2): From over TXO VORTAC via TXO R-270 and ABQ R-085 to MIERA DME fix. Thence....

TUCUMCARI TRANSITION (TCC.MIERA2): From over TCC VORTAC via TCC R-255 and ACH R-074 to ACH VORTAC, then via ACH R-248 to MIERA DME fix. Thence....

....From over MIERA DME fix via ABQ R-085 to ABQ VORTAC. Expect vectors to final approach course after passing MIERA DME fix.

APP CRS	Rwy Idg	7398
215°	TDZE	5817
	Apt Elev	5837

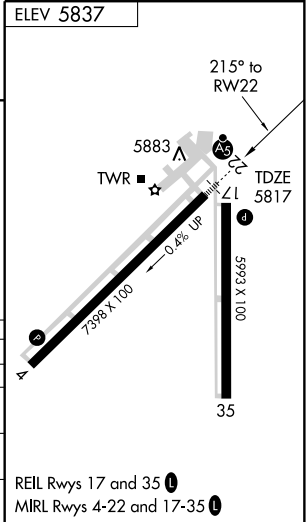
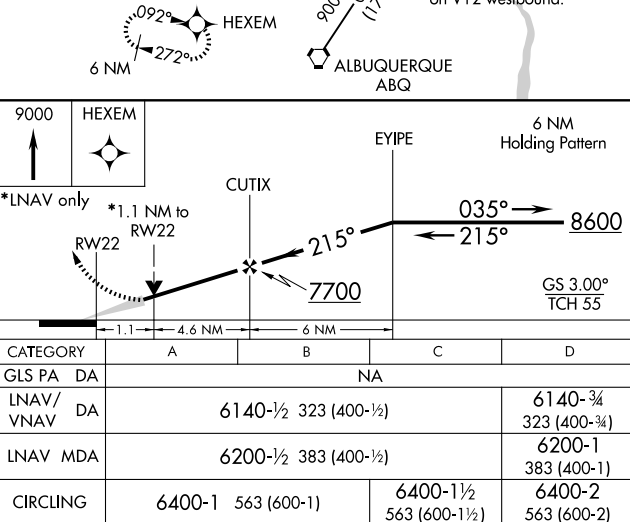
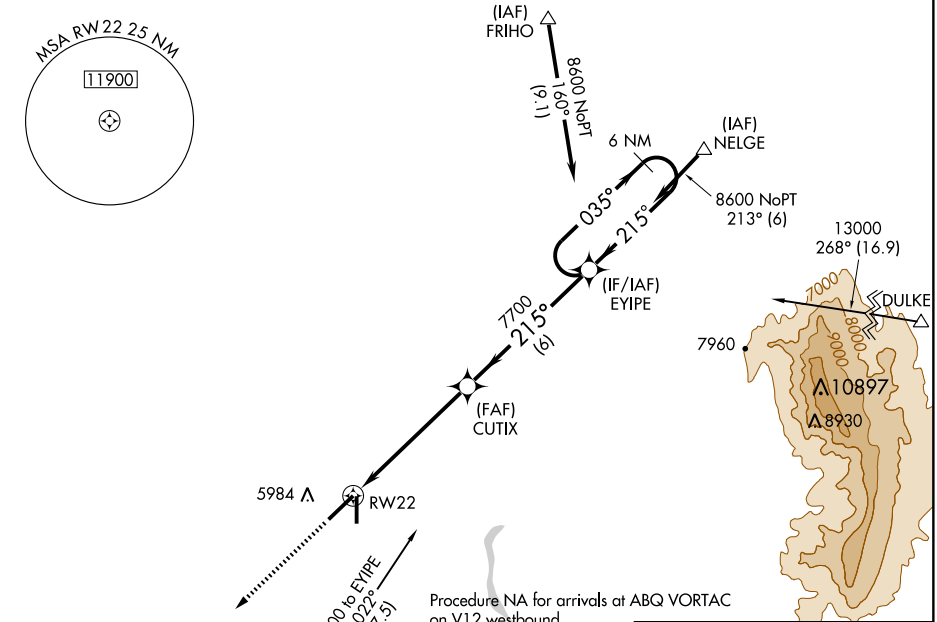
RNAV (GPS) RWY 22

ALBUQUERQUE/DOUBLE EAGLE II (AEG)

Baro-VNAV NA below -26°C (-15°F).
DME/DME RNP-0.3 NA.
For inoperative MALSR, increase LNAV Cat. D visibility to 1¼ and LNAV/VNAV Cat D to 1.

MALSR
MISSED APPROACH: Climb to 9000 direct HEXEM WP and hold.

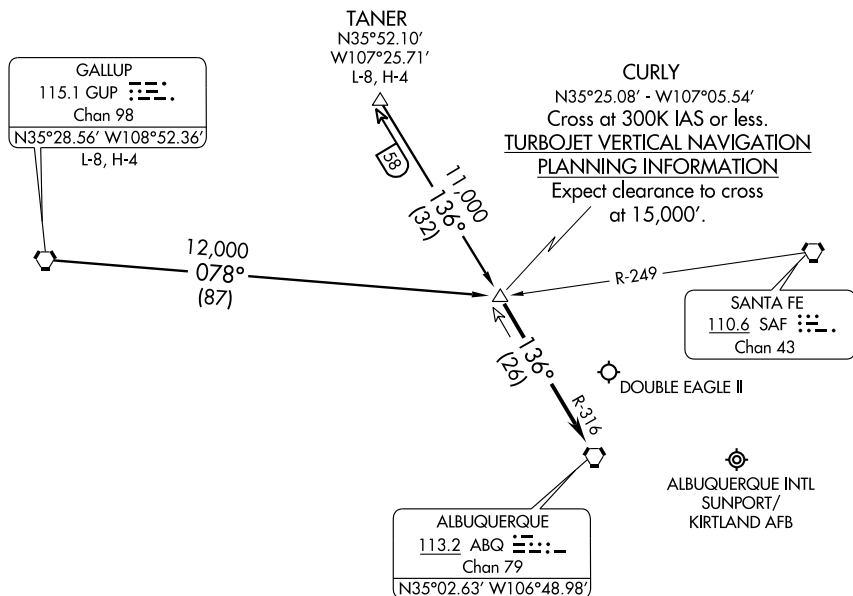
AWOS-3 119.025	ALBUQUERQUE APP CON 127.4 253.5	DOUBLE EAGLE II TOWER ★ 120.15 (CTAF) 0	GND CON 121.625	ALBUQUERQUE CLNC DEL 124.8
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ALBUQUERQUE APP CON

127.4 253.5

ATIS 118.0 257.7



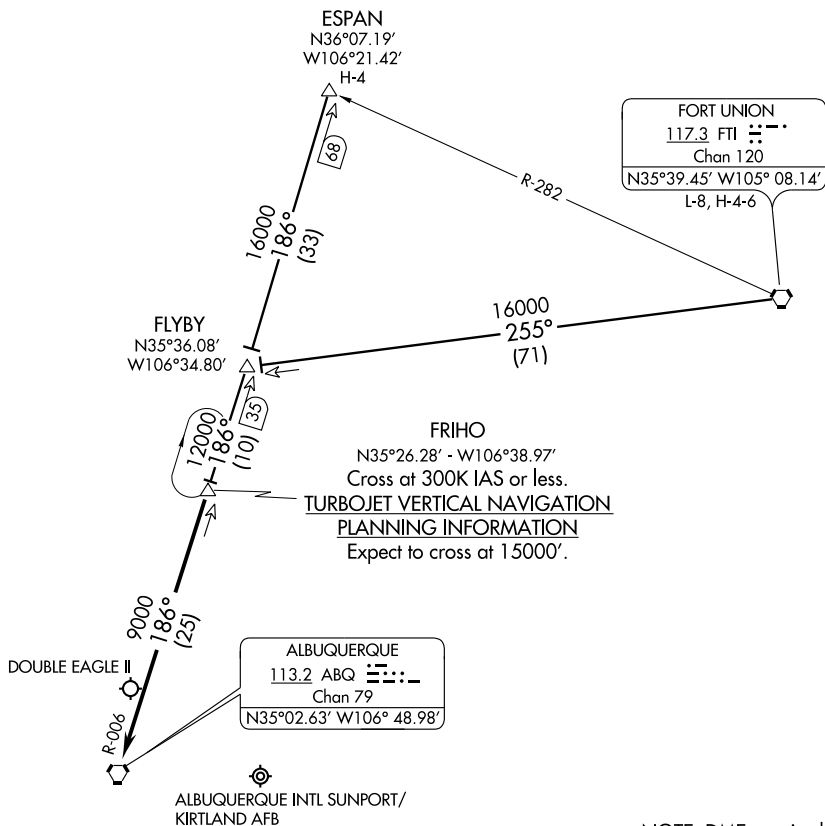
NOTE: This procedure applicable only to turboprop and turbojet aircraft operating at or above 15,000'.

NOTE: Chart not to scale.

GALLUP TRANSITION (GUP.CURLY2): From over GUP VORTAC via GUP R-078 to CURLY DME fix. Thence....

TANER TRANSITION (TANER.CURLY2): From over TANER INT via ABQ R-316 to CURLY DME fix. Thence....

....From over CURLY DME fix via ABQ R-316 to ABQ VORTAC. Expect vectors to final approach course after passing CURLY DME fix.



NOTE: DME required.

NOTE: Chart not to scale.

ESPAN TRANSITION (ESPAN.FRIHO4): From over ESPAN DME fix via ABQ R-006 to FRIHO DME fix, thence....

FORT UNION TRANSITION (FTI.FRIHO4): From over FTI VORTAC via FTI R-255 and ABQ R-006 to FRIHO DME fix, thence....

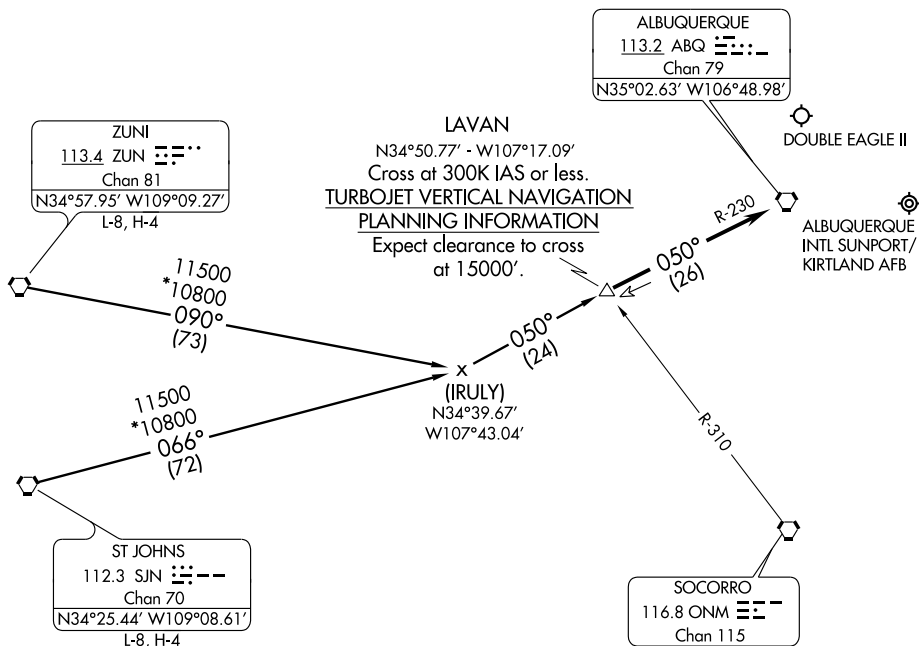
.... From over FRIHO DME fix via ABQ R-006 to ABQ VORTAC. Expect vectors to final approach course after passing FRIHO DME fix.

LAVAN THREE ARRIVAL

ST-12 (FAA)

ALBUQUERQUE, NEW MEXICO

ALBUQUERQUE APP CON
 123.9 354.1
 ALBUQUERQUE TOWER
 120.3 351.9
 GND CON
 121.9 348.6
 ATIS
 118.0 257.7



NOTE: Chart not to scale.

ST. JOHNS TRANSITION (SJN.LAVAN3): From over SJN VORTAC via SJN R-066 and ABQ R-230 to LAVAN DME/INT. Thence....

ZUNI TRANSITION (ZUN.LAVAN3): From over ZUN VORTAC via ZUN R-090 and ABQ R-230 to LAVAN DME/INT. Thence....

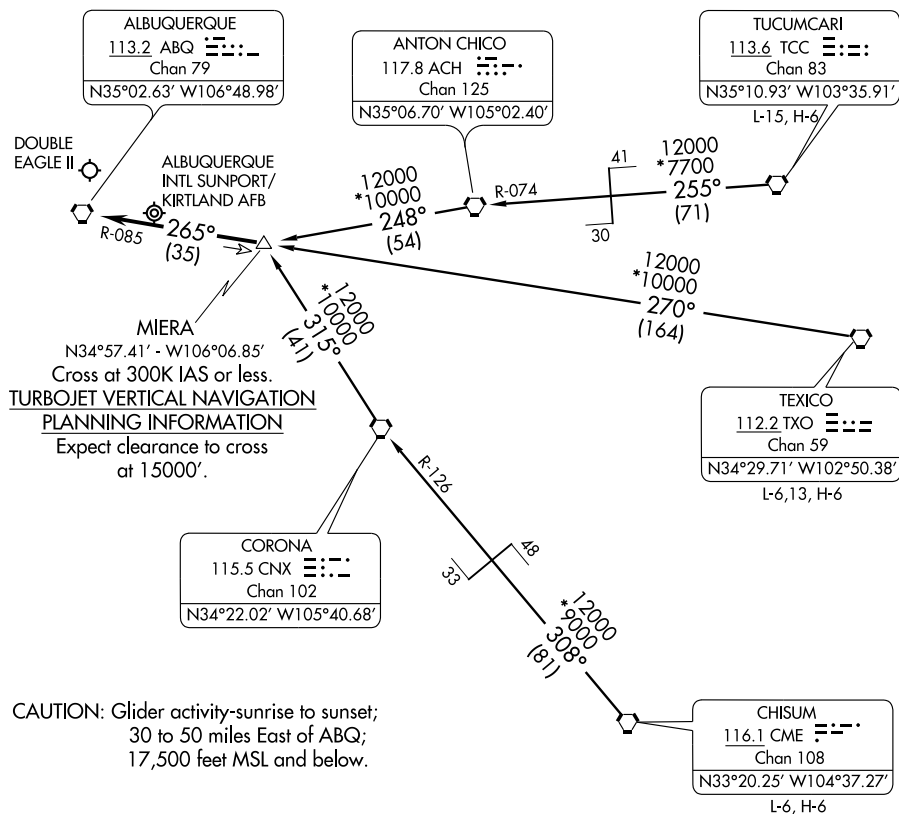
....From over LAVAN fix/INT via ABQ R-230 to ABQ VORTAC. Expect vectors to final approach course after passing LAVAN.

ALBUQUERQUE APP CON

123.9 354.1

ATIS

118.0 257.7



CHISUM TRANSITION (CME.MIERA2): From over CME VORTAC via CME R-308 and CNX R-126 to CNX VORTAC, then via CNX R-315 to MIERA DME fix. Thence....

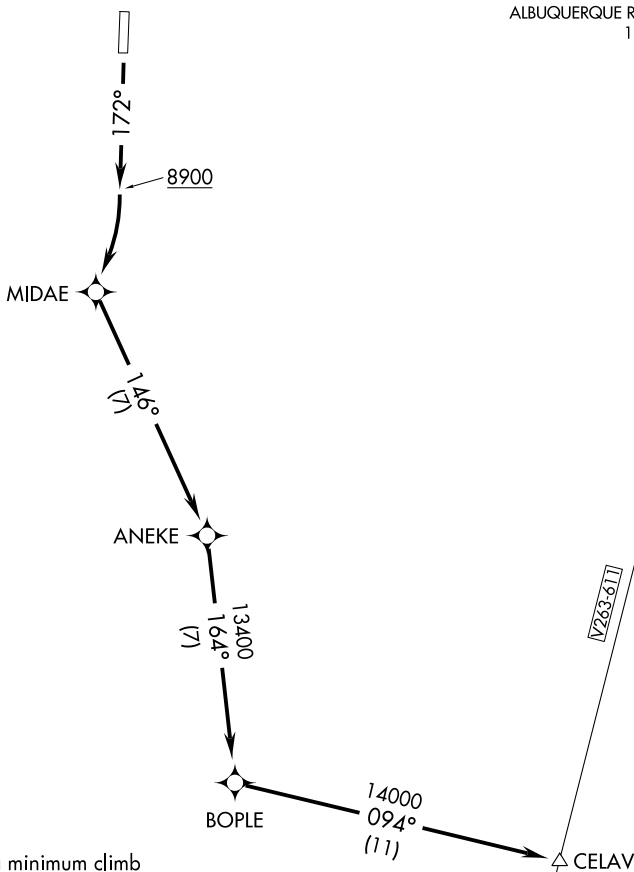
TEXICO TRANSITION (TXO.MIERA2): From over TXO VORTAC via TXO R-270 and ABQ R-085 to MIERA DME fix. Thence....

TUCUMCARI TRANSITION (TCC.MIERA2): From over TCC VORTAC via TCC R-255 and ACH R-074 to ACH VORTAC, then via ACH R-248 to MIERA DME fix. Thence....

....From over MIERA DME fix via ABQ R-085 to ABQ VORTAC. Expect vectors to final approach course after passing MIERA DME fix.

ANEKE TWO DEPARTURE (RNAV) (OBSTACLE)

AWOS-3 118.025
ALBUQUERQUE CENTER
132.8 346.35
ALBUQUERQUE RADIO
122.55

TAKE-OFF MINIMUMS

Rwy 17: Standard with a minimum climb
of 526' per NM to 12300.

Rwy 35: NA- obstacles.

NOTE: Do not exceed 250 KIAS until BOPLE.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Rwy 17, road 74' from DER, 481' right of centerline, 15' AGL/8414' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb heading 172° to 8900, then climbing right turn to 14000 direct MIDAE, then via 146° track to ANEKE, then via 164° track to BOPLE, then via 094° track to CELAV.

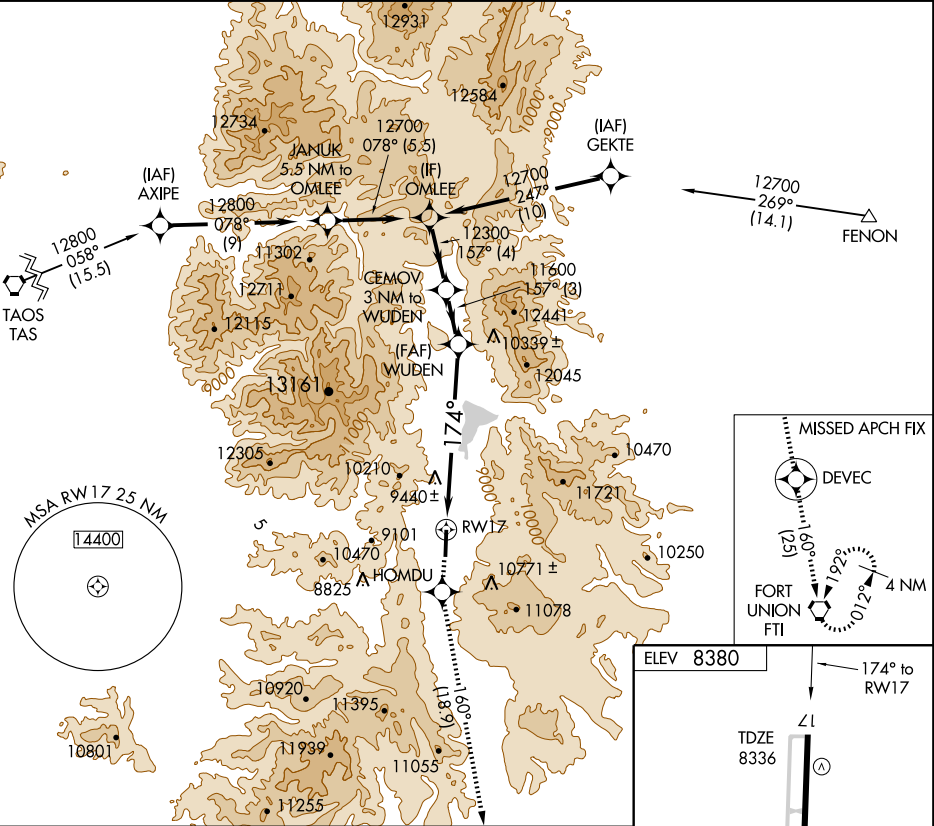
APP CRS	Rwy Idg	8900
174°	TDZE	8336
	Apt Elev	8380

RNAV (GPS) RWY 17

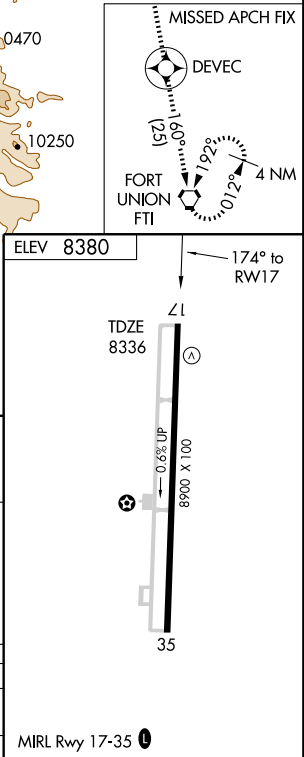
ANGEL FIRE (A.XX)

▼ If local altimeter setting not received, procedure NA. ▲ NA DME/DME RNP-0.3 NA. Procedure NA at night.	MISSED APPROACH: Climb to 14000 via 174° course to HOMDU and via 160° track to DEVEC and 160° track to FTI VORTAC and hold.
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AWOS-3 118.025	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0
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OMLEE	CEMOV 3 NM to WUDEN	14000	HOMDU	160° track	DEVEC	160° track	FTI
12700	12300	11600	174°	174°	174°	174°	174°
Procedure Turn NA							
4 NM	3 NM	10 NM					
CATEGORY	A	B	C	D			
LNAV MDA	9960-1¼ 1624 (1600-1¼)	9960-1½ 1624 (1600-1½)	9960-3 1624 (1600-3)	NA			
CIRCLING			NA				

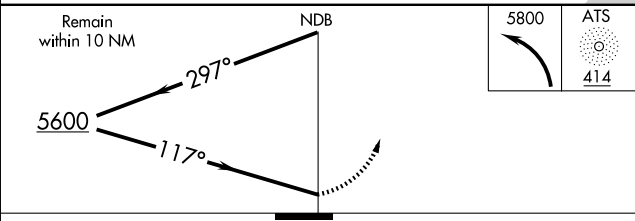
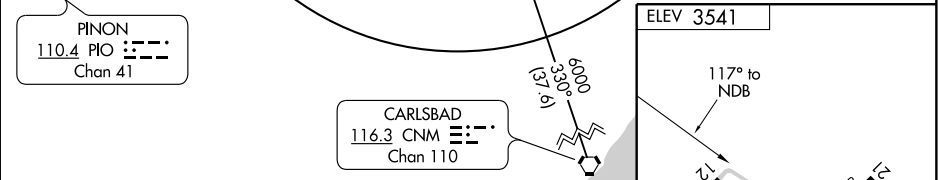
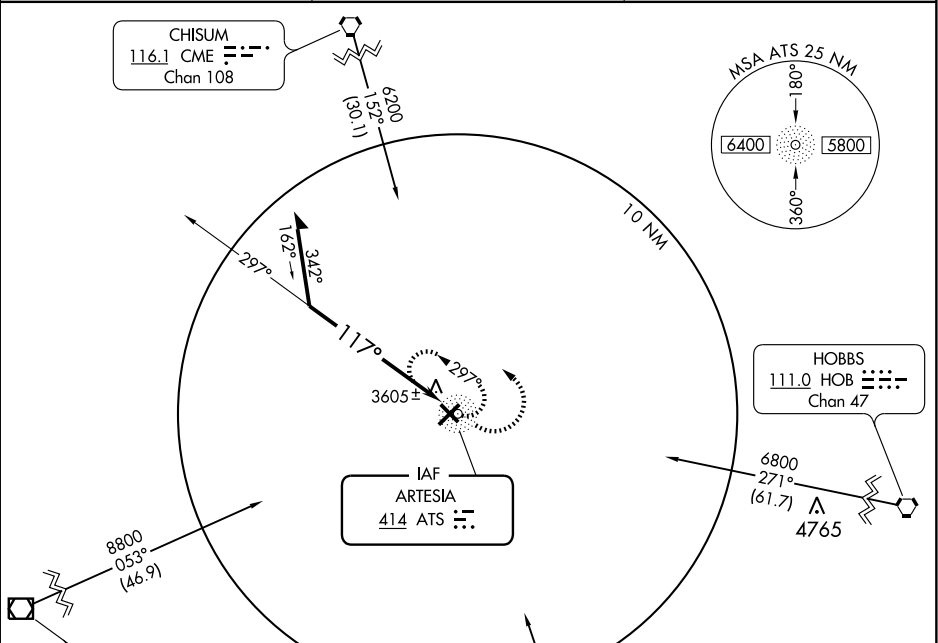


NDB RWY 12
ARTESIA MUNI (ATS)

NDB ATS 414	APP CRS 117°	Rwy Idg TDZE Apt Elev 5390 3534 3541
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NA	MISSED APPROACH: Climbing left turn to 5800 in ATS NDB holding pattern.
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AWOS-3 126.725	ROSWELL APP CON★ 119.6 239.0	UNICOM 123.075 (CTAF) 0
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CATEGORY	A	B	C	D
S-12	4180-1	646 (700-1)	4180-1¾ 646 (700-1¾)	4180-2 646 (700-2)
CIRCLING	4180-1	639 (700-1)	4180-1¾ 639 (700-1¾)	4180-2 639 (700-2)

NA

MISSED APPROACH: Climbing right turn to 5800 in ATS NDB holding pattern.

AWOS-3

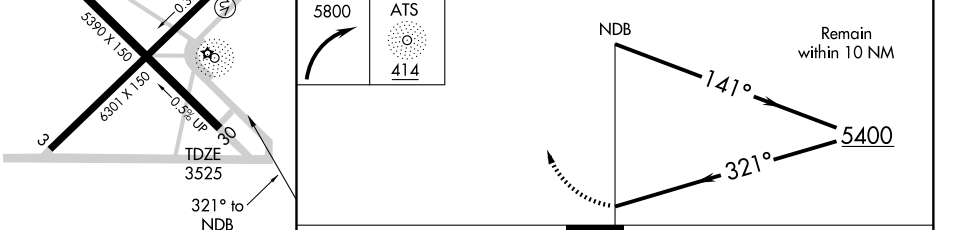
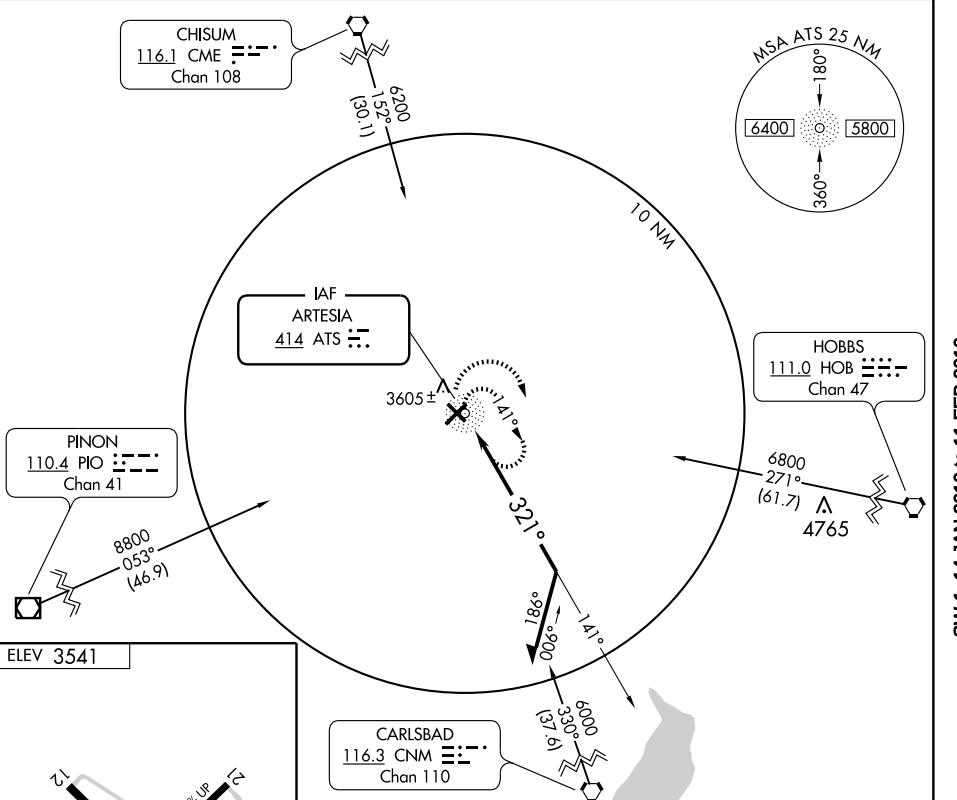
126.725

ROSWELL APP CON★

119.6 239.0

UNICOM

123.075 (CTAF) 0



CATEGORY	A	B	C	D
S-30	4000-1	475 (500-1)	4000-1¼ 475 (500-1¼)	4000-1½ 475 (500-1½)
CIRCLING	4000-1	459 (500-1)	4000-1½ 459 (500-1½)	4100-2 559 (600-2)

MIRL Rwy 3-21 and 12-30 0

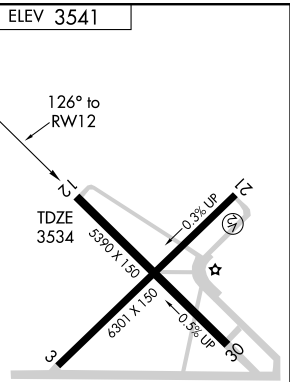
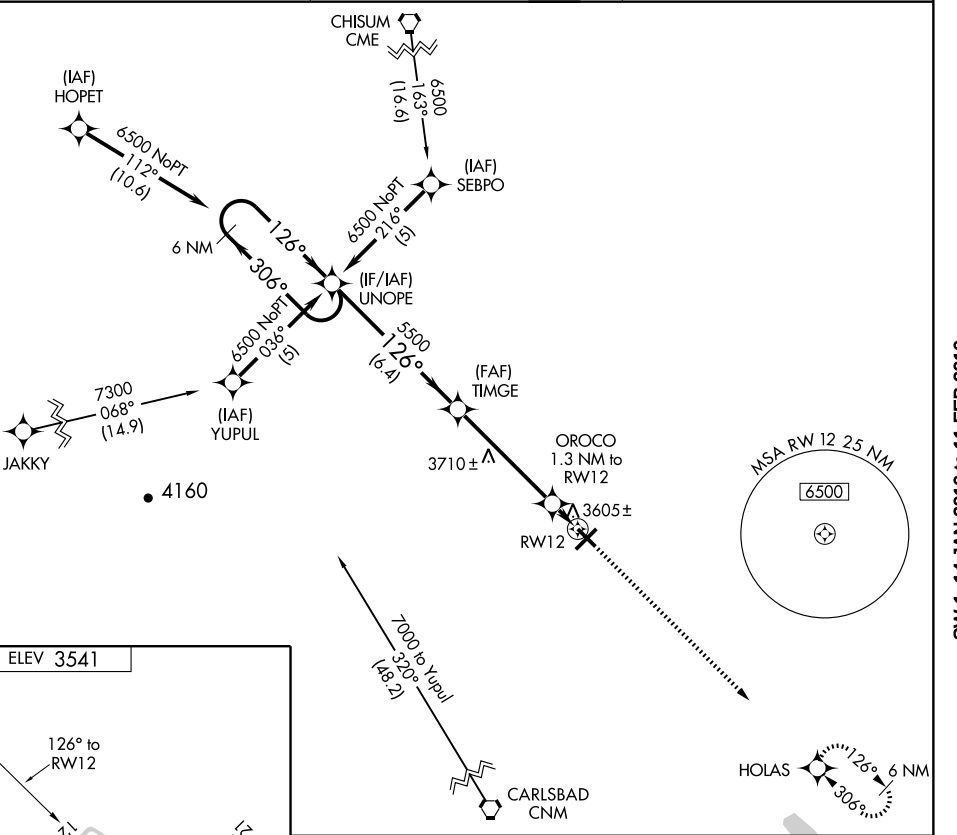
SW-1. 14 JAN 2010 to 11 FEB 2010

DME/DME RNP- 0.3 NA

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 5900 direct HOLAS and hold.

AWOS-3 126.725	ROSWELL APP CON* 119.6 239.0	UNICOM 123.075 (CTAF) 0
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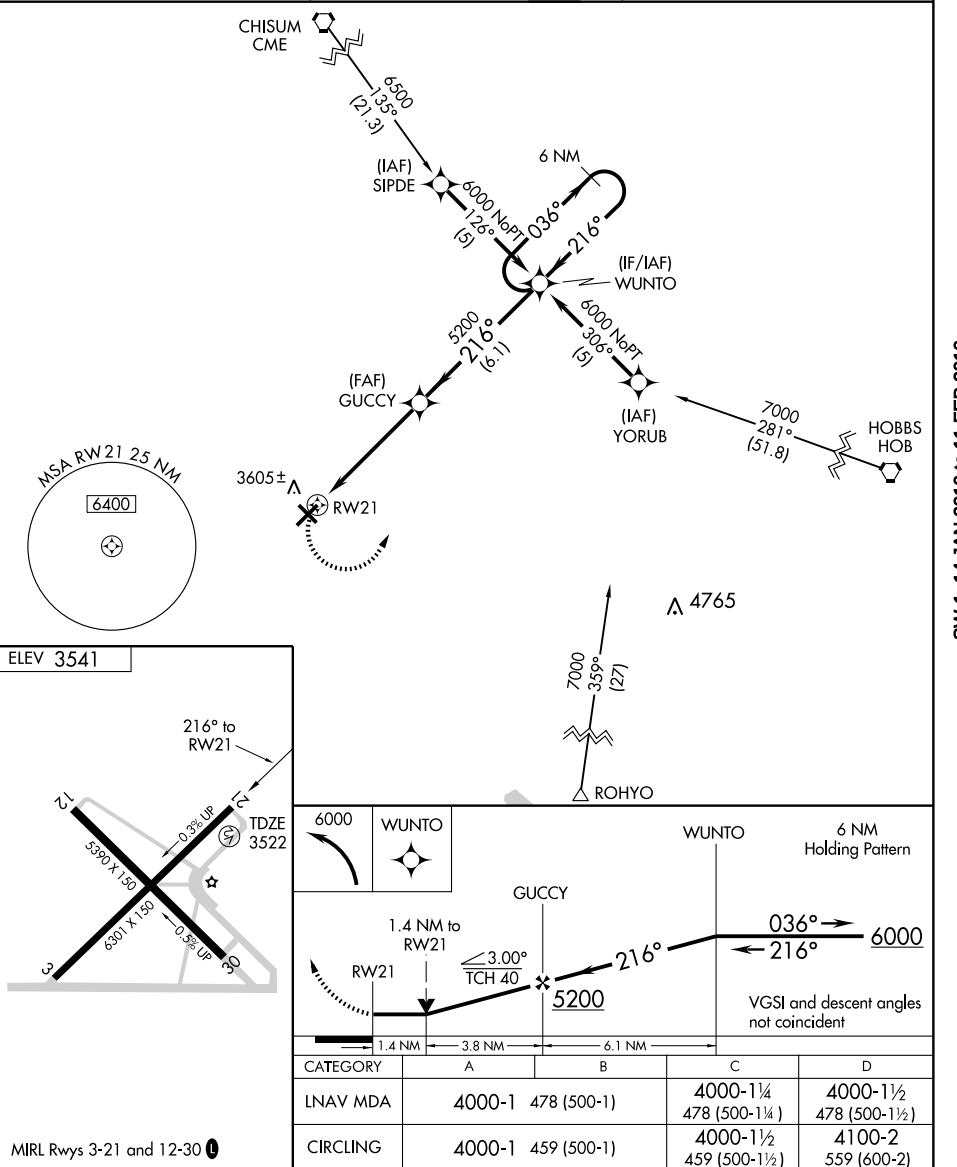


6 NM Holding Pattern				UNOPE		TIMGE		5900		HOLAS	
CATEGORY		A		B		C		D			
LNAV MDA		3900-1		366 (400-1)		3900-1½		366 (400-1¼)			
CIRCLING		3940-1		4000-1		4000-1½		4100-2			
		399 (400-1)		459 (500-1)		459 (500-1½)		559 (600-2)			

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 6000 direct WUNTO and hold.

AWOS-3 126.725	ROSWELL APP CON* 119.6 239.0	UNICOM 123.075 (CTAF) 0
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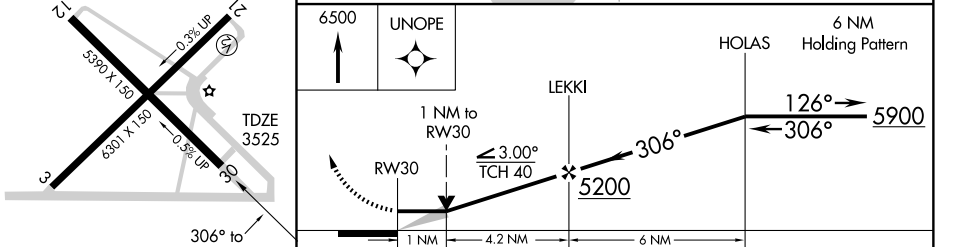
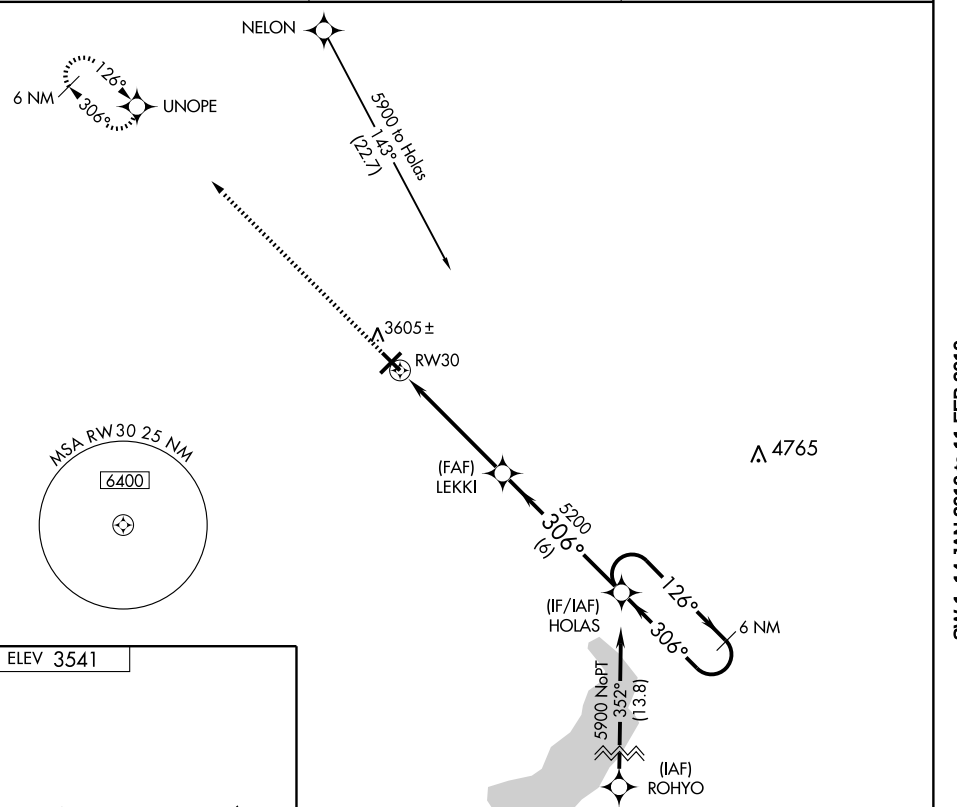


SW-1. 14 JAN 2010 to 11 FEB 2010

DME/DME RNP- 0.3 NA
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6500 direct UNOPE and hold.

AWOS-3 126.725	ROSWELL APP CON★ 119.6 239.0	UNICOM 123.075 (CTAF) 1
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CATEGORY	A	B	C	D
LNAV MDA	3880-1	355 (400-1)	3880-1¼	355 (400-1¼)
CIRCLING	3940-1 399 (400-1)	4000-1 459 (500-1)	4000-1½ 459 (500-1½)	4100-2 559 (600-2)

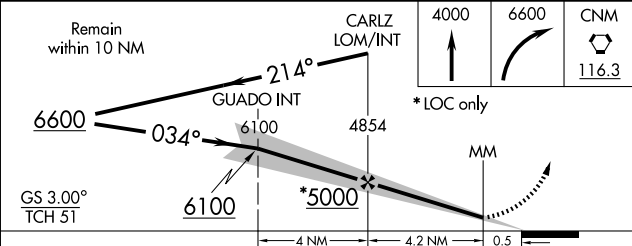
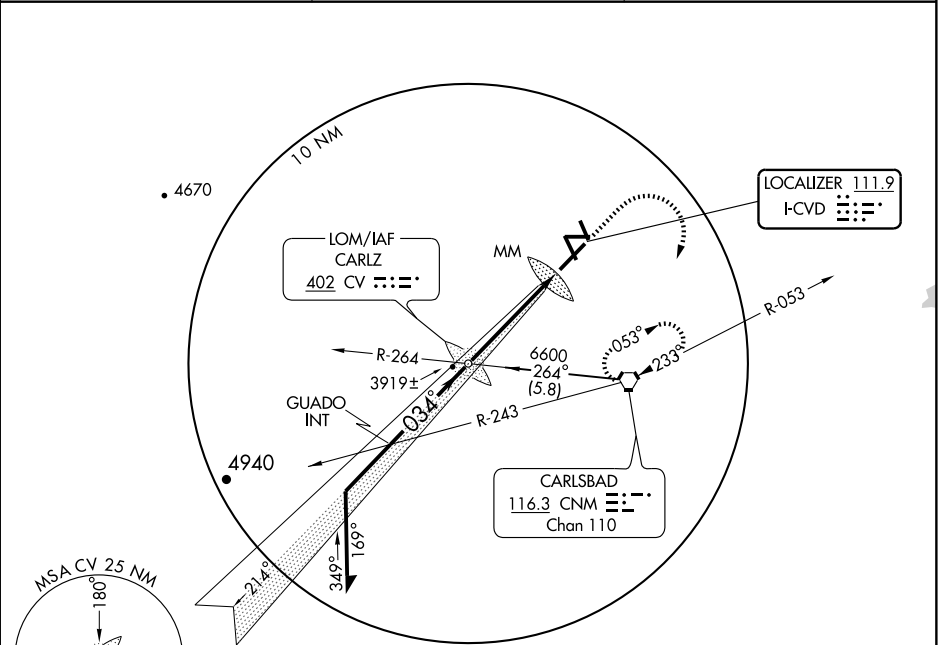
MIRL Rwy 3-21 and 12-30 1

LOC I-CVD 111.9	APP CRS 034°	Rwy Idg TDZE Apt Elev	7854 3295 3295
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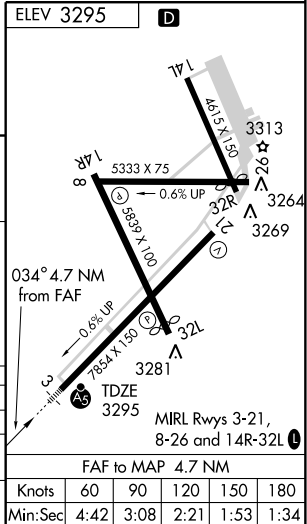
ILS RWY 3
CARLSBAD/CAVERN CITY AIR TERMINAL (CNM)

NA	MALSR	MISSED APPROACH: Climb to 4000 then climbing right turn to 6600 direct CNM VORTAC and hold.
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ASOS 118.375	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.95 (CTAF)
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CATEGORY	A	B	C	D
S-ILS 3		3495-1/2	200 (200-1/2)	
S-LOC 3	3940-1/2	645 (700-1/2)	3940-1 1/4 645 (700-1 1/4)	3940-1 1/2 645 (700-1 1/2)
CIRCLING	3940-1	645 (700-1)	3940-1 1/4 645 (700-1 1/4)	3940-2 645 (700-2)

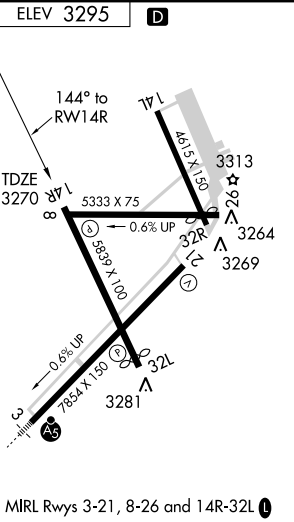
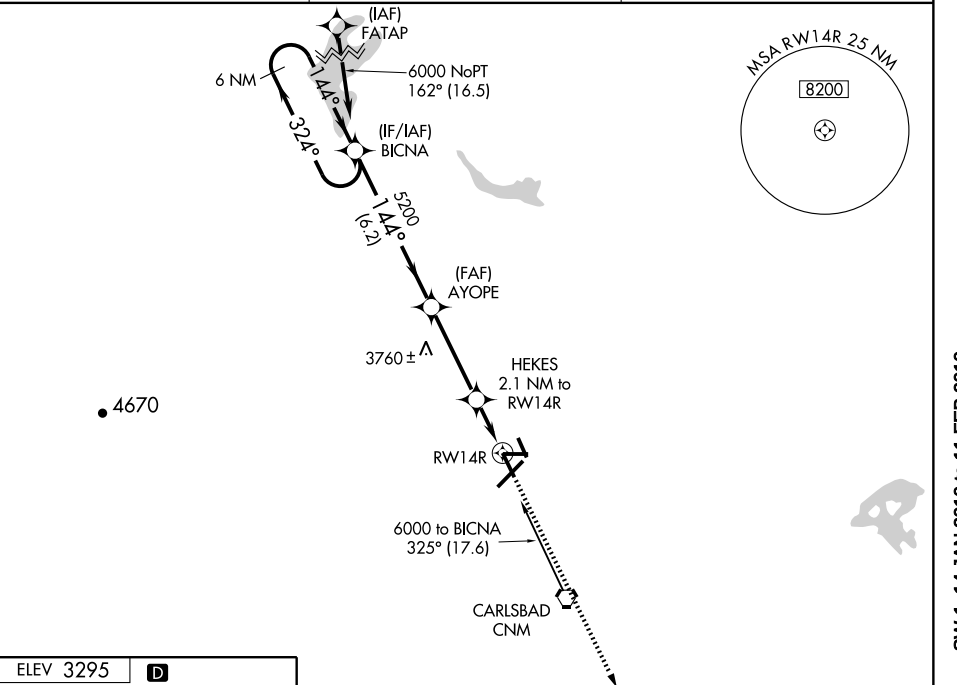


NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct DAPEY WP and hold.

ASOS 118.375	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.95 (CTAF) 0
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6 NM Holding Pattern		BICNA		AYOPE		HEKES 2.1 NM to RW14R		6000 ↑	DAPEY ✦
6000 ← 324° 144° →				144°		3.03° TCH 69		0.6 NM to RW14R	
VGSI and descent angles not coincident.				5200 *		4020		RW14R	
		6.2 NM		3.7 NM		1.5 NM		0.6	
CATEGORY	A		B		C		D		
LNNAV MDA	3580-1 310 (300-1)								
CIRCLING	3680-1		3760-1		3760-1½		3860-2		
	385 (400-1)		465 (500-1)		465 (500-1½)		565 (600-2)		

MIRL Rwy 3-21, 8-26 and 14R-32L 0

SW-1, 14 JAN 2010 to 11 FEB 2010

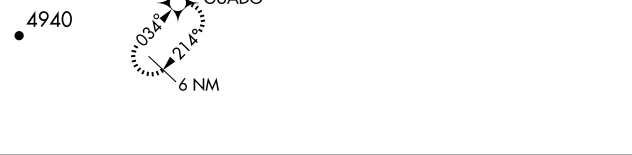
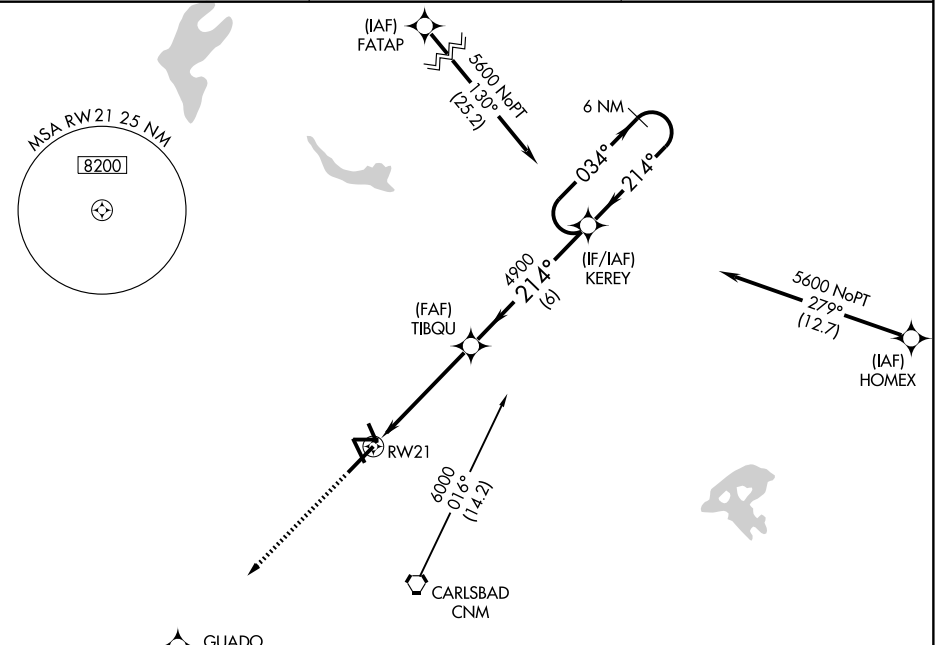
APP CRS	Rwy Idg	7854
214°	TDZE	3264
	Apt Elev	3295

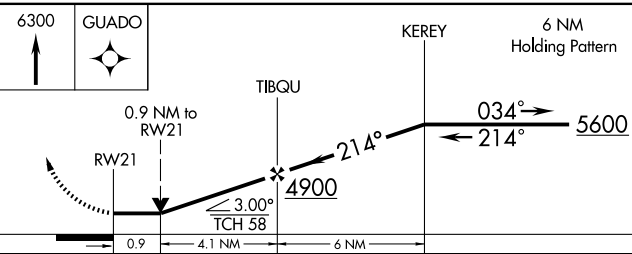
RNAV (GPS) RWY 21

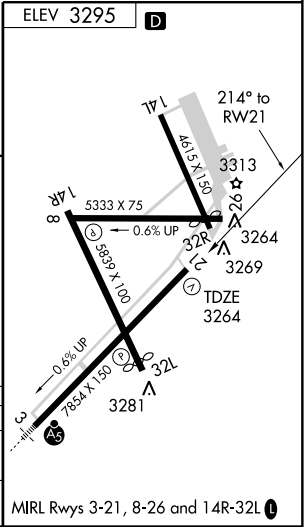
CARLSBAD/ CAVERN CITY AIR TERMINAL (CNM)

NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 6300 direct GUADO WP and hold.
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ASOS 118.375	ALBUQUERQUE CENTER 135.875 292.15	UNICOM 122.95 (CTAF) 1
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6300 ↑	GUADO 				
CATEGORY	A	B	C	D	
LNAV MDA	3580-1 316 (300-1)				
CIRCLING	3680-1 385 (400-1)	3760-1 465 (500-1)	3760-1½ 465 (500-1½)	3860-2 565 (600-2)	



VORTAC CNM	APP CRS	Rwy Idg	5454
116.3	325°	TDZE	3268
Chan 110		Apt Elev	3295

VOR RWY 32L

CARLSBAD/CAVERN CITY AIR TERMINAL (CNM)

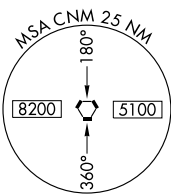
MISSED APPROACH: Climbing right turn to 5000 direct CNM VORTAC and hold.

ASOS
118.375

ALBUQUERQUE CENTER
135.875 292.15

UNICOM
122.95 (CTAF) 0

4670



4940

(IAF) JALEB
CNM 13

(IAF) LANIC
CNM 13

IAF
CARLSBAD
116.3 CNM
Chan 110

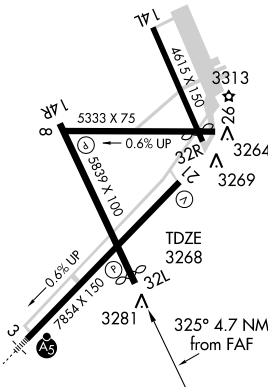
(IAF) KEHFI
CNM 13

GEBEC
CNM 13

(IAF) CAVRN

ELEV 3295

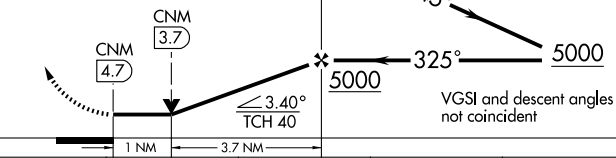
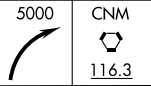
D



MIRL Rwy 3-21, 8-26 and 14R-32L

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34



CATEGORY	A	B	C	D
S-32L	3680-1	412 (400-1)	3680-1¼	412 (400-1¼)
CIRCLING	3680-1 385 (400-1)	3760-1 465 (500-1)	3760-1½ 465 (500-1½)	3860-2 565 (600-2)

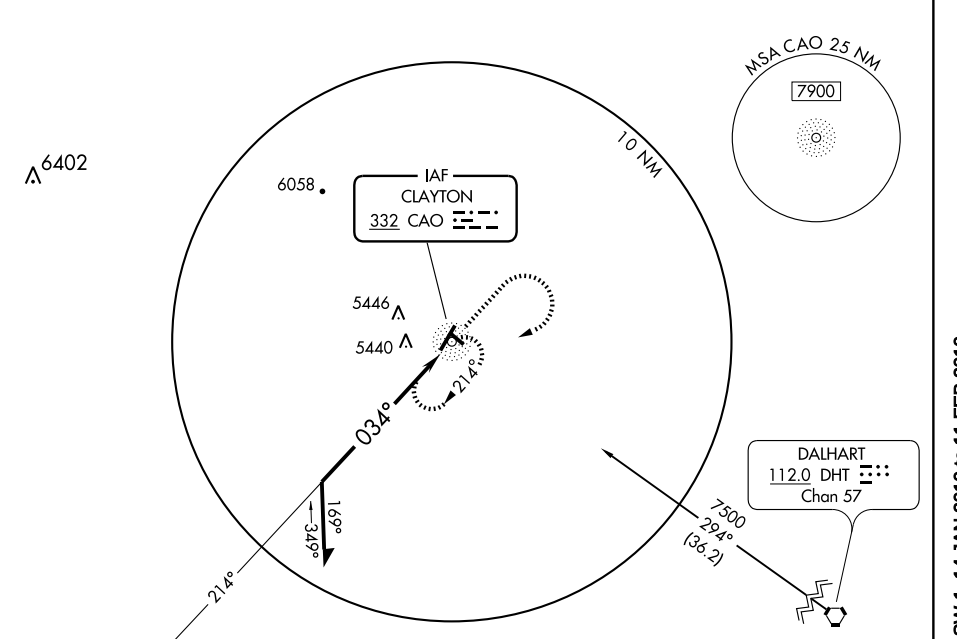
⚠

⚠

Circling not authorized west of Rwy 2 and 12.
If local altimeter setting not received, use Dalhart Muni, TX
altimeter setting and increase all MDAs 240 feet.

MISSED APPROACH: Climb to 6200, then climbing right
turn to 7000 direct CAO NDB and hold.

ASOS 120.625	ALBUQUERQUE CENTER 127.85 285.475	UNICOM 122.8 (CTAF) 0
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ELEV 4965

Rwy 2 Idg 5920'

Remain within 10 NM

7000

214°

034°

NDB

6200

7000

CAO 332

TDZE 4965

6300 X 75

4100 X 60

0.5% Up

034° to NDB

MIRL Rwy 2-20 and 12-30

CATEGORY	A	B	C	D
S-2	5800-1 835 (900-1)	5800-1¼ 835 (900-1¼)	5800-2½ 835 (900-2½)	5800-2¾ 835 (900-2¾)
CIRCLING	5800-1 835 (900-1)	5800-1¼ 835 (900-1¼)	5800-2½ 835 (900-2½)	5800-2¾ 835 (900-2¾)

Knots	60	90	120	150	180
Min:Sec					

NDB CAO	APP CRS	Rwy Idg	6300
<u>332</u>	194°	TDZE	4965
		Apt Elev	4965

NDB RWY 20
CLAYTON MUNI AIRPARK (CAO)

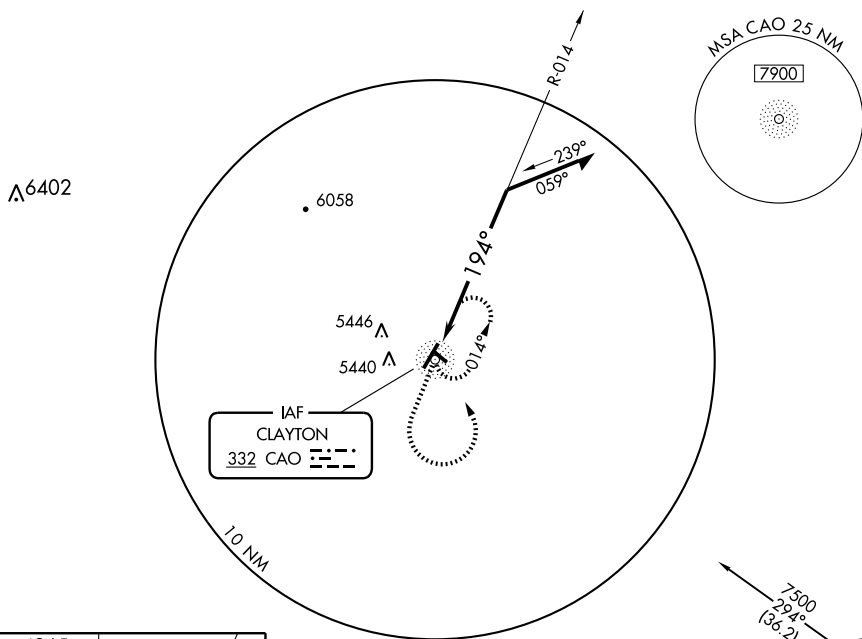
T Circling not authorized west of Rwy 2 and 12.
A If local altimeter setting not received, use Dalhart Muni, TX altimeter setting and increase all MDAs 240 feet.

MISSED APPROACH: Climb to 6200, then climbing left turn to 7000 direct CAO NDB and hold.

ASOS
120.625

ALBUQUERQUE CENTER
127.85 285.475

UNICOM
122.8 (CTAF) **L**



SW-1. 14 JAN 2010 to 11 FEB 2010

ELEV 4965	Rwy 2 ldg 5920' /
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194° to NDB →

TDZE
4965

4100 X 60
0.5% UP

6200	7000	CAO
		
		332

NDB

014°

194°

7000

Remain within 10 NM

DALHART
2.0 DHT ::
Chan 57

MIRL Rwy 2-20 and 12-30 **L**

CATEGORY	A	B	C	D
S-20	5680-1	715 (800-1)	5680-2 715 (800-2)	5680-2 $\frac{1}{4}$ 715 (800-2 $\frac{1}{4}$)
CIRCLING	5680-1	715 (800-1)	5680-2 715 (800-2)	5680-2 $\frac{1}{4}$ 715 (800-2 $\frac{1}{4}$)

Knots	60	90	120	150	180
Min:Sec					

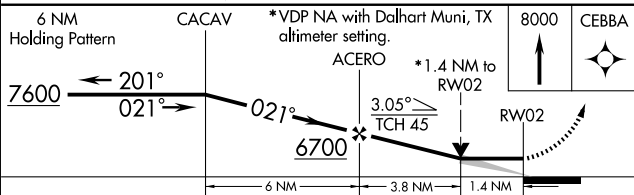
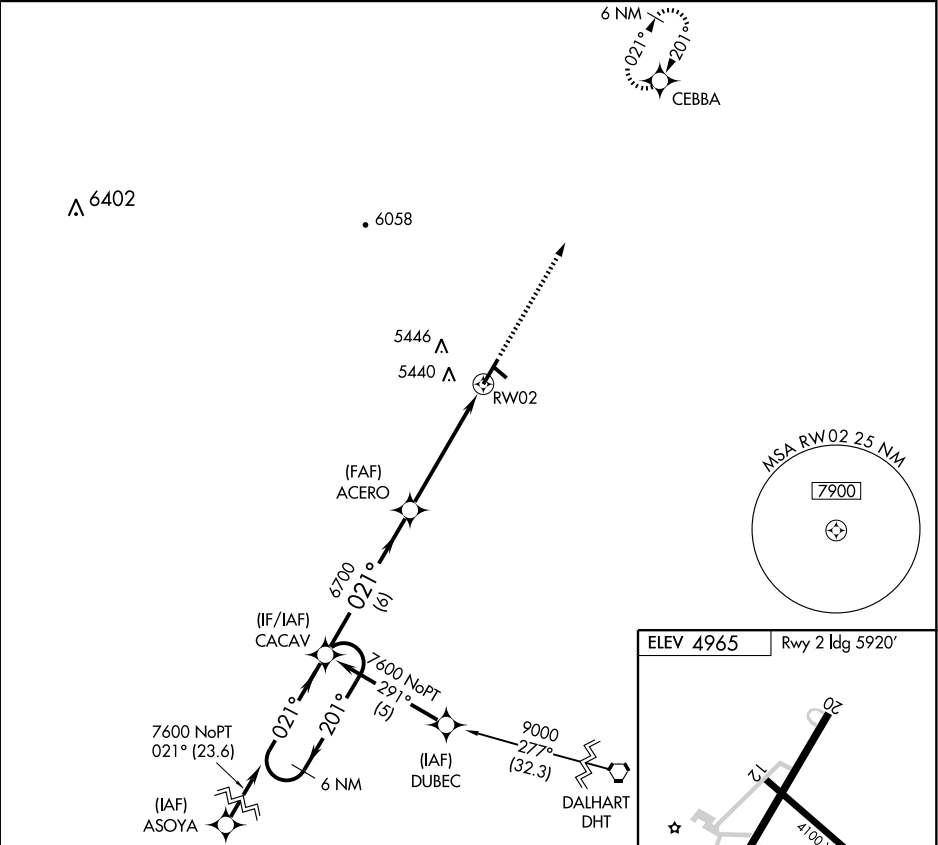
RNAV (GPS) RWY 2
CLAYTON MUNI AIRPARK (CAO)

APP CRS	Rwy Idg	5920
021°	TDZE	4965
	Apt Elev	4965

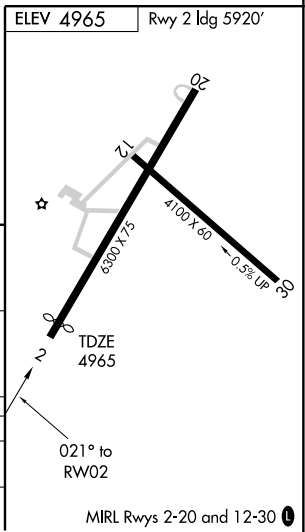
⚠ If local altimeter setting not received, use Dalhart Muni, TX altimeter setting and increase all MDAs 240 feet.
⚠ Circling NA west of Runways 2 and 12.
DME/DME RNP- 0.3 NA. Procedure NA at night.

MISSED APPROACH: Climb to 8000 direct CEBBA and hold.

ASOS 120.625	ALBUQUERQUE CENTER 127.85 285.475	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNNAV MDA	5460-1	495 (500-1)	5460-1½ 495 (500-1½)	5460-1½ 495 (500-1½)
CIRCLING	5460-1	495 (500-1)	5460-1½ 495 (500-1½)	5520-2 555 (600-2)



⚠

DME/DME RNP- 0.3 NA.

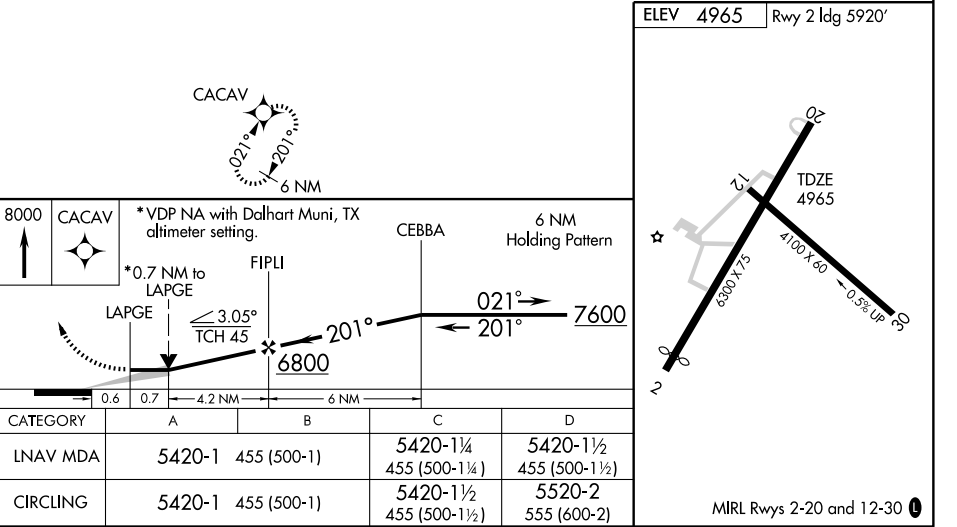
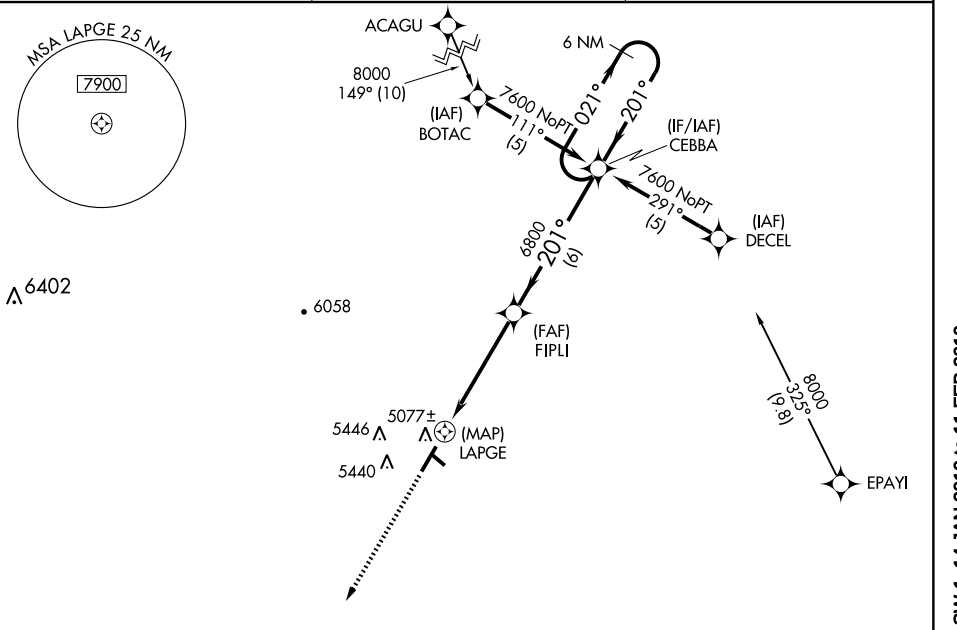
⚠

Circling NA west of Rwy 2 and 12. Procedure NA at night.

If local altimeter setting not received, use Dalhart Muni, TX altimeter setting and increase all MDAs 240 feet.

MISSED APPROACH: Climb to 8000 direct CACAV and hold.

ASOS 120.625	ALBUQUERQUE CENTER 127.85 285.475	UNICOM 122.8 (CTAF) 0
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LOC I-CVN 108.9	APP CRS 037°	Rwy Idg TDZE Apt Elev 5401 4205 4216
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ILS RWY 4

CLOVIS MUNI (CVN)

NA

MALSR



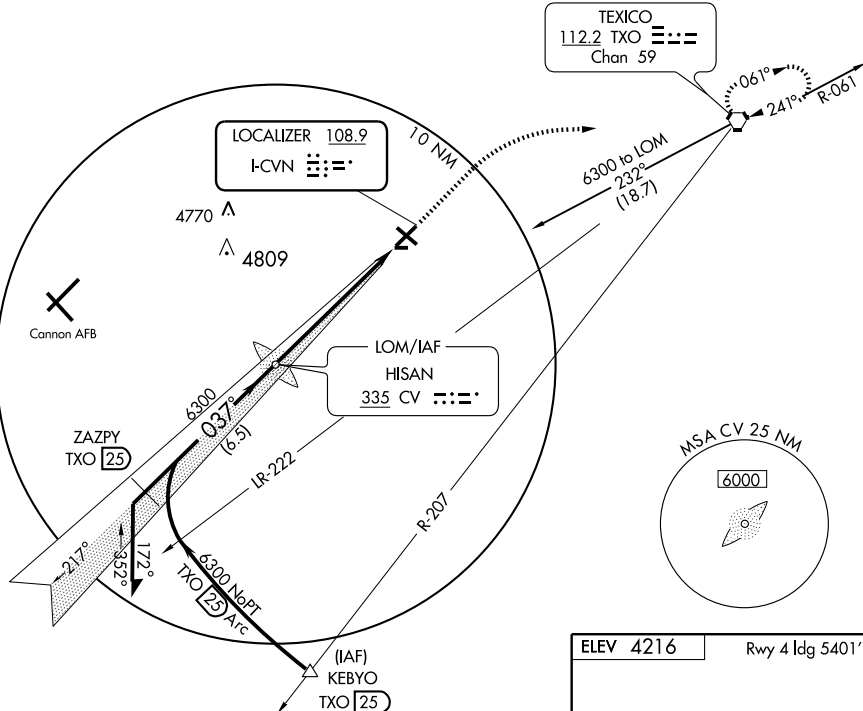
MISSED APPROACH: Climb to 4700 then climbing right turn to 6000 direct TXO VORTAC and hold.

AWOS-3
135.375

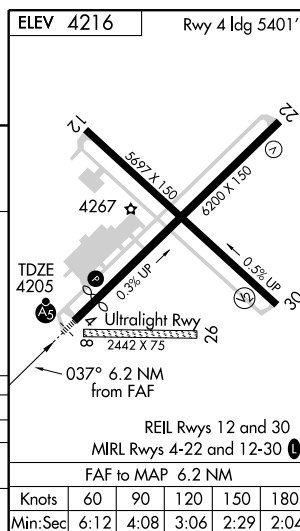
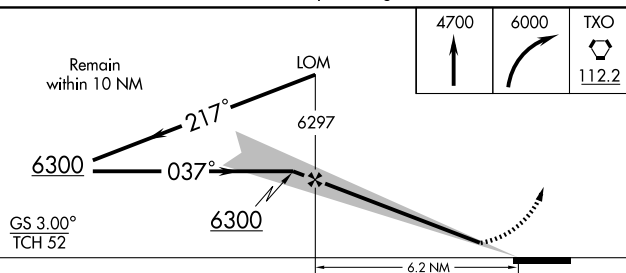
CANNON APP CON ★
125.5 352.1

CLNC DEL
119.0

UNICOM
122.8 (CTAF) **1**



CAUTION: Cannon AFB 12 NM WSW, heavy USAF fighter traffic.



CATEGORY	A	B	C	D
S-ILS 4	4405-½		200 (200-½)	
S-LOC 4	4640-½	435 (500-½)	4640-¾ 435 (500-¾)	4640-1 435 (500-1)
CIRCLING	4680-1	464 (500-1)	4680-1½ 464 (500-1½)	4780-2 564 (600-2)

Knots	60	90	120	150	180
Min:Sec	6:12	4:08	3:06	2:29	2:04

WAAS CH 97300 W04A	APP CRS 037°	Rwy Idg TDZE Apt Elev 5401 4205 4216
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RNAV (GPS) RWY 4
CLOVIS MUNI (CVN)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -23°C (-9°F)
For inoperative MALSR, increase LNAV/VNAV Cat. D visibility to 1.



MISSED APPROACH: Climb to 6000 direct
RIMKE and hold.

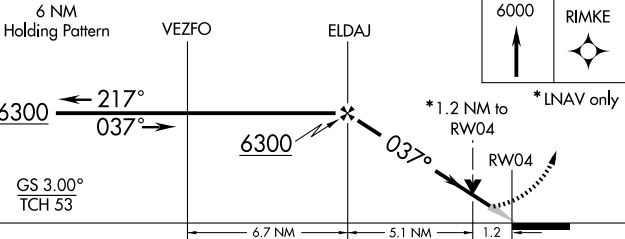
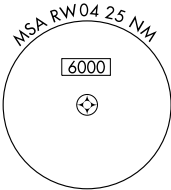
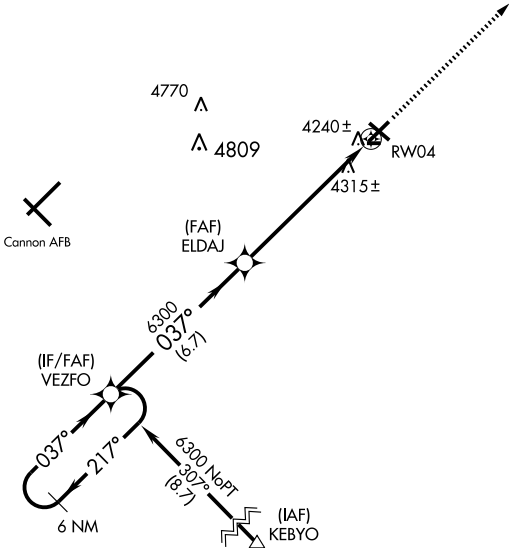
AWOS-3
135.375

CANNON APP CON*
125.5 352.1

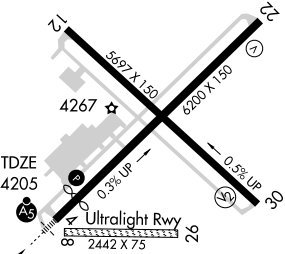
CLNC DEL
119.0

UNICOM
122.8 (CTAF)

CAUTION: Cannon AFB 12 NM WSW, heavy USAF fighter traffic.



ELEV 4216 Rwy 4 Idg 5401'



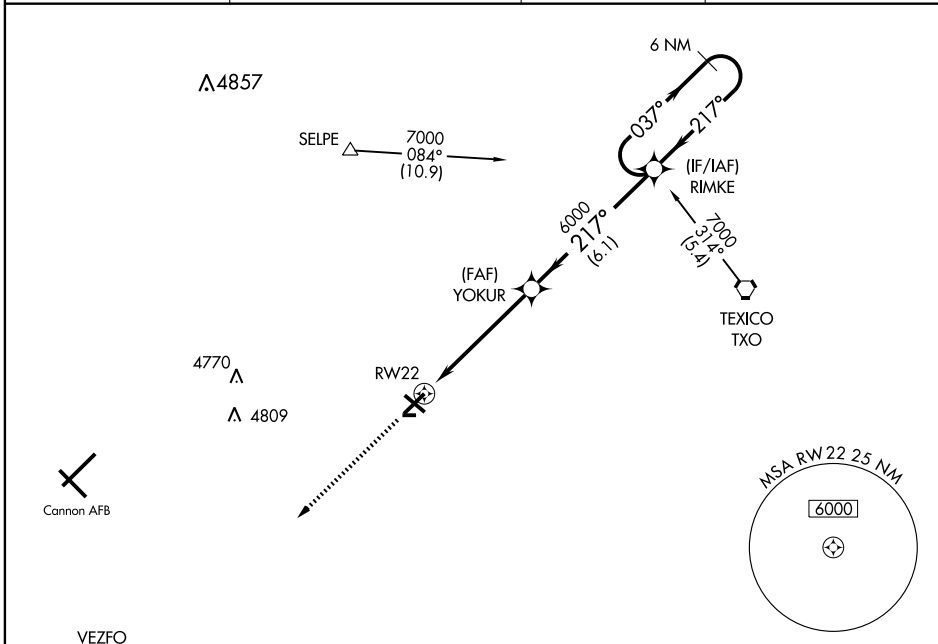
CATEGORY	A	B	C	D
LPV DA	4460-1/2 255 (300-1/2)			
LNAV/VNAV DA	4500-1/2 295 (300-1/2)			4500-3/4 295 (300-3/4)
LNAV MDA	4640-1/2 435 (500-1/2)		4640-3/4 435 (500-3/4)	4640-1 435 (500-1)
CIRCLING	4680-1 464 (500-1)		4680-1 1/2 464 (500-1 1/2)	4780-2 564 (600-2)

REIL Rwy 12 and 30
MIRL Rwy 4-22 and 12-30

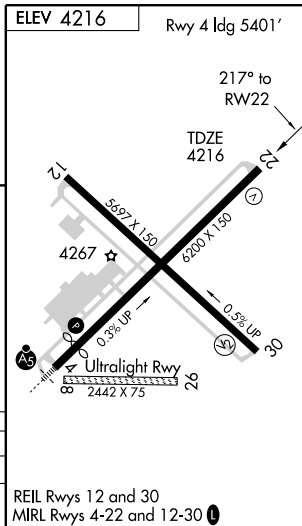
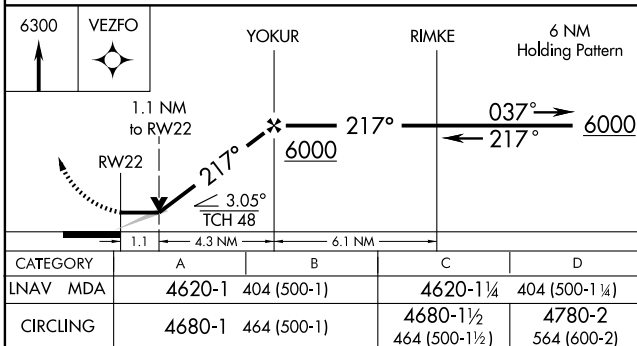
APP CRS	Rwy Idg	6200
217°	TDZE	4216
	Apt Elev	4216

RNAV (GPS) RWY 22
CLOVIS MUNI (CVN)

DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 6300 direct VEZFO and hold.	
AWOS-3 135.375	CANNON APP CON★ 125.5 352.1	CLNC DEL 119.0	UNICOM 122.8 (CTAF) ①



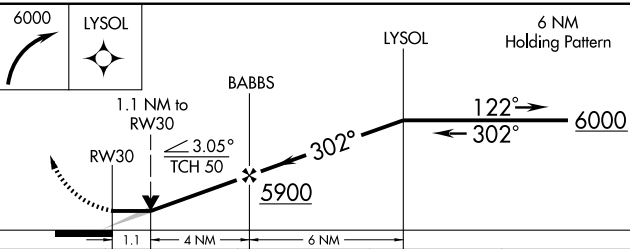
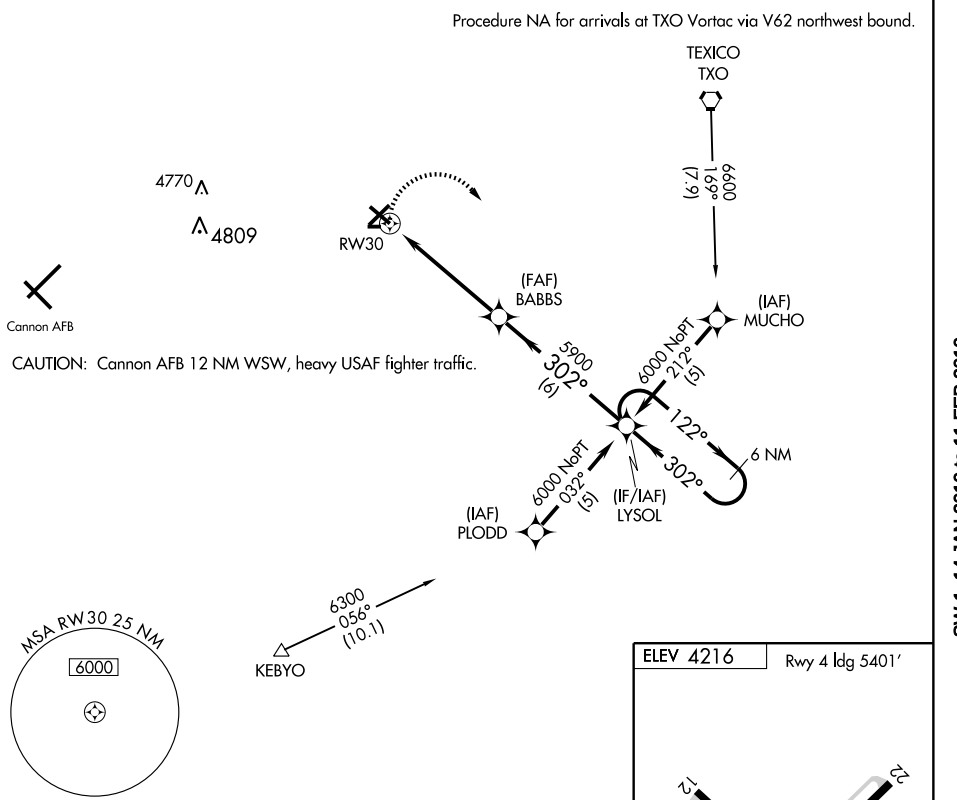
CAUTION: Cannon AFB 12 NM WSW, heavy USAF fighter traffic.



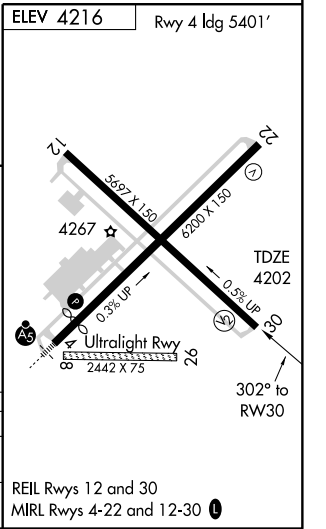
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 6000 direct LYSOL and hold.

AWOS-3 135.375	CANNON APP CON★ 125.5 352.1	CLNC DEL 119.0	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
RNAV MDA	4620-1	418 (500-1)	4620-1¼	418 (500-1¼)
CIRCLING	4680-1	464 (500-1)	4680-1½ 464 (500-1½)	4780-2 564 (600-2)



REIL Rwy 12 and 30
MIRL Rwy 4-22 and 12-30 1

VOR RWY 22
CLOVIS MUNI (CVN)



BRONCO 1 MOA

ELEV 4216 Rwy 4 ldg 5401'

241° 12.1 NM from FAF

5627 X 150

4267 ☆

6200 X 150

0.3% UP

0.3% UP

TDZE 4216

26 8 2442 X 75

REIL Rwy 12 and 30

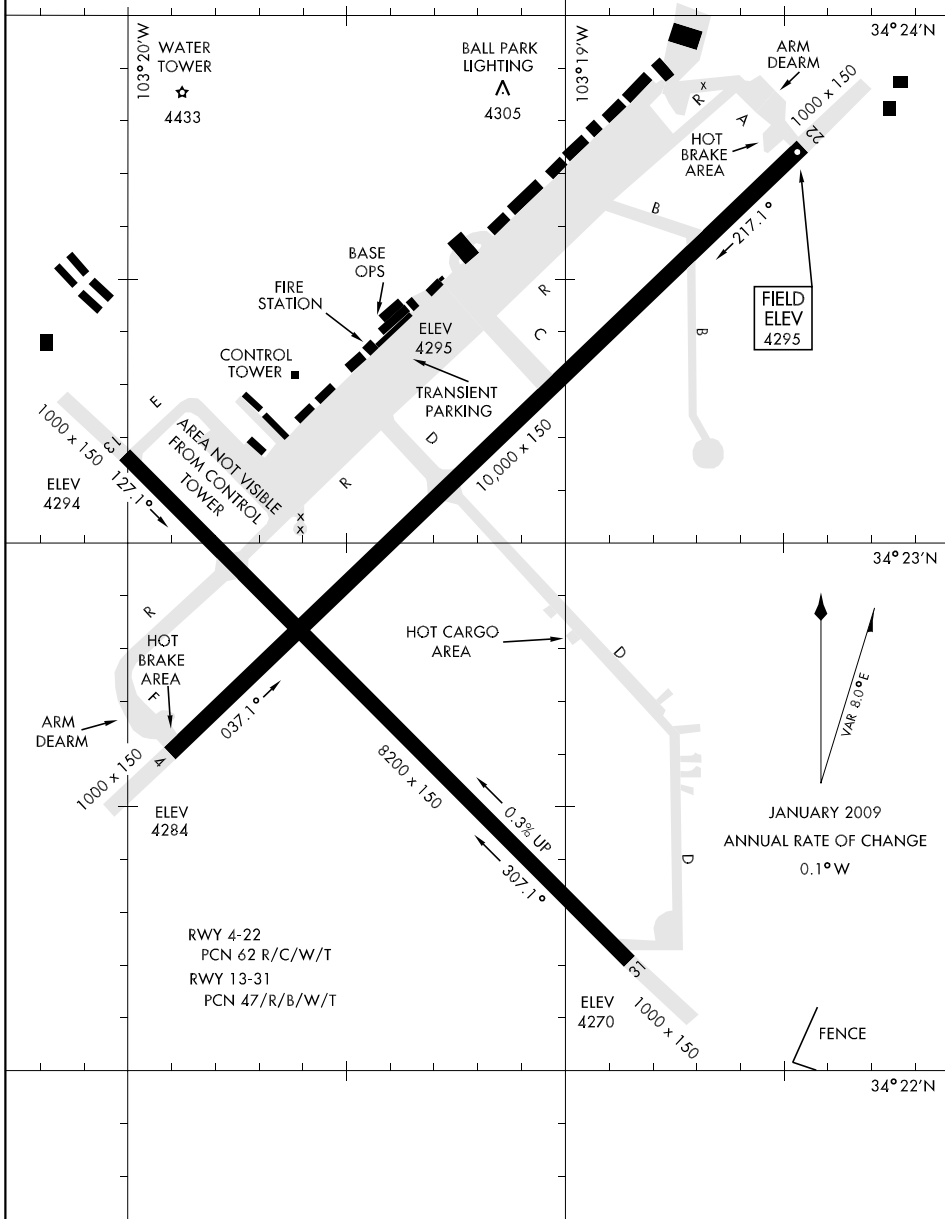
MIRL Rwy 4-22 and 12-30

FAF to MAP 12.1 NM

	Knots	60	90	120	150	180
Min:Sec	12:06	8:04	6:03	4:50	4:02	

ATIS ★ 119.1 269.9
CANNON TOWER ★
120.4 270.25
GND CON
121.9 275.8
CLNC DEL
120.2 293.225

SW-1, 14 JAN 2010 to 11 FEB 2010



LOC I-GLO 108.5	APCH CRS 035°	Rwy Idg 10,000 TDZE 4284 Arpt Elev 4295
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JAL-512 [USAF]

CANNON AFB (KCVS)

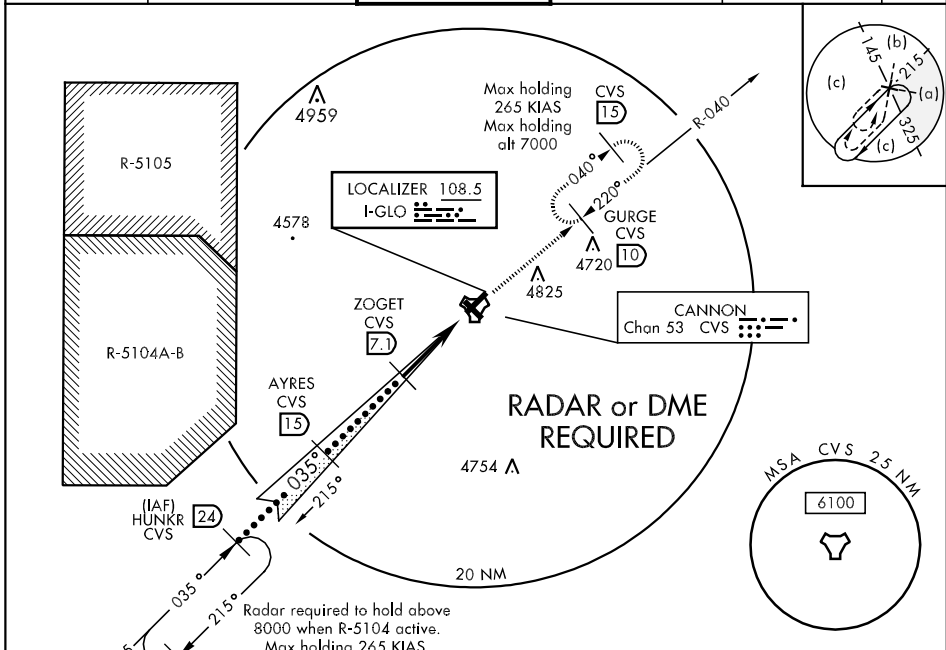
▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT C RVR to 60 and vis to 1 $\frac{1}{2}$ mile,
 CAT DE RVR vis to 1 $\frac{1}{2}$ miles.

ALSIF-1



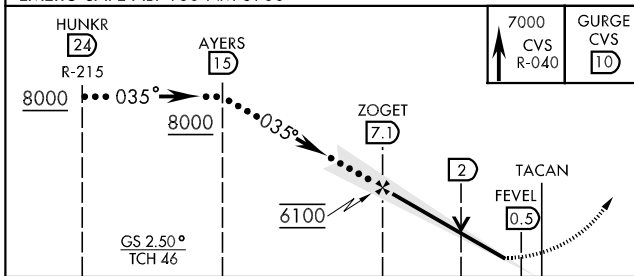
MISSED APPROACH: Climb to 7000 via CVS TACAN R-040 to CVS 10 DME GURGE and hold.

ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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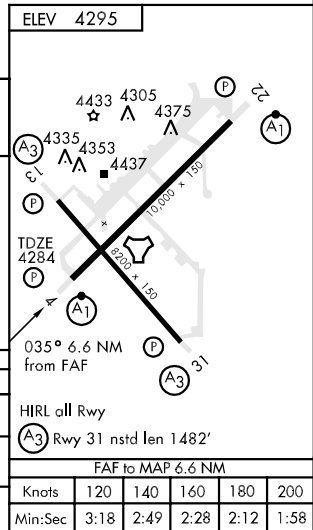


SW-1, 14 JAN 2010 to 11 FEB 2010

EMERG SAFE ALT 100 NM 8900



CATEGORY	C	D	E
S-ILS 4 *	4484/24	200	(200- $\frac{1}{2}$)
S-LOC 4 **	4720/40 436 (500- $\frac{3}{4}$)	4720/50	436 (500-1)
CIRCLING	4780-1 $\frac{1}{2}$ 485 (500-1 $\frac{1}{2}$)	4860-2 565 (600-2)	5020-2 $\frac{1}{2}$ 725 (800-2 $\frac{1}{2}$)



LOC I-QVI
110.35

APCH CR
125°

Rwy Idg	8200
TDZE	4294
Arprt Elev	4295

JAL-512 [USAF]

CANNON AFB (KCVS)



MISSED APPROACH: Climb to 6000 via CVS TACAN R-125 to 10 DME (PELIE) and hold.

ATIS ★
119.1 269.9

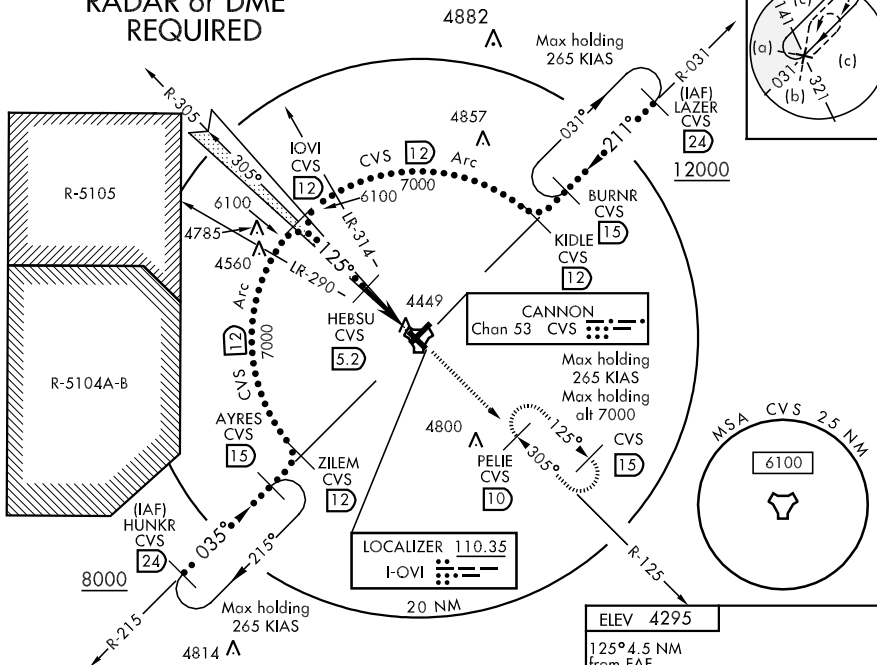
CANNON APP CON
121.05 352.1

CANNON TOWER ★
120.4 270.25

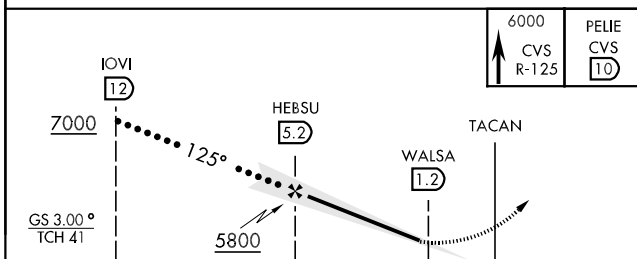
GND CON
121.9 275.8

CLNC DEL
120.2 293.225

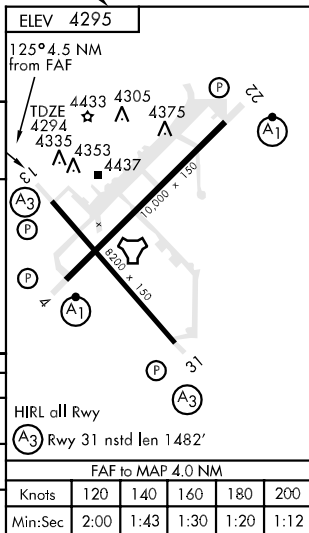
ASR

RADAR or DME
REQUIRED

EMERG SAFE ALT 100 NM 8900



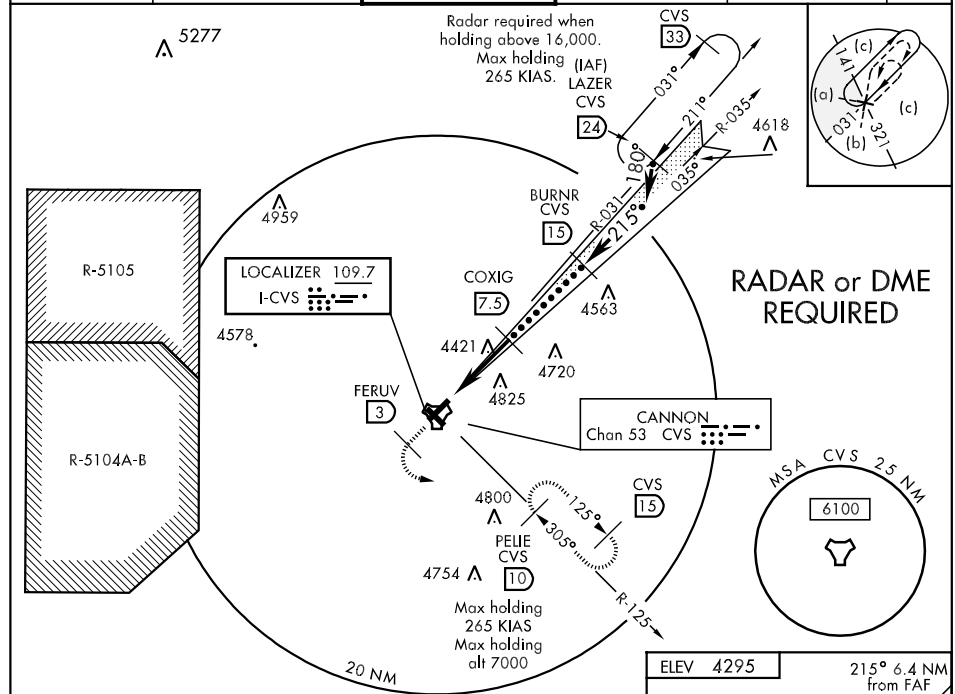
CATEGORY	C	D	E
S-ILS 13	4494- $\frac{3}{4}$ 200 (200- $\frac{3}{4}$)		
S-LOC 13	4700-1 $\frac{1}{4}$	406 (500-1 $\frac{1}{4}$)	4700-1 $\frac{1}{2}$ 406 (500-1 $\frac{1}{2}$)
CIRCLING	4780-1 $\frac{1}{2}$ 485 (500-1 $\frac{1}{2}$)	4860-2 565 (600-2)	5020-2 $\frac{1}{2}$ 725 (800-2 $\frac{1}{2}$)



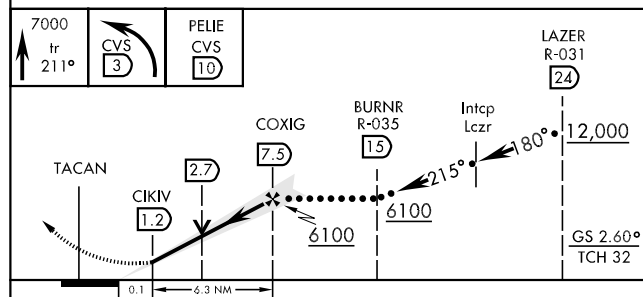
LOC I- CVS 109.7	APCH CRS 215°	Rwy Idg 10,000 TDZE 4295 Arpt Elev 4295	JAL-512 [USAF]	CANNON AFB (KCVS)
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▼ * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT DE to vis to $1\frac{1}{2}$ miles.	ALSF-1 	MISSED APPROACH: Climb to 7000 via track 211°. At 3 DME (FERUV) turn left intercept CVS TACAN R-125 direct CVS R-125/10 DME (PELIE) and hold.
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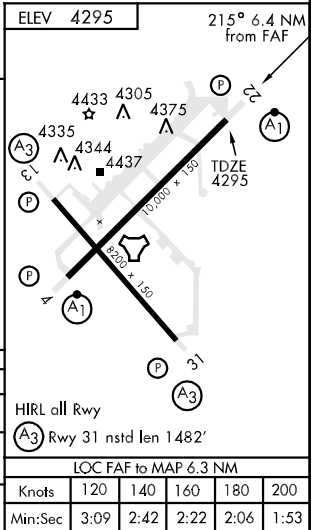
ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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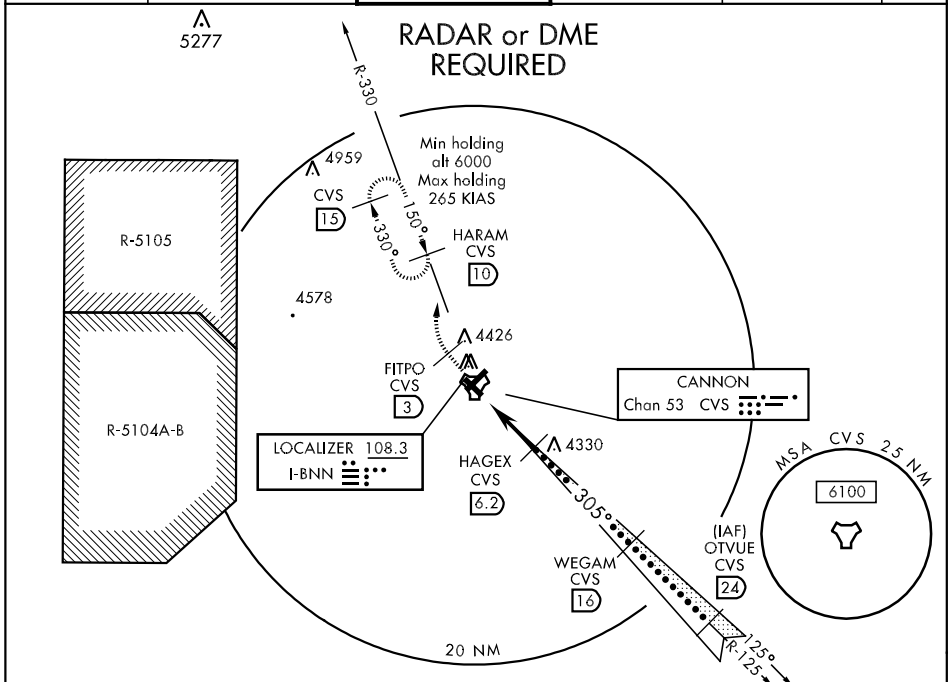
EMERG SAFE ALT 100 NM 8900



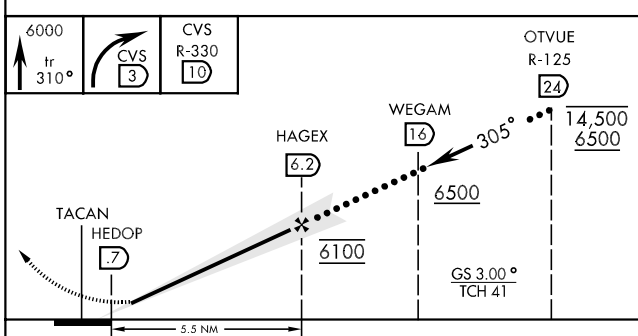
CATEGORY	C	D	E
S-ILS 22 *	4495/24	200	(200-1/2)
S-LOC 22 **	4740/40 445 (500-3/4)	4740/50 445 (500-1)	
CIRCUING	4780-1 1/2 485 (500-1 1/2)	4860-2 565 (600-2)	5020-2 1/2 725 (800-2 1/2)



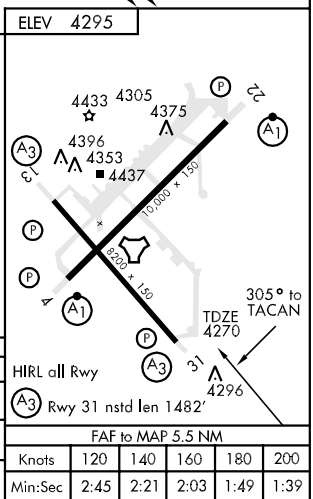
ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR



EMERG SAFE ALT 100 NM 8900



CATEGORY	C	D	E
S-ILS 31	4470- $\frac{3}{4}$	200	(200- $\frac{3}{4}$)
S-LOC 31 *	4600- $\frac{3}{4}$	330	(400- $\frac{3}{4}$)
CIRCLING	4780-1 $\frac{1}{2}$ 485 (500-1 $\frac{1}{2}$)	4860-2 565 (600-2)	5020-2 $\frac{1}{2}$ 725 (800-2 $\frac{1}{2}$)



TACAN CVS Chan 53	APCH CRS 045°	Rwy ldg 10,000 TDZE 4284 Arpt Elev 4295
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JAL-512 [USAF]

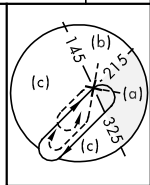
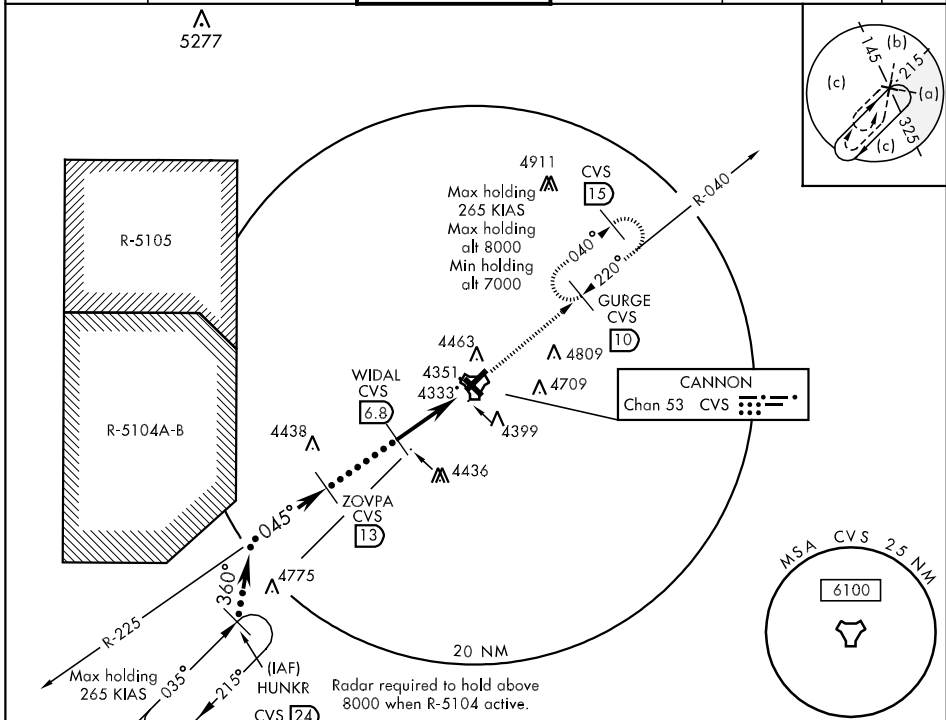
CANNON AFB (KCVS)

▼ * When ALS inop, increase CAT C RVR to 60 and vis to 1¼ mile, CAT DE vis to 1½ miles.

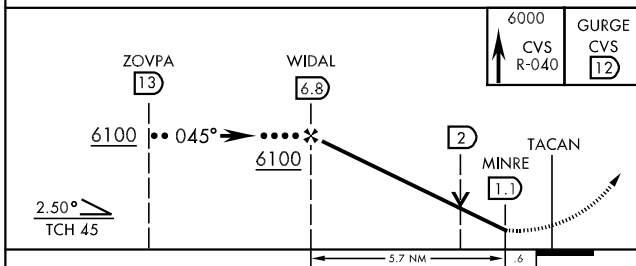


MISSED APPROACH: Climb to 6000 out CVS R-040 to 10 DME (GURGE) and hold.

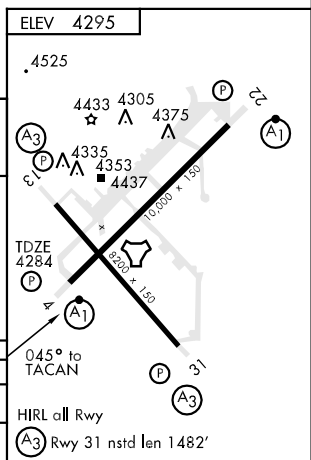
ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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EMERG SAFE ALT 100 NM 8900



CATEGORY	C	D	E
S-4 *	4720/40 436 (500-¾)	4720/50 436 (500-1)	5020-2½ 725 (800-2½)
CIRCLING	4840-1½ 545 (600-1½)	4860-2 565 (600-2)	5020-2½ 725 (800-2½)



TACAN CVS Chan 53	APCH CRS 117°	Rwy Idg TDZE Arpt Elev 8200 4294 4295
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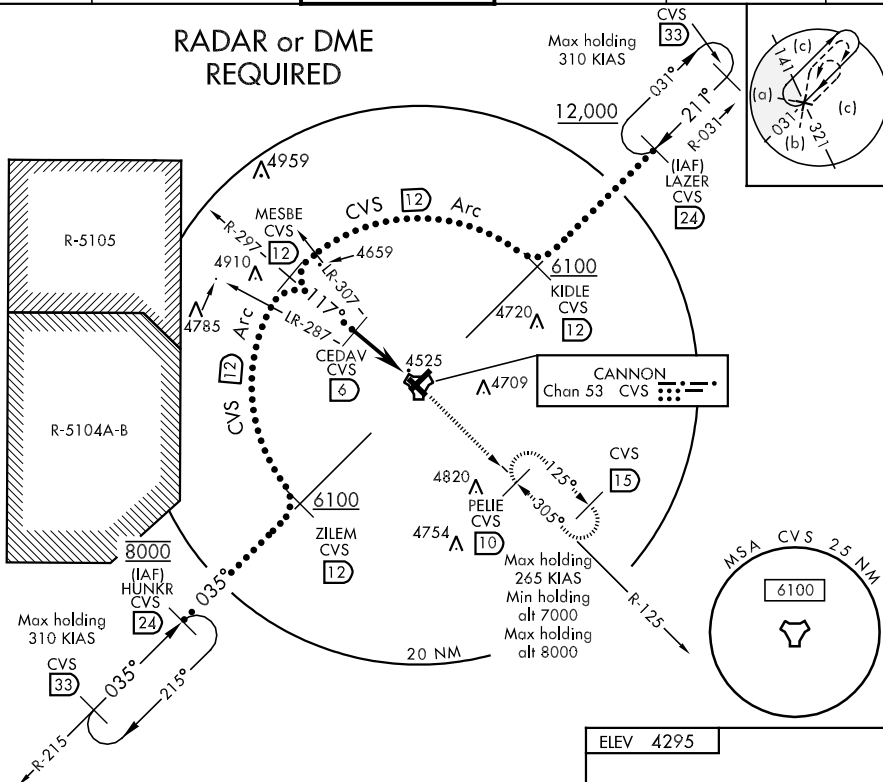
JAL-512 [USAF]

CANNON AFB (KCVS)

▼ * When ALS inop, increase CAT C vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.	SSAIR (A3)
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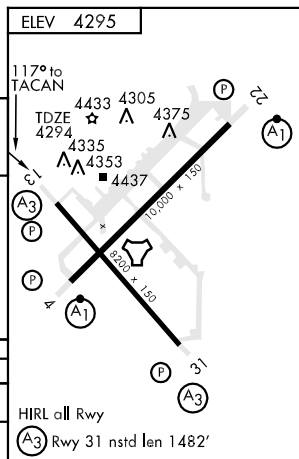
 MISSED APPROACH: Climb to 7000 via CVS
TACAN R-125 to 10 DME (PELIE) and hold.

ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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RADAR or DME
REQUIRED

EMERG SAFE ALT 100 NM 8900

	MESBE R-297 12	CEDAV 6	7000 CVS R-125	PELIE CVS 10
	6100	6100		
	117°			
	3.00°			
	TCH 30			
		4.7 NM	6 NM	
CATEGORY	C	D	E	
S-13 *	4780-¾ 486 (500-¾)	4780-1 486 (500-1)	4780-1¼ 486 (500-1¼)	
CIRCLING	4840-1½ 545 (600-1½)	4860-2 565 (600-2)	5020-2½ 725 (800-2½)	



TACAN CVS Chan 53	APCH CRS 209°	Rwy ldg 10,000 TDZE 4295 Arpt Elev 4295
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JAL-512 [USAF]

CANNON AFB (KCVS)

▲ * When ALS inop, increase CAT C RVR to 60 and vis to 1 1/4 miles, CAT D vis to 1 1/2 miles and CAT E vis to 1 3/4 miles.



MISSED APPROACH: Climb to 6000 via track 211°. At 3 DME (FERUV) turn left intercept CVS TACAN R-125 to 10 DME (PELIE) and hold.

ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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RADAR REQUIRED

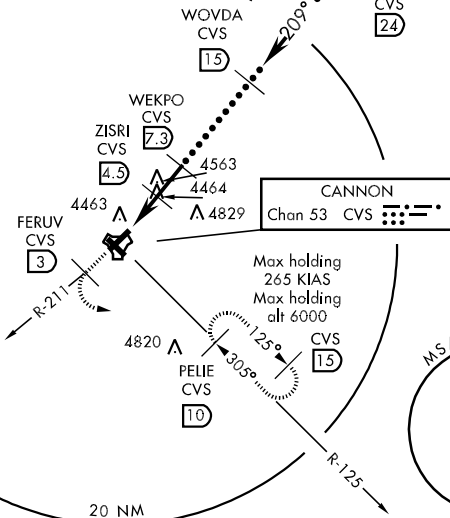
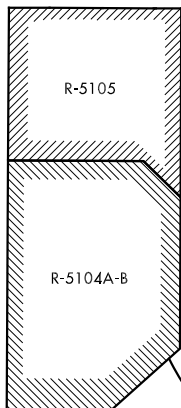
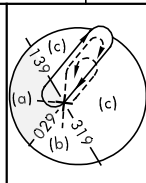
▲
5277

Radar required when holding
holding above 16,000.

Max holding
310 KIAS
Max holding
alt 14,000

CVS
33

R-029
209°
WURUS
CVS
24



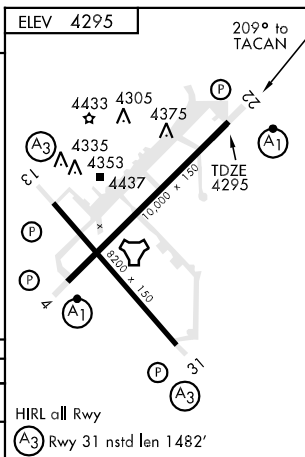
Max holding
265 KIAS
Max holding
alt 6000

CVS
15

MSA CVS 2.5 NM
6100

EMERG SAFE ALT 100 NM 8900

6000 fr 211°	CVS 3	PELIE CVS 10	WURUS R-029 24	12,000
TACAN	ZORUB 1.7	ZISRI 4.5	WEKPO 7.3	WOVDCA 15
	5200	6100	6100	≤ 2.60° TCH 30
CATEGORY	C	D	E	
S-22 *	4760/40 465 (500-3/4)	4760/50 465 (500-1)	4760/60 465 (500-1 1/4)	
CIRCLING	4840-1 1/2 545 (600-1 1/2)	4860-2 565 (600-2)	5020-2 1/2 725 (800-2 1/2)	



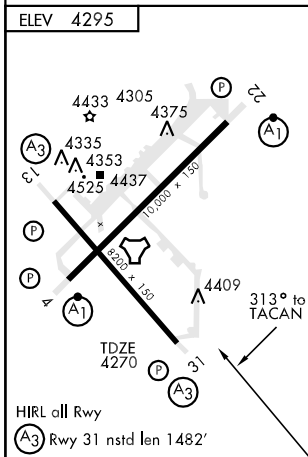
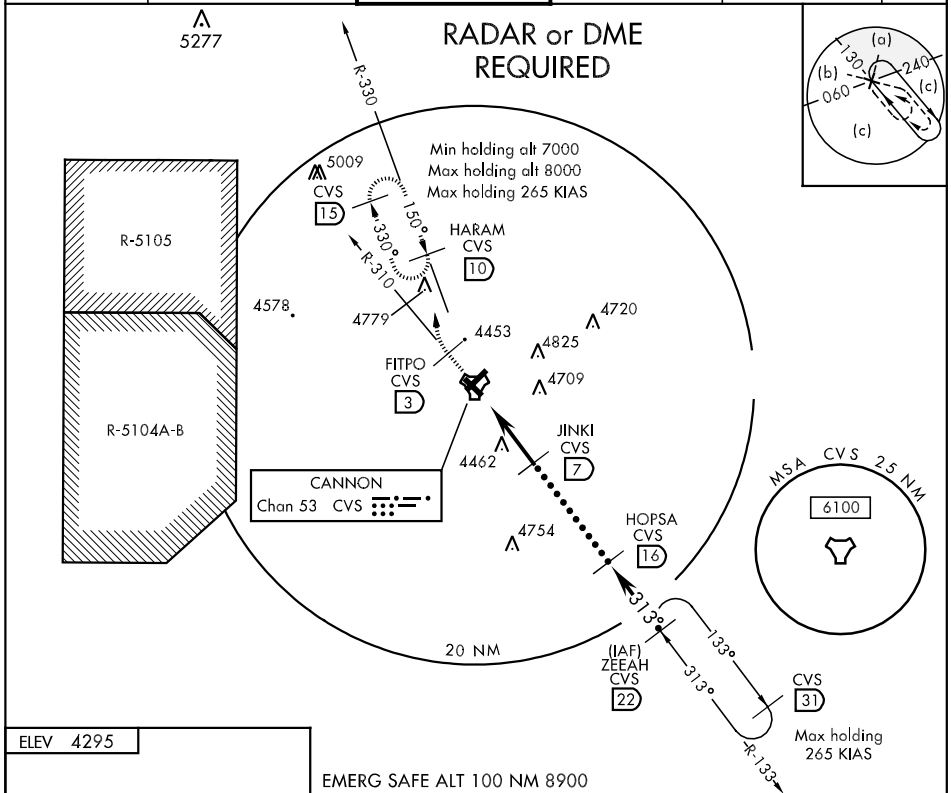
TACAN CVS Chan 53	APCH CRS 313°	Rwy ldg TDZE 4270 Arpt Elev 4295
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JAL-512 [USAF]

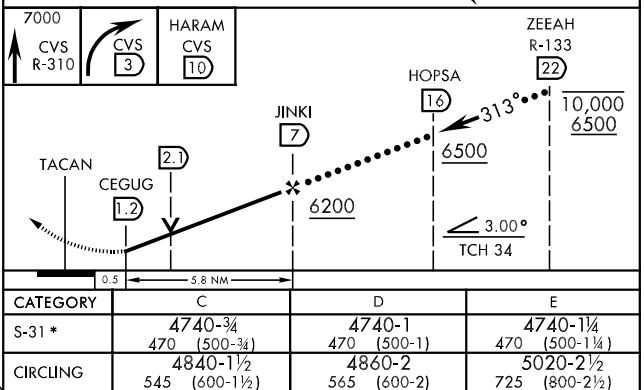
CANNON AFB (KCVS)

▼ * When ALS inop, increase CAT C vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.	SSAIR A3	MISSED APPROACH: Climb to 7000 out CVS TACAN R-310 to 3 DME (FITPO) turn right direct CVS R-330/10 DME (HARAM) and hold.
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ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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EMERG SAFE ALT 100 NM 8900



LOC I-GLO 108.5	APCH CRS 035°	Rwy Idg 10,000 TDZE 4284 Arprt Elev 4295	AL-512 [USAF]	CANNON AFB (KCVS)
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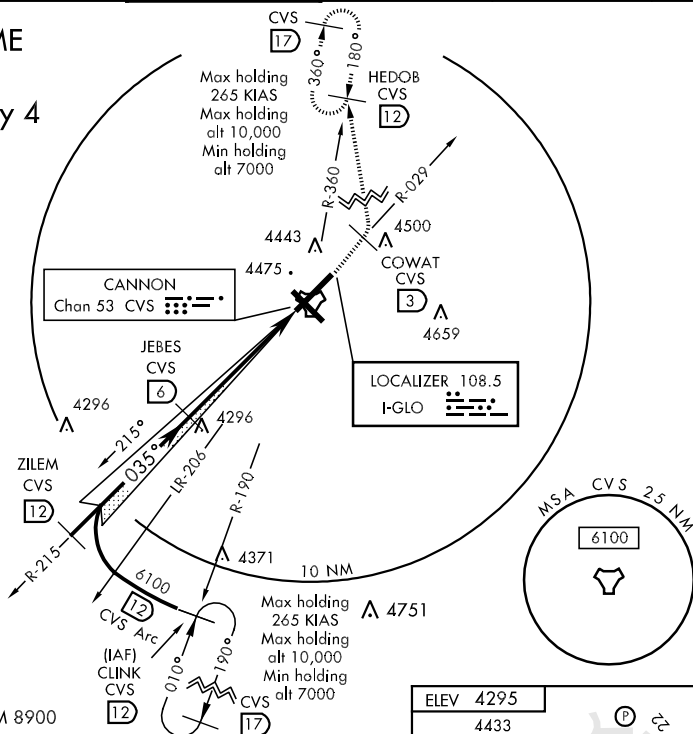
T * When ALS inop, increase all CAT RVR to 40 and vis to $\frac{3}{4}$ miles.
 ** When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT D RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT E vis to $1\frac{1}{2}$ miles.



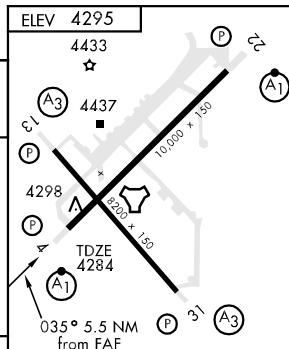
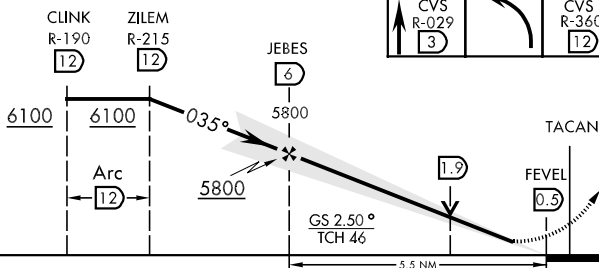
MISSED APPROACH: Climb to 7000 out CVS
TACAN R-029, at 3 DME then turn left to CVS
R-360/12 DME (HEDOB) and hold.

ATIS ★	CANNON APP CON	CANNON TOWER ★	GND CON	CLNC DEL	ASR
119.1 269.9	121.05 352.1	120.4 270.25	121.9 275.8	120.2 293.225	

RADAR or DME
REQUIRED
FOR S-LOC Rwy 4



EMERG SAFE ALT 100 NM 8900



CATEGORY	A	B	C	D	E	HIRL all Rwy (A3) Rwy 31 nstd len 1482' FAF to MAP 5.5 NM Knots 60 90 120 150 180 Min:Sec 5:30 3:40 2:45 2:12 1:50
S-ILS 4 *	4484/24		200		(200-½)	
S-LOC 4 **	4680/24 396 (400-½)		4680/40 396 (400-¾)		4680/50 396 (400-1)	
CIRCLING	4840-1 545 (600-1)		4840-1½ 545 (600-1½)	4860-2 565 (600-2)	5020-2½ 725 (800-2½)	

TACAN CVS Chan 53	APCH CRS 209°	Rwy ldg 10,000 TDZE 4295 Arpt Elev 4295
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AL-512 [USAF]

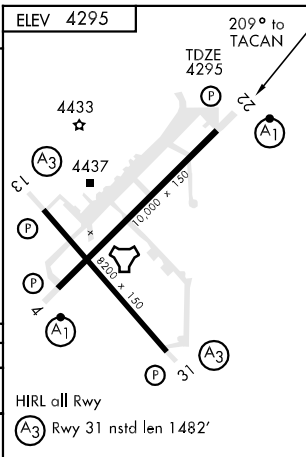
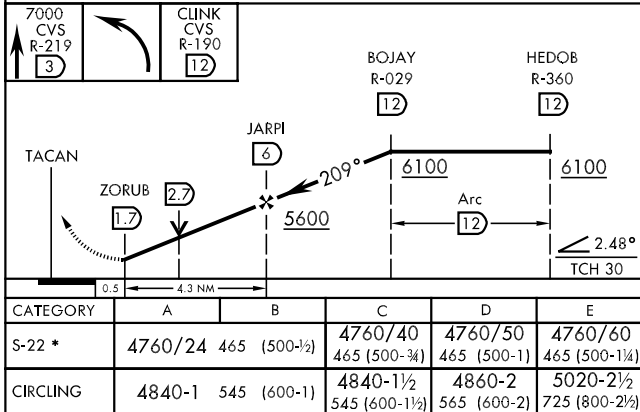
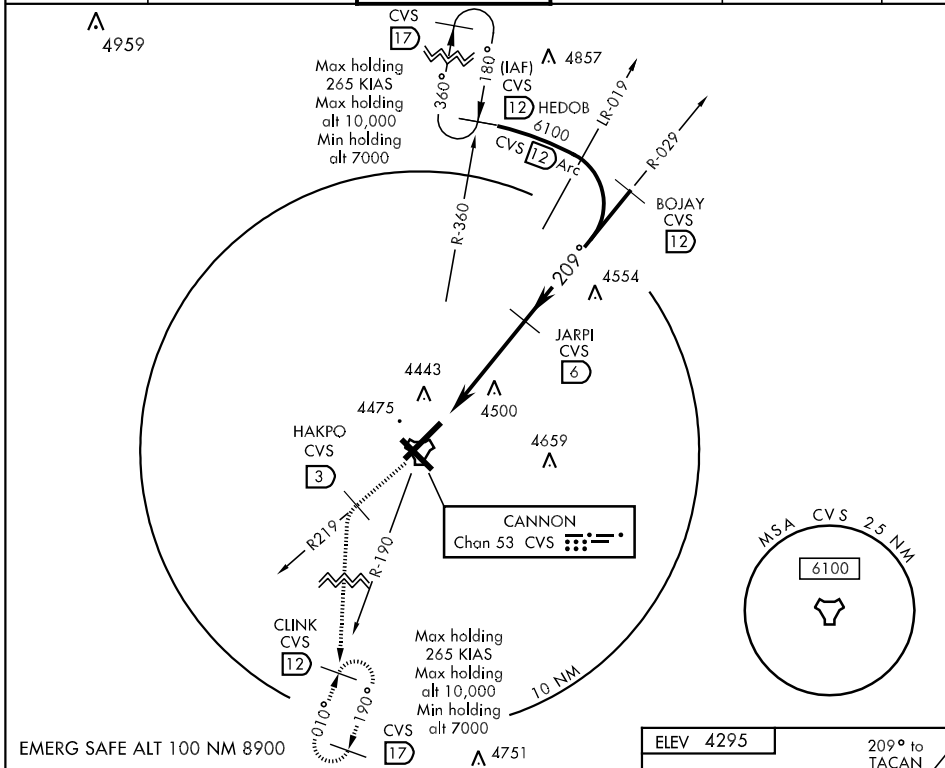
CANNON AFB (KCVS)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles
CAT E vis to 1¾ miles.



MISSED APPROACH: Climb to 7000 out
CVS TACAN R-219, at 3 DME then turn
left to CVS R-190/12 (CLINK) and hold.

ATIS ★ 119.1 269.9	CANNON APP CON 121.05 352.1	CANNON TOWER ★ 120.4 270.25	GND CON 121.9 275.8	CLNC DEL 120.2 293.225	ASR
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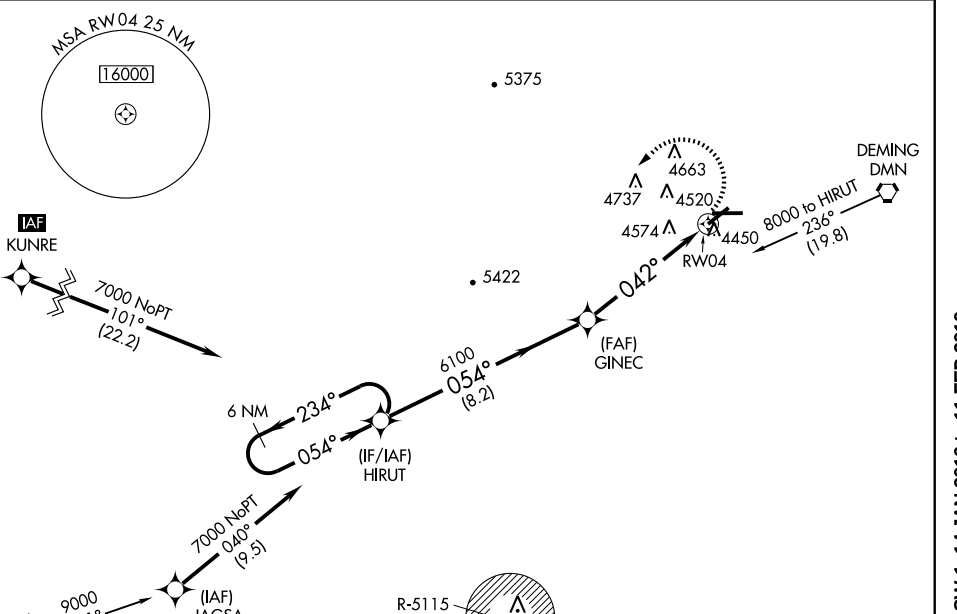
▼

▲

If local altimeter setting not received, use Las Cruces Intl altimeter setting and increase all MDAs 120 feet.
DME/DME RNP-0.3 NA.
IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing left turn to 7000 direct HIRUT and hold.

ASOS 118.525	ALBUQUERQUE CENTER 128.2 285.5	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrivals at ANIMA via V16-66 westbound.

6 NM Holding Pattern

HIRUT

* VDP NA when using Las Cruces Intl altimeter setting

7000

HIRUT

GINEC

* 1.7 NM to RW04

3.00° TCH 40

RW04

6100

042°

8.2 NM

3.8 NM

1.7 NM

ELEV 4314

6627' X 75'

5575' X 60'

TDZE 4312

042° to RW04

0.3% UP

CATEGORY	A	B	C	D
LNAV MDA	4880-1	568 (600-1)	4880-1½ 568 (600-1½)	4880-1¾ 568 (600-1¾)
CIRCLING	4880-1 566 (600-1)	4940-1 626 (700-1)	4940-1¾ 626 (700-1¾)	4940-2 626 (700-2)

MIRL Rwy 4-22 and 8-26 1

SW-1, 14 JAN 2010 to 11 FEB 2010

▼

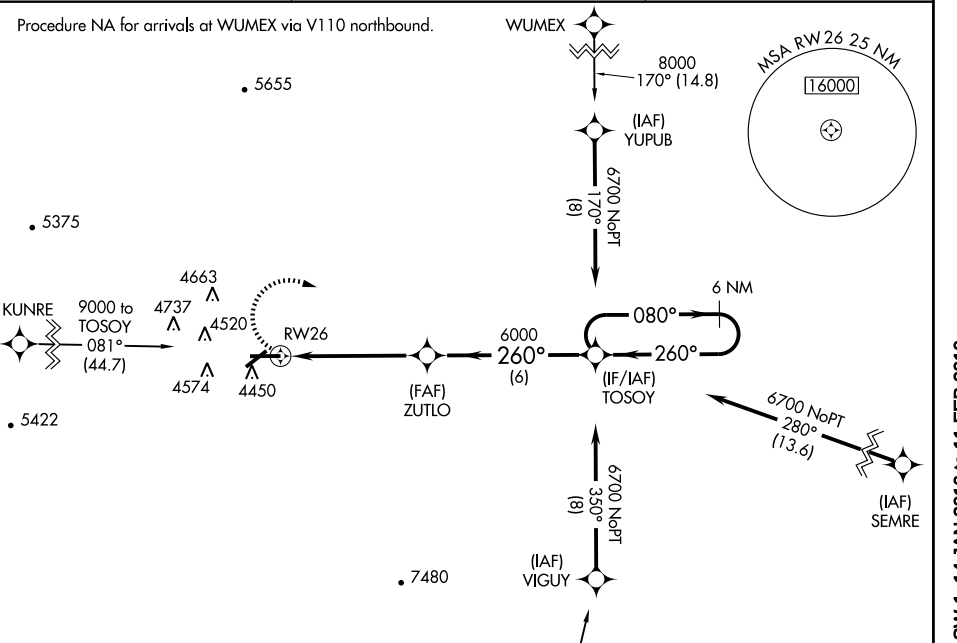
If local altimeter setting not received, use Las Cruces Intl altimeter setting and increase all MDAs 120 feet.

▲

DME/DME RNP: 0.3 NA.

MISSED APPROACH: Climbing right turn to 6700 direct TOSOY and hold.

ASOS 118.525	ALBUQUERQUE CENTER 128.2 285.5	UNICOM 122.8 (CTAF)
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R-5115
 15000

6700
 TOSOY

ELEV 4314

260° to RW26
 6627 X 75
 -0.3% UP
 TDZE 4303

6700
 TOSOY

6 NM Holding Pattern

ZUTLO

080°
 260°
 6700

*VDP NA when using Las Cruces Intl altimeter setting.

*1.2 NM to RW26
 3.01°
 TCH 40

RW26

6000

1.2 NM
 4 NM
 6 NM

CATEGORY	A	B	C	D
RNAV MDA	4720-1	417 (500-1)	4720-1¼ 417 (500-1¼)	
CIRCLING	4820-1 506 (600-1)	4940-1 626 (700-1)	4940-1¾ 626 (700-1¾)	4940-2 626 (700-2)

MIRL Rwy 4-22 and 8-26

SW-1. 14 JAN 2010 to 11 FEB 2010

VORTAC DMN 108.6 Chan 23	APP CRS 250°	Rwy Idg 6627 TDZE 4303 Apt Elev 4314
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VOR RWY 26
DEMING MUNI (DMN)

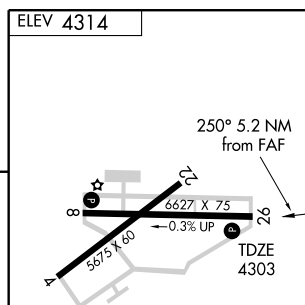
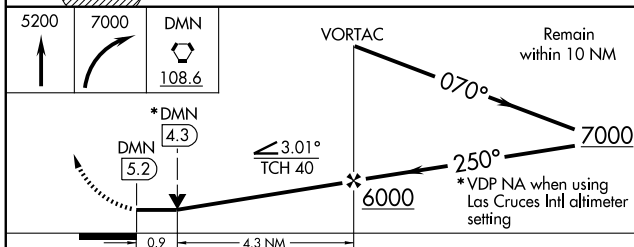
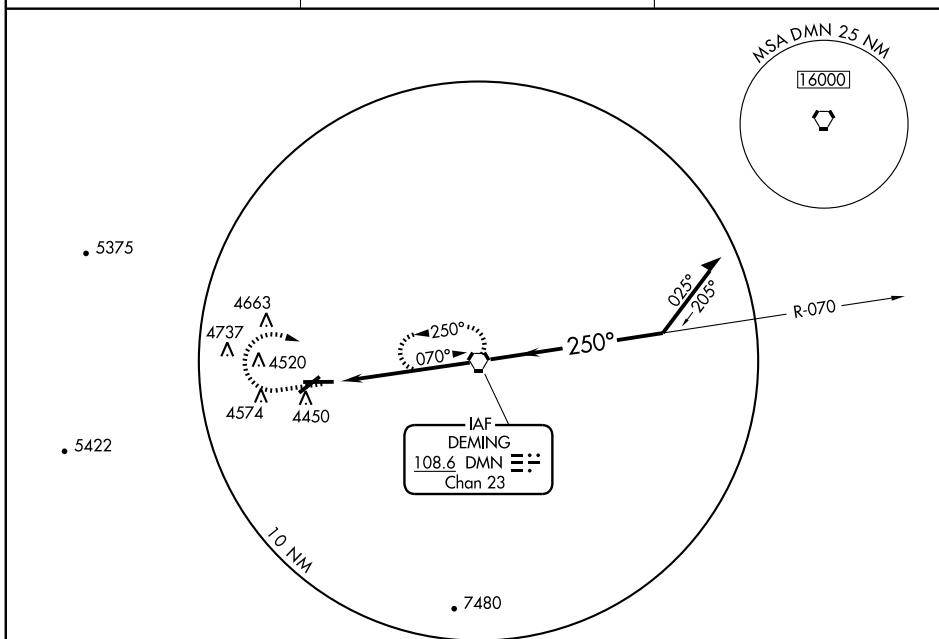
T If local altimeter setting not received, use Las Cruces Intl altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climb to 5200 then climbing right turn to 7000 direct DMN VORTAC and hold.

ASOS
118.525

ALBUQUERQUE CENTER
128.2 285.5

UNICOM
122.8 (CTAF) **L**

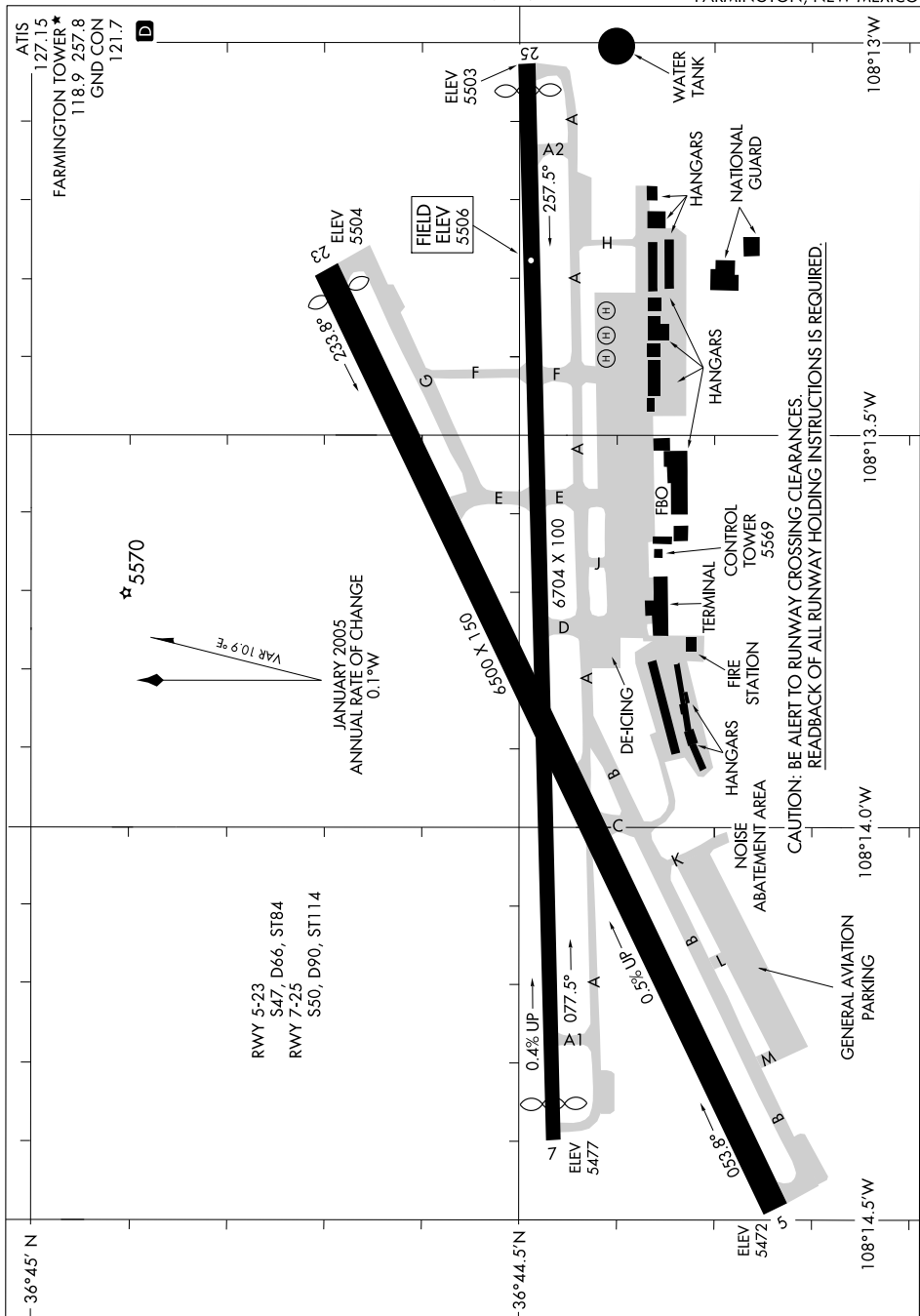


CATEGORY	A	B	C	D
S-26	4640-1 337 (400-1)			
CIRCLING	4820-1 506 (600-1)	4940-1 626 (700-1)	4940-1 $\frac{3}{4}$ 626 (700- $\frac{3}{4}$)	4940-2 626 (700-2)

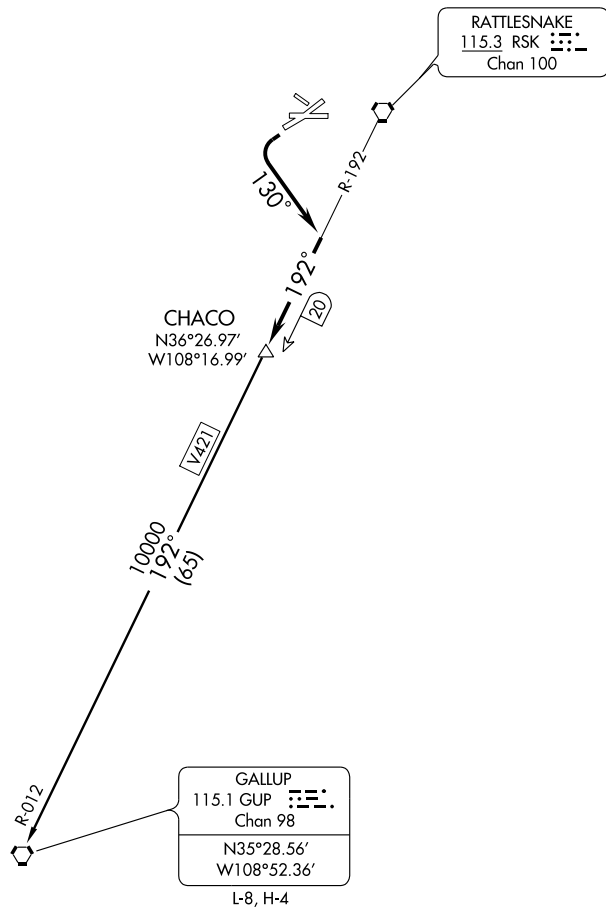
MIRL Rwy's 4-22 and 8-26 L					
FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

AIRPORT DIAGRAM

AL-493 (FAA) FARMINGTON/FOUR CORNERS RGNL (FMN)
FARMINGTON, NEW MEXICO



ATIS 127.15
GND CON
121.7
FARMINGTON TOWER
118.9 (CTAF) 257.8
DENVER CENTER
118.575 348.7
UNICOM 122.95



NOTE: Chart not to scale.

NOTE: DME required.

NOTE: This SID requires a minimum climb of 290' per NM to 6500' for Rwy 23 departure.



DEPARTURE ROUTE DESCRIPTION

Aircraft departing Runways 23 or 25 turn left heading 130° to intercept RSK R-192 to CHACO. Thence via (assigned route).

GALLUP TRANSITION (CHACO1.GUP): From over CHACO via the RSK R-192 and GUP R-012 to GUP VORTAC.

LOC/DME I-FMN	APP CRS	Rwy Idg	6277
111.9	256°	TDZE	5506
Chan 56		Apt Elev	5506

FARMINGTON/ FOUR CORNERS RGNL (F'MN)

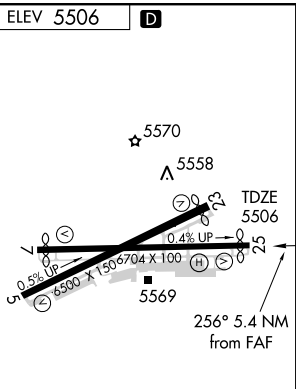
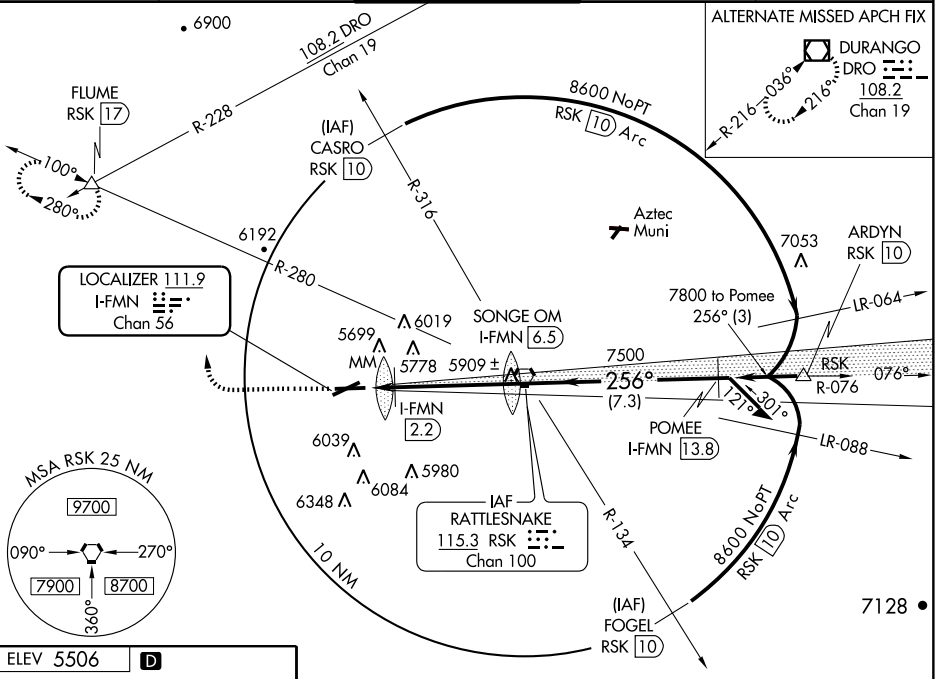
⚠

Cat D circling not authorized southeast of Rwy 5 and 25.

⚠

MISSED APPROACH: Climb to 6100 then climbing right turn to 9000 via heading 321° and RSK R-280 to FLUME INT and hold.

ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER ★ 118.9 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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REIL Rwy 23 and 25
MIRL Rwy 5-23 and 7-25

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

6100 ↑		9000 ↗ RSK R-280 321° 115.3		FLUME △		VORTAC SONGE OM I-FMN 6.5 7306		Remain within 10 NM of VORTAC	
I-FMN 1.1		I-FMN 2.2		MM		7500		8300	
0.4		0.7		4.3 NM		GS 3.00° TCH 58		Use I-FMN DME when on LOC course.	
CATEGORY		A		B		C		D	
S-ILS 25				5706-¾		200 (200-¾)			
S-LOC 25		5880-1		374 (400-1)				5880-1¼ 374 (400-1¼)	
CIRCLING		6000-1 494 (500-1)		6120-1 614 (700-1)		6160-1¾ 654 (700-1¾)		6160-2 654 (700-2)	
DME MINIMUMS									
S-LOC 25		5780-1		274 (300-1)					
CIRCLING		6000-1 494 (500-1)		6120-1 614 (700-1)		6160-1¾ 654 (700-1¾)		6160-2 654 (700-2)	

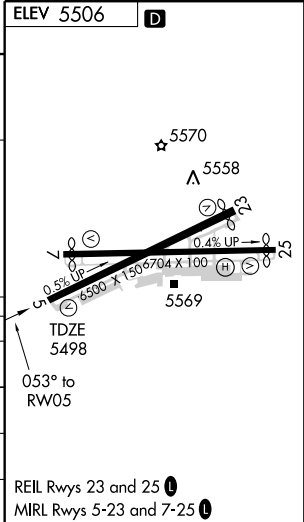
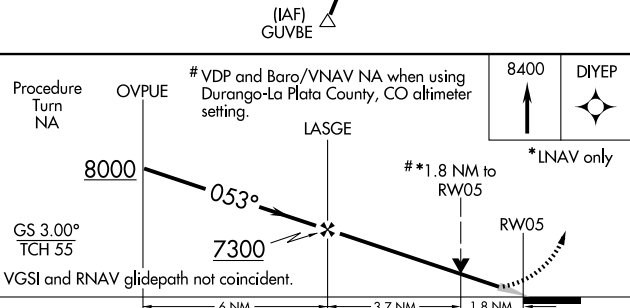
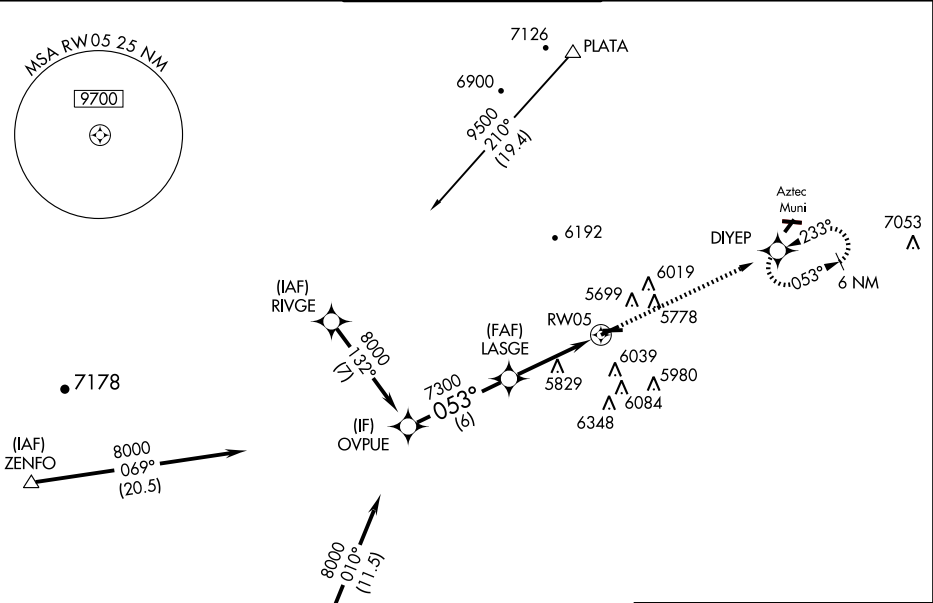
RIZAL TRANSITION (PLATA1.RIZAL): From over PLATA INT via DRO R-235 to RIZAL INT.

WAAS Chan 86210	APP CRS 053°	Rwy Idg TDZE Apt Elev	6375 5498 5506
W05A			

⚠ Cat D circling not authorized southeast of Rwy 5 and 25.
⚠ Baro-VNAV NA below -26°C (-14°F).
DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Durango-La Plata County, CO
altimeter setting and increase all DAs/MDAs 260 feet.

MISSED APPROACH: Climb to 8400 direct DIYEP
and hold.

ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER★ 118.9 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	5750-1 252 (300-1)			
LNAV/VNAV DA	5920-1½ 422 (500-1½)			
LNAV MDA	6100-1 602 (600-1)	6100-1¾ 602 (600-1¾)	6100-2 602 (600-2)	
CIRCLING	6100-1½ 594 (600-1½)	6120-1½ 614 (700-1½)	6160-1¾ 654 (700-1¾)	6160-2 654 (700-2)

SW-1. 14 JAN 2010 to 11 FEB 2010

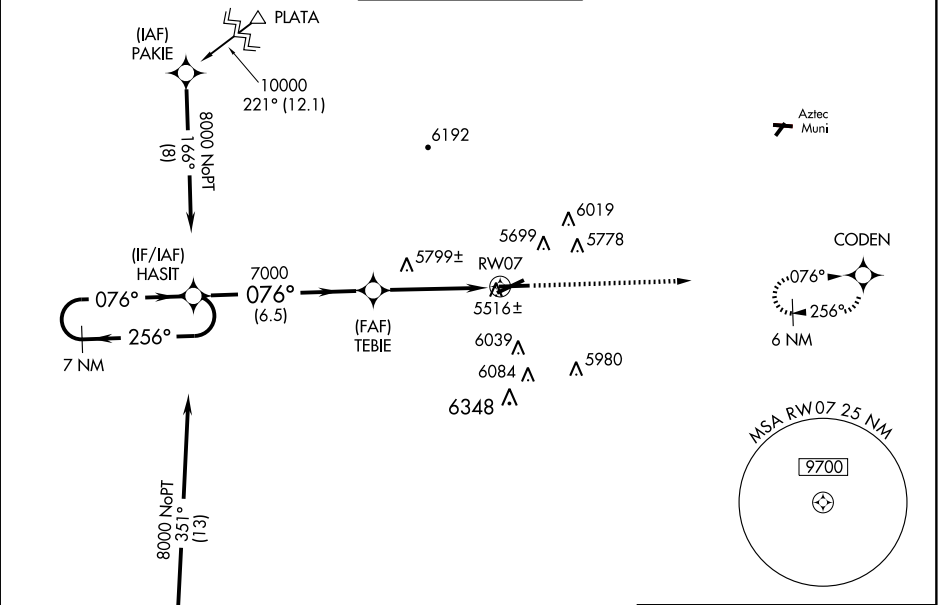
WAAS CH 90110 W07A	APP CRS 076°	Rwy Idg TDZE Apt Elev 6277 5502 5506
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RNAV (GPS) RWY 7
FARMINGTON/ FOUR CORNERS RGNL (F'MN)

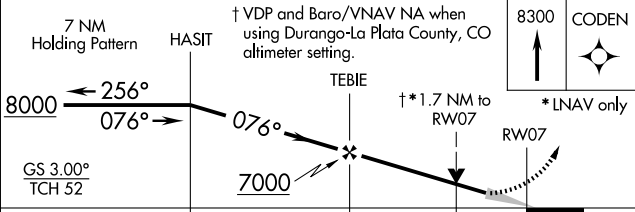
⚠ Cat D circling not authorized southeast of Rwy 5 and 25.
⚠ Baro-VNAV NA below -26°C (-14°F).
DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Durango-La Plata County, CO
altimeter setting and increase all DAs/MDAs 260 feet.

MISSED APPROACH: Climb to
8300 direct CODEN and hold.

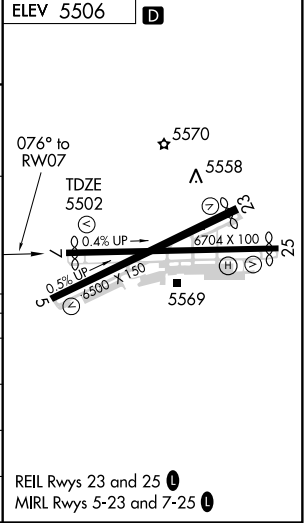
ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER★ 118.9(CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Procedure NA for arrivals at DERMA
via V95 southwest bound.



CATEGORY	A	B	C	D
LPV DA	5760-1 258 (300-1)			
RNAV/ VNAV DA	5980-1¾ 478 (500-1¾)			
RNAV MDA	6060-1	558 (600-1)	6060-1½ 558 (600-1½)	6060-1¾ 558 (600-1¾)
CIRCLING	6060-1¾ 554 (600-1¾)	6120-1¾ 614 (700-1¾)	6160-1¾ 654 (700-1¾)	6160-2 654 (700-2)



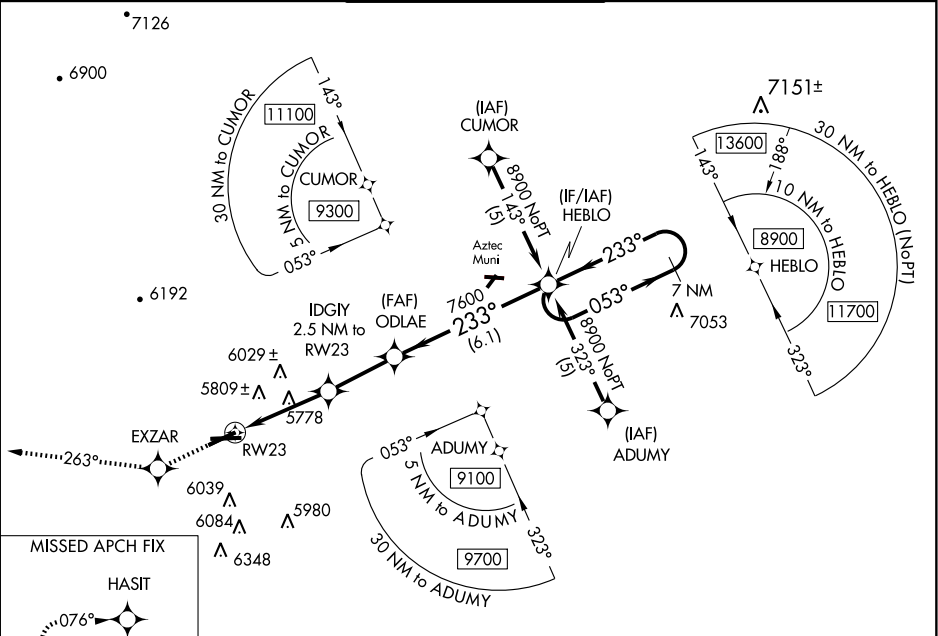
WAAS CH 70714 W23A	APP CRS 233°	Rwy Idg TDZE Apt Elev	6375 5504 5506
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RNAV (GPS) RWY 23
FARMINGTON/ FOUR CORNERS RGNL (F'MN')

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 38°C (100°F).
⚠ Circling NA Cat D southeast of Rws 5 and 25.
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8000 direct EXZAR and via track 263° to HASIT and hold.

ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER★ 118.9 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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8000 EXZAR trk 263° HASIT * LNAV only 7 NM Holding Pattern

ODLAE HEBLO

IDGIY 2.5 NM to RW23

* 2 NM to RW23

RW23

6340*

7600

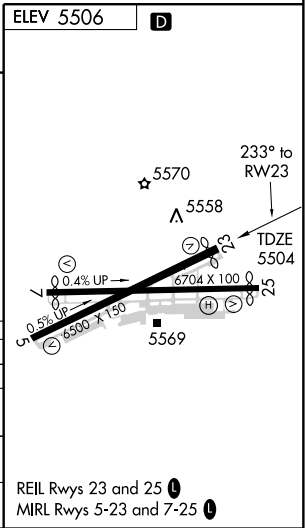
053° → 8900

← 233°

GS 3.00° TCH 46

2 NM 0.5 NM 3.8 NM 6.1 NM

CATEGORY	A	B	C	D
LPV DA	5798-1		294 (300-1)	
LNAV/VNAV DA	6138-2¼		634 (700-2¼)	
LNAV MDA	6180-1 676 (700-1)		6180-2 676 (700-2)	6180-2¼ 676 (700-2¼)
CIRCLING	6180-1 674 (700-1)		6180-2 674 (700-2)	6180-2¼ 674 (700-2¼)



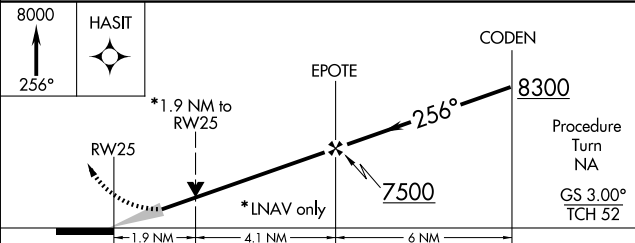
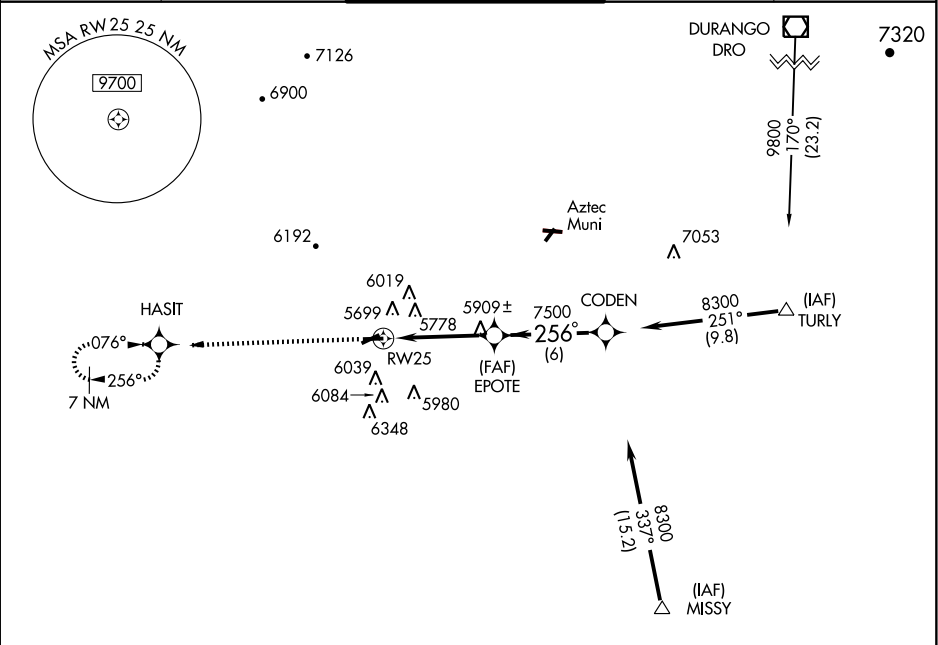
APP CRS	Rwy Idg	6277
256°	TDZE	5506
	Apt Elev	5506

RNAV (GPS) RWY 25

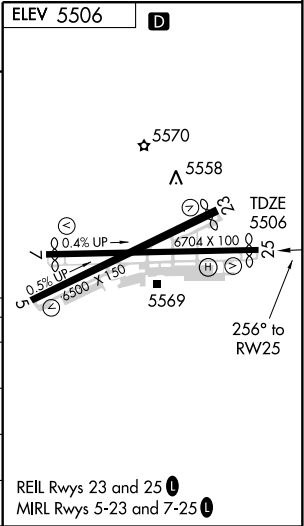
FARMINGTON/ FOUR CORNERS RGNL (F'MN)

 Baro-VNAV NA below -26°C (-14°F)	MISSED APPROACH: Climb to 8000 via 256° course to HASIT WP and hold.
 DME/DME RNP- 0.3 NA. Cat D circling not authorized southeast of Rwy 5 and 25.	

ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER★ 118.9 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/ VNAV DA	5860-1¼ 354 (400-1¼)			
LNAV MDA	6160-1 654 (700-1)	6160-1¼ 654 (700-1¼)	6160-2 654 (700-2)	
CIRCLING	6160-1¼ 654 (700-1¼)	6160-1¼ 654 (700-1¼)	6160-2 654 (700-2)	



VORTAC RSK 115.3 Chan 100	APP CRS 070°	Rwy Idg 6375 TDZE 5498 Apt Elev 5506
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VOR/DME RWY 5
FARMINGTON/FOUR CORNERS RGNL (FMN)

T Cat D circling not authorized southeast of Rwy 5 and 25.

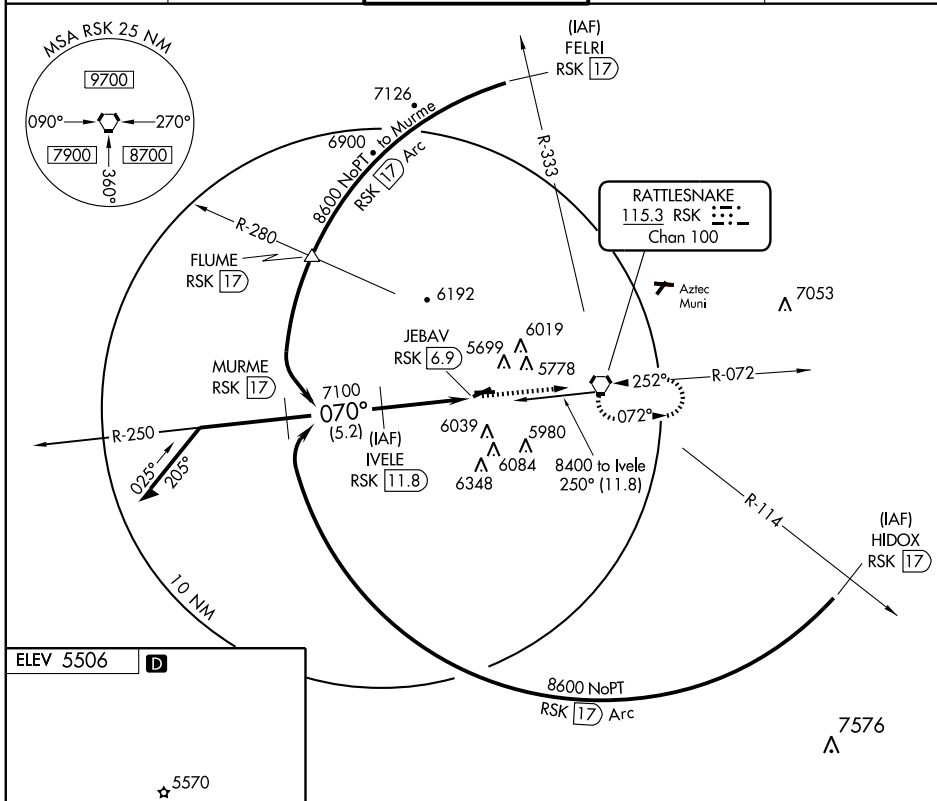
MISSED APPROACH: Climb to 8300 direct RSK VORTAC and hold.

ATIS
127.15

DENVER CENTER
118.575 348.7

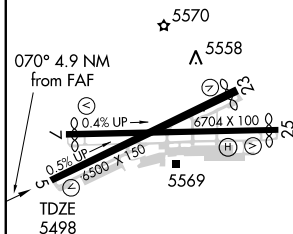
FARMINGTON TOWER★
118.9 (CTAF) **L** 257.8

GND CON
121.7

UNICOM
122.95

ELEV 5506

D

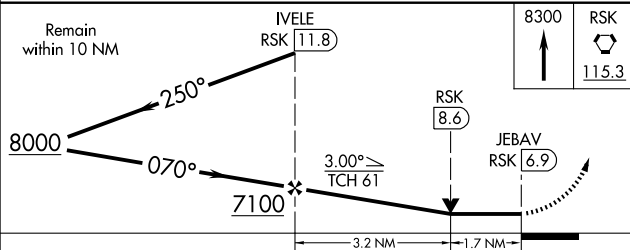
REIL Rwy 23 and 25 **L**

MIRL Rwy 5-23 and 7-25 L

FAF to MAP 4.9 NM

Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

Remain
within 10 NM



CATEGORY	A	B	C	D
S-5	6060-1	562 (600-1)	6060-1½ 562 (600-1½)	6060-1¾ 562 (600-1¾)
CIRCLING	6060-1 554 (600-1)	6120-1 614 (700-1)	6160-1¾ 654 (700-1¾)	6160-2 654 (700-2)

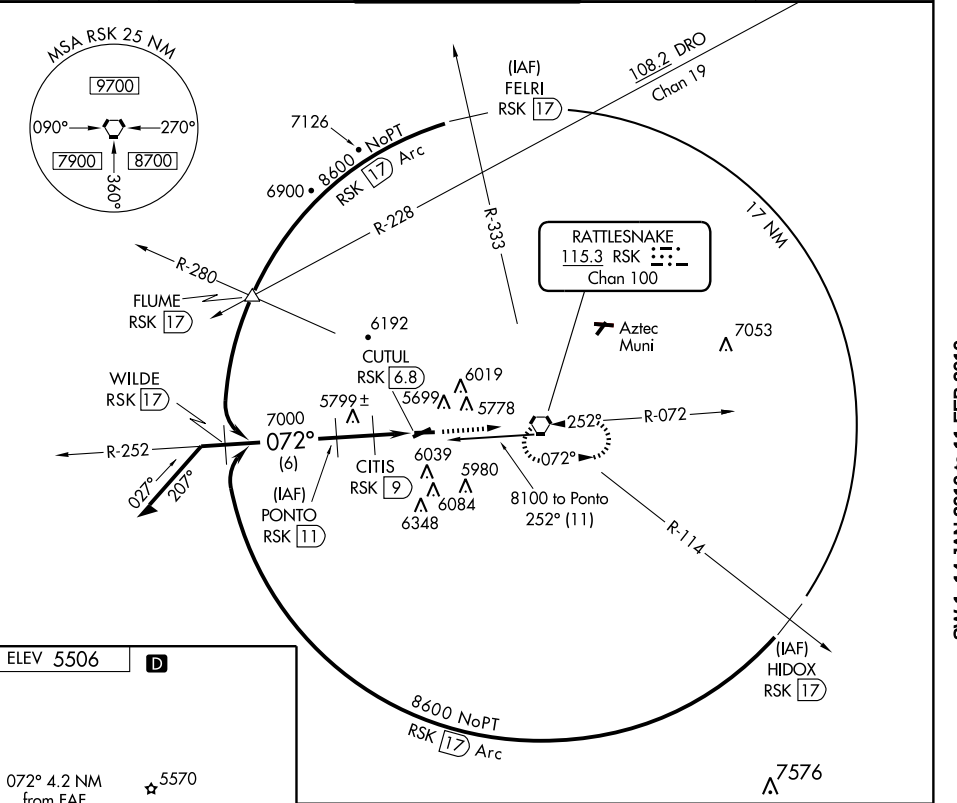
⚠

Cat D circling not authorized southeast of Rwys 5 and 25.

MISSED APPROACH:

Climb to 8300 direct RSK VORTAC and hold.

ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER★ 118.9 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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VORTAC RSK 115.3 Chan 100	APP CRS 254°	Rwy Idg 6375 TDZE 5504 Apt Elev 5506
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VOR RWY 23
FARMINGTON/FOUR CORNERS RGNL (FMN)

T Cat D circling not authorized southeast of Rwy 5 and 25.

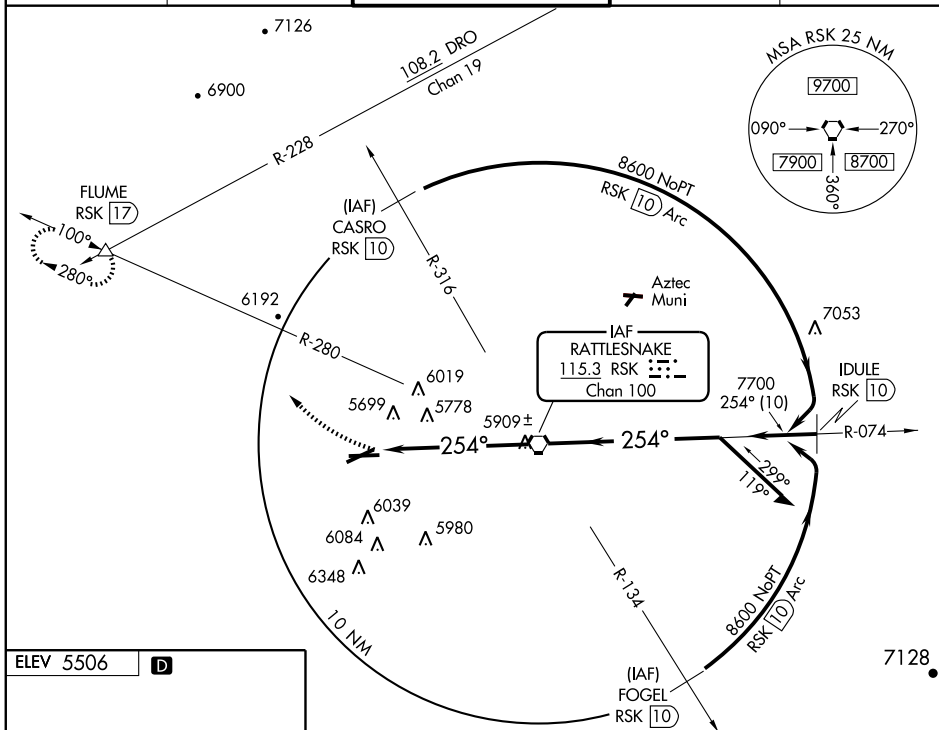
MISSED APPROACH: Climbing right turn to 9000 via RSK R-280 to FLUME Int and hold.

ATIS
127.15

DENVER CENTER
118.575 348.7

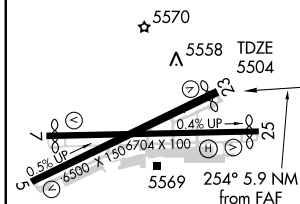
FARMINGTON TOWER★
118.9 (CTAF) **L 257.8**

GND CON
121.7

UNICOM
122.95

ELEV 5506

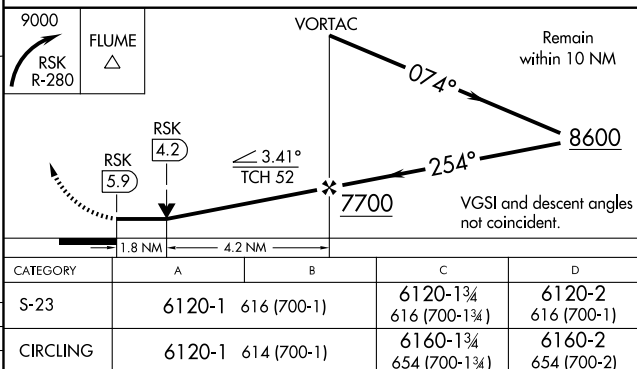
D



REIL Rwy 23 and 25 **L**
MIRL Rwy 5-23 and 7-25 **L**

FAF to MAP 5.9 NM

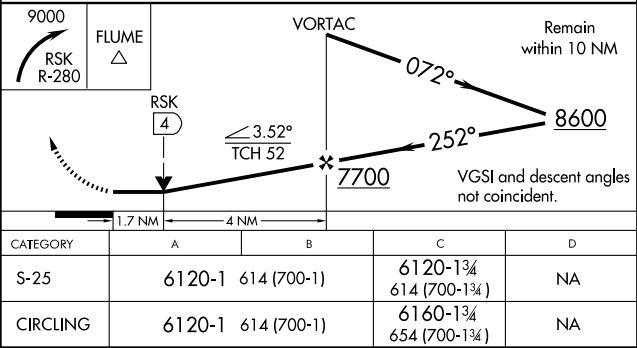
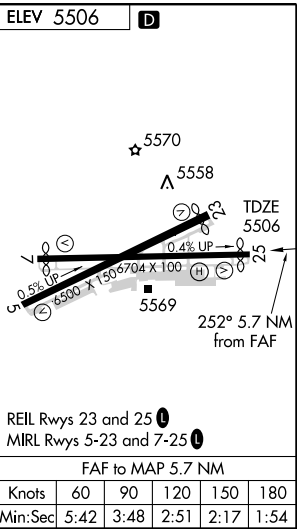
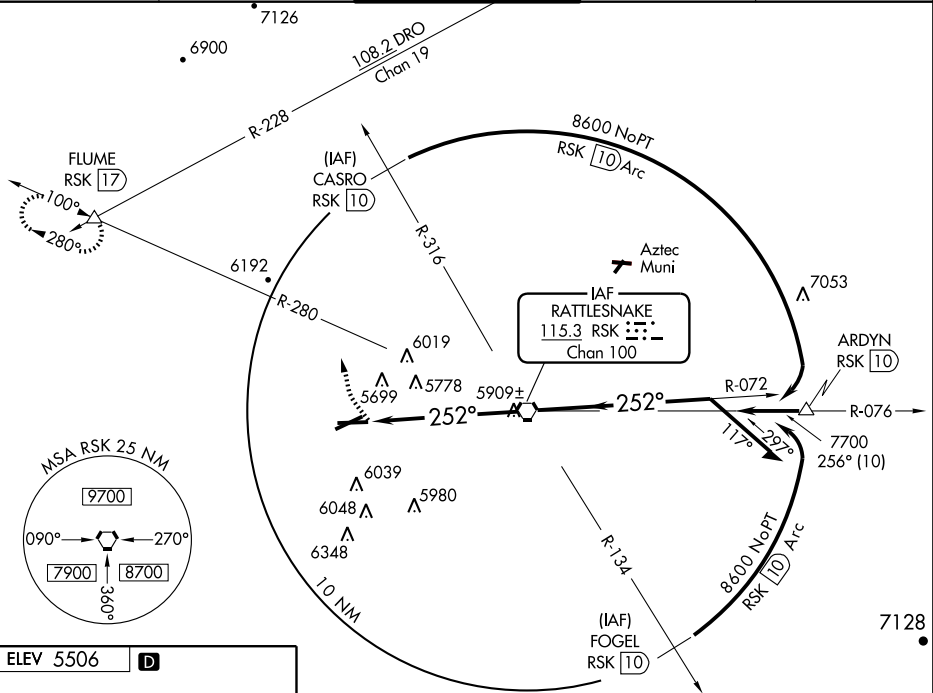
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



VORTAC RSK	APP CRS	Rwy Idg	6277
115.3	252°	TDZE	5506
Chan 100		Apt Elev	5506

MISSED APPROACH: Climbing right turn to 9000 via RSK R-280 to FLUME Int and hold.

ATIS 127.15	DENVER CENTER 118.575 348.7	FARMINGTON TOWER★ 118.9 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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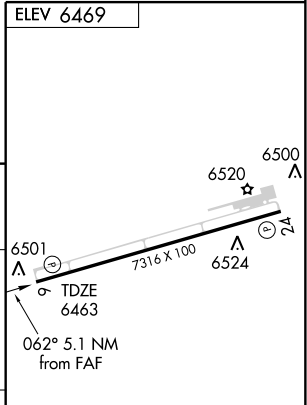
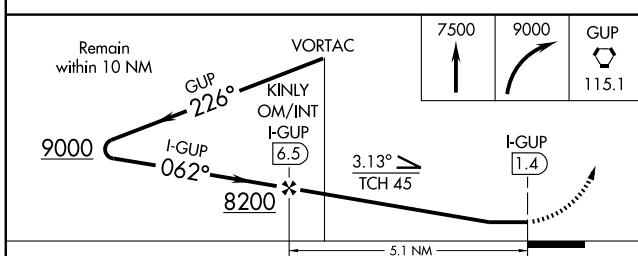
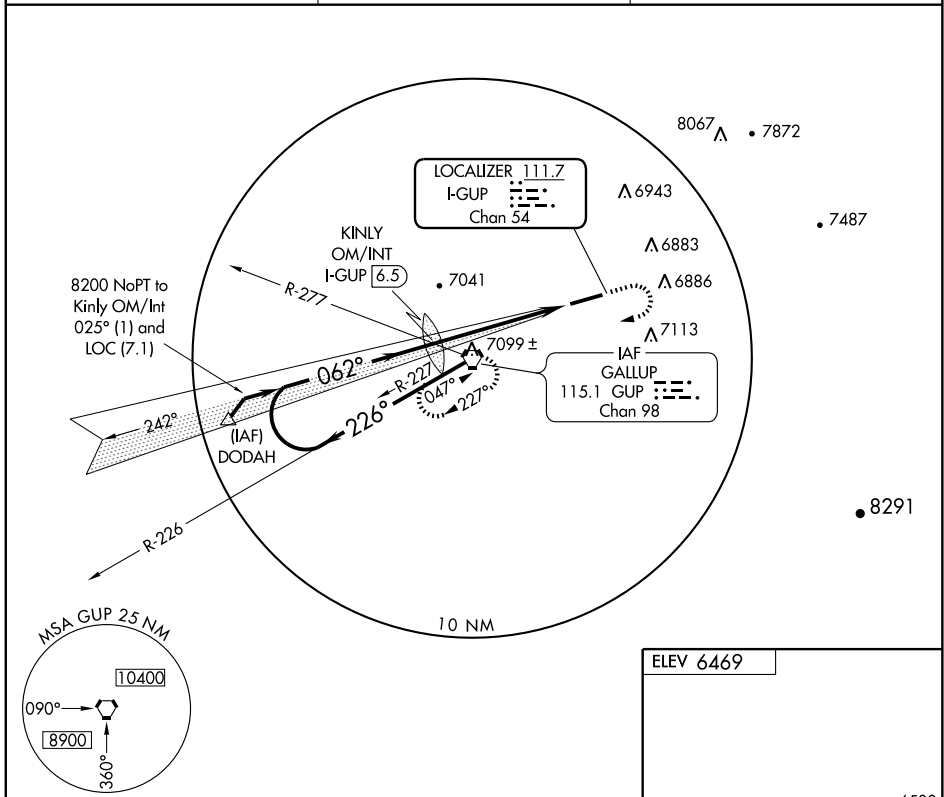
LOC/DME	I-GUP	APP CRS	Rwy Idg	7316
111.7		062°	TDZE	6463
Chan 54			Apt Elev	6469

LOC RWY 6

GALLUP MUNI (GUP)

NA	MISSED APPROACH: Climb to 7500 then climbing right turn to 9000 direct GUP VORTAC and hold.
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ASOS 118.375	ALBUQUERQUE RADIO 122.1R	UNICOM 122.95 (CTAF) 0
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CATEGORY	A	B	C	D
S-6	7280-1 817 (900-1)	7280-1¼ 817 (900-1¼)	7280-2½ 817 (900-2½)	7280-2¾ 817 (900-2¾)
CIRCLING	7280-1 811 (900-1)	7280-1¼ 811 (900-1¼)	7280-2½ 811 (900-2½)	7360-3 891 (900-3)

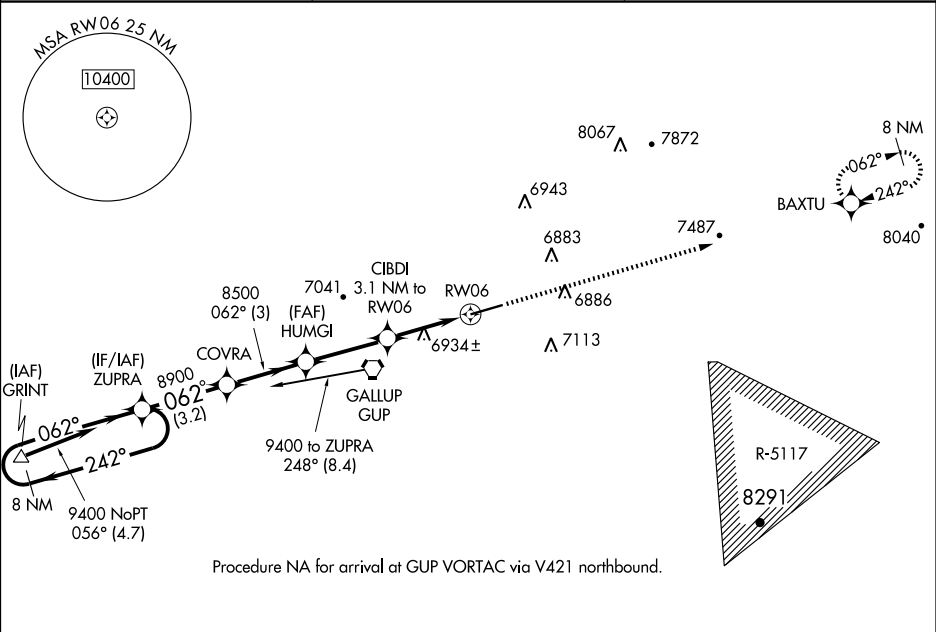
REIL Rwy 24 					
MIRL Rwy 6-24 					
FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

WAAS CH 82099 W06A	APP CRS 062°	Rwy Idg TDZE Apt Elev 7316 6465 6472
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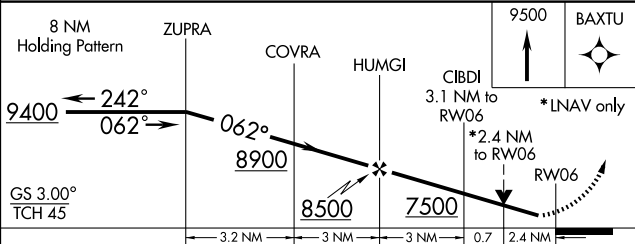
RNAV (GPS) RWY 6
GALLUP MUNI (GUP)

DME/DME RNP-0.3 NA. VDP APW with Window Rock altimeter setting. If local altimeter setting not received, use Window Rock altimeter setting and increase all DAs/MDAs 80 feet.	MISSED APPROACH: Climb to 9500 direct BAXTU and hold.
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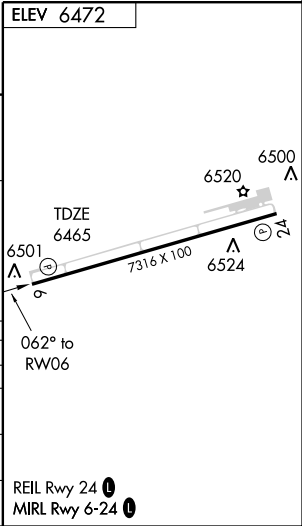
ASOS 118.375	ALBUQUERQUE RADIO 122.1R	UNICOM 122.95 (CTAF) 0
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Procedure NA for arrival at GUP VORTAC via V421 northbound.



CATEGORY	A	B	C	D
LPV DA	6759-1 294 (300-1)			
RNAV/ VNAV	NA			
RNAV MDA	7260-1 795 (800-1)	7260-1¼ 795 (800-1¼)	7260-2¼ 795 (800-2¼)	7260-2½ 795 (800-2½)
CIRCLING	7260-1 788 (800-1)	7260-1¼ 788 (800-1¼)	7260-2¼ 788 (800-2¼)	7360-3 888 (900-3)



APP CRS 242°	Rwy Idg 7316
	TDZE 6472
	Apt Elev 6472

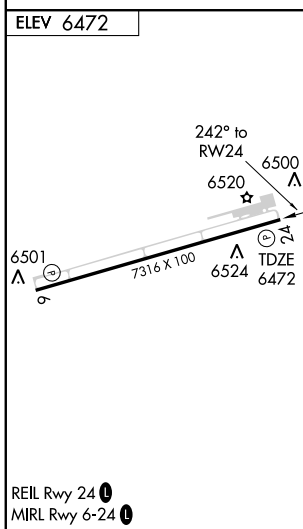
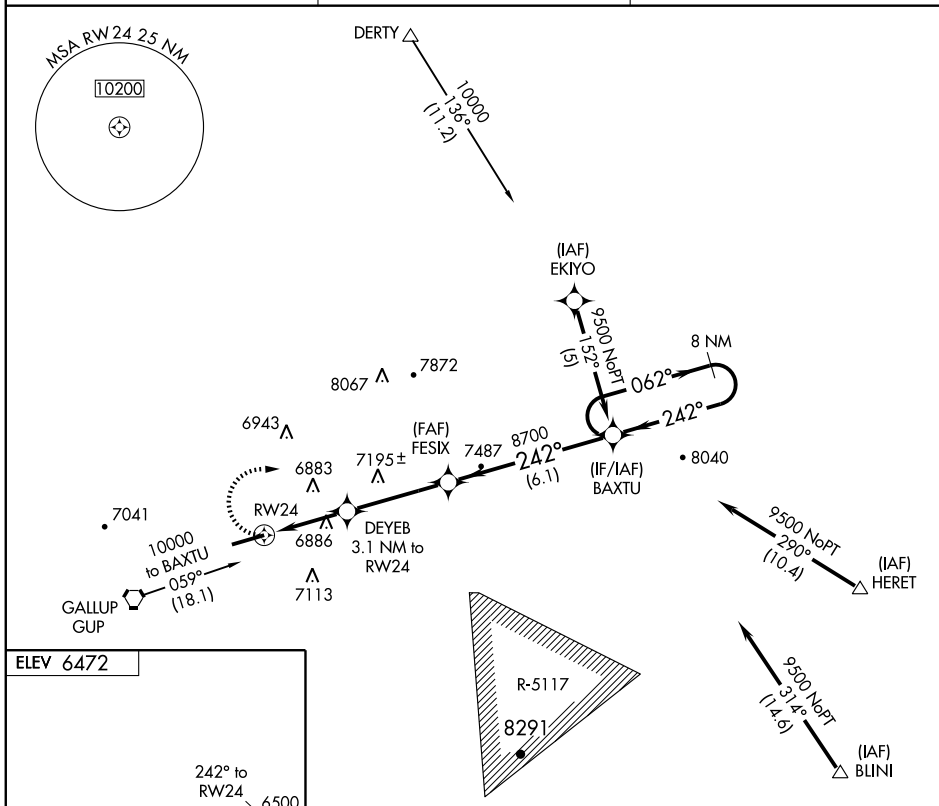
RNAV (GPS) RWY 24

GALLUP MUNI (GUP)

DME/DME RNP-0.3 NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 9500 direct BAXTU and hold.

ASOS 118.375	ALBUQUERQUE RADIO 122.1R	UNICOM 122.95 (CTAF) 0
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	9500	BAXTU	DEYEB 3.1 NM to RW24	FESIX	BAXTU	8 NM Holding Pattern
			2 NM to RW24	3.00° TCH 45	242°	062°
			7500	8700		9500
			2 NM	1.1 NM	3.8 NM	6.1 NM
CATEGORY	A	B	C	D		
LNAV MDA	7140-1	668 (700-1)	7140-1 ^{3/4} 668 (700-1 ^{3/4})	7140-2 668 (700-2)		
CIRCLING	7140-1	668 (700-1)	7140-1 ^{3/4} 668 (700-1 ^{3/4})	7360-3 888 (900-3)		

▼

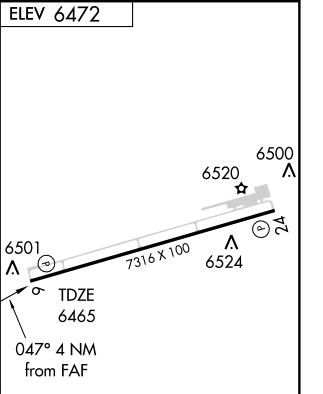
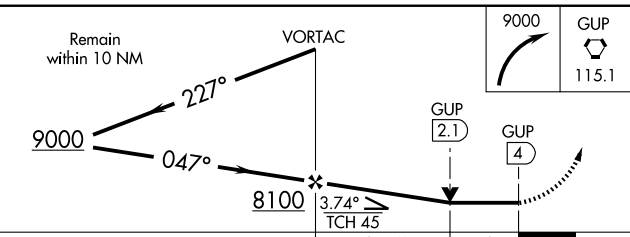
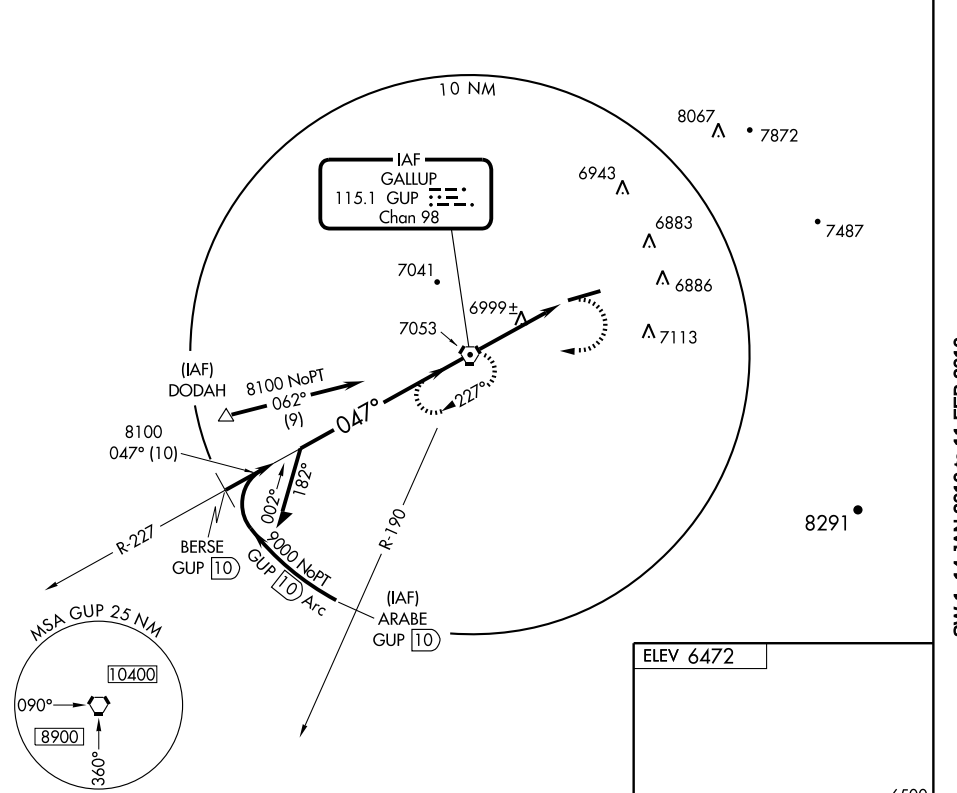
▲

MISSED APPROACH: Climbing right turn to 9000 direct GUP VORTAC and hold.

ASOS
118.375

ALBUQUERQUE RADIO
122.1R

UNICOM
122.95 (CTAF) 0



CATEGORY	A	B	C	D
S-6	7260-1 795 (800-1)	7260-1¼ 795 (800-1¼)	7260-2¼ 795 (800-2¼)	7260-2½ 795 (800-2½)
CIRCLING	7260-1 788 (800-1)	7260-1¼ 788 (800-1¼)	7260-2¼ 788 (800-2¼)	7360-3 888 (900-3)

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

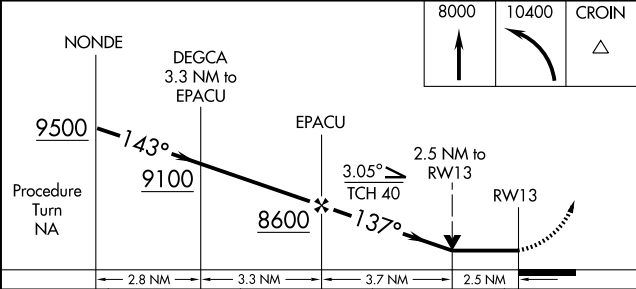
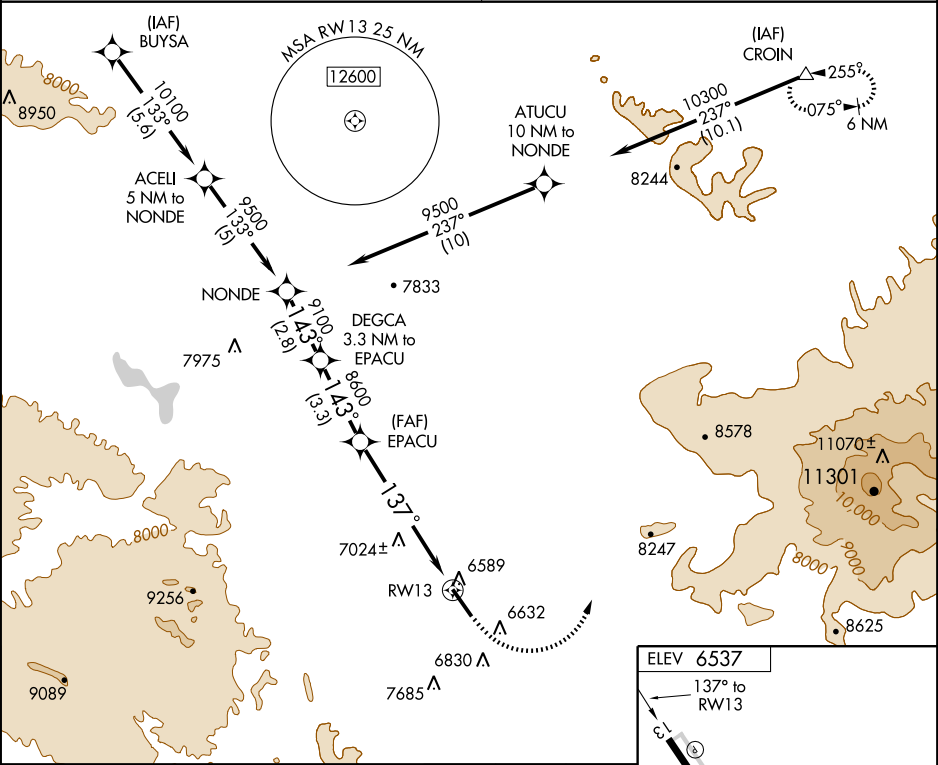
APP CRS	Rwy Idg	7172
137°	TDZE	6537
	Apt Elev	6537

RNAV (GPS) RWY 13

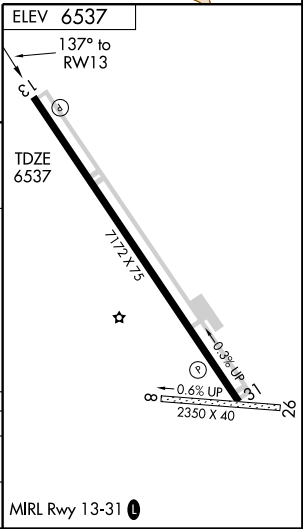
GRANTS-MILAN MUNI (GNT)

NA If local altimeter setting not received, procedure NA. GPS or RNP -0.3 required. DME/DME RNP -0.3 NA. Circling NA east of Rwy 13-31. Procedure NA at night.	MISSED APPROACH: Climb to 8000, then climbing left turn to 10400 direct CROIN WP and hold.
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ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	7380-1 843 (900-1)	7380-1¼ 843 (900-1¼)	7380-2½ 843 (900-2½)	NA
CIRCLING	7380-1 843 (900-1)	7420-1¼ 883 (900-1¼)	7480-2¾ 943 (1000-2¾)	NA



APP CRS	Rwy Idg	7172
312°	TDZE	6522
	Apt Elev	6537

RNAV (GPS) RWY 31

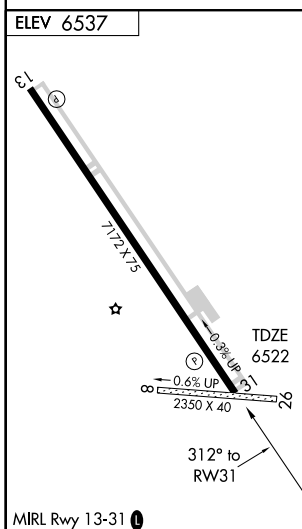
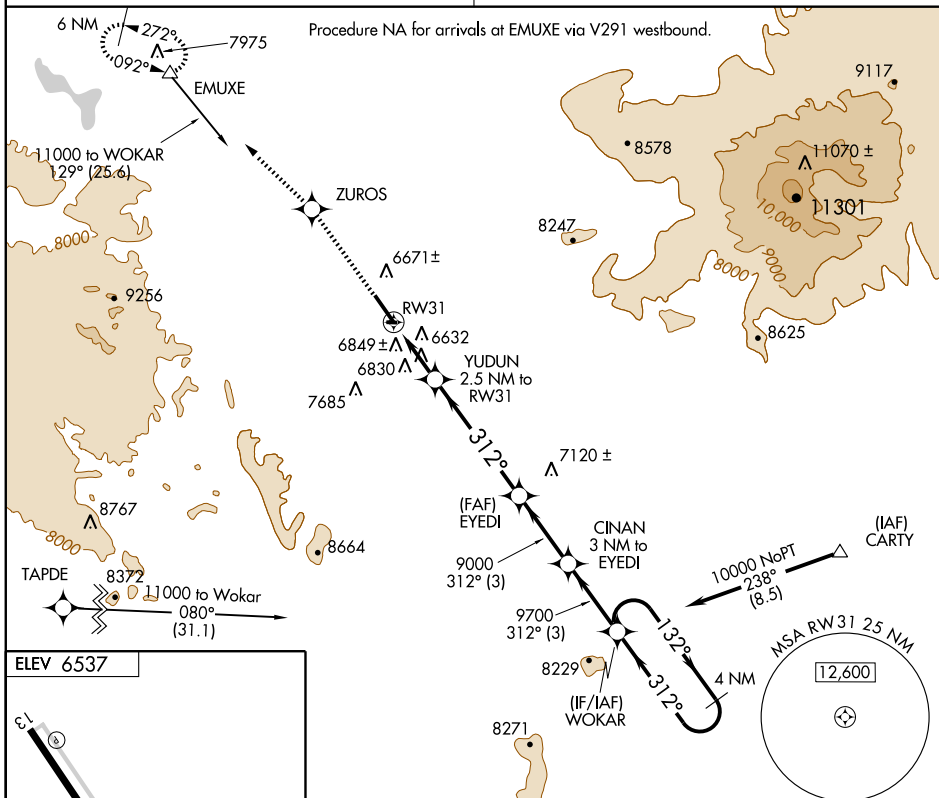
GRANTS-MILAN MUNI (GNT)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling not authorized east of Rwy 13-31.

MISSED APPROACH: Climb to 11 000 direct ZUROS WP and left turn via 302 ° track to EMUXE WP and hold.

ALBUQUERQUE CENTER
124,325 288.25

UN|COM
122.8 (CTAF) **L**



11000 ↑	ZUROS ✦	302° ↶	EMUXE △	CINAN 3 NM to EYEDI	WOKAR	4 NM Holding Pattern	
CATEGORY		A		B		C	D
LNAV MDA	7100-1		578 (600-1)		7100-1½ 578 (600-1½)		NA
CIRCLING	7160-1		623 (700-1)		7160-1¾ 623 (700-1¾)		NA

AIRPORT DIAGRAM

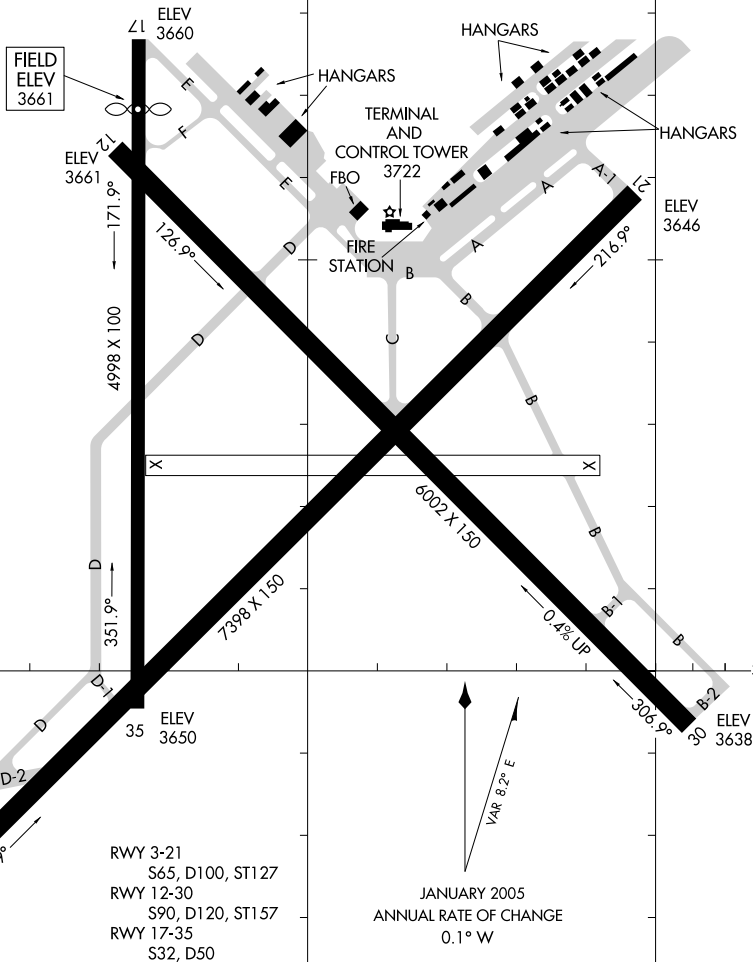
AL-851 (FAA)

HOBBS/LEA COUNTY RGNL (HOB)
HOBBS, NEW MEXICO

ATIS
119.75
HOBBS TOWER★
120.65 317.4
GND CON
121.9

D

32°42'N



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

103° 13.5' W

103° 13.0' W

103° 12.5' W

SW-1, 14 JAN 2010 to 11 FEB 2010

LOC/DME I-HOB 108.5 Chan 22	APP CRS 035°	Rwy Idg 7398 TDZE 3652 Apt Elev 3661
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ILS or LOC RWY 3
HOBBS/LEA COUNTY RGNL (HOB)

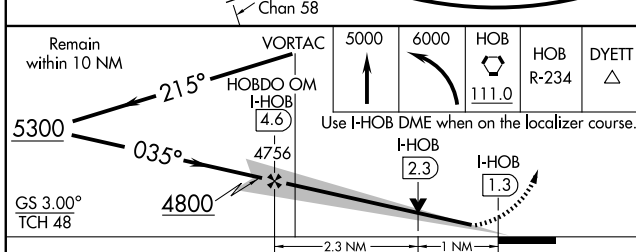
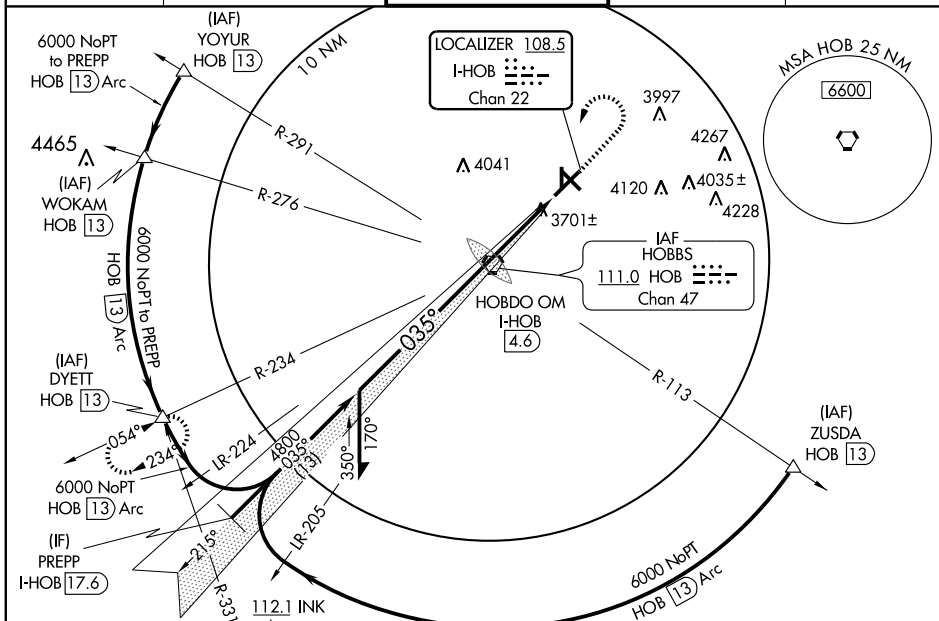
▼ When control tower closed, except for operators with approved weather reporting service, use Carlsbad altimeter setting. VDP NA when using Carlsbad altimeter setting. For inoperative MALSR, increase Carlsbad altimeter setting S-ILS all Cots visibility to 1¾ mile.

MALSR

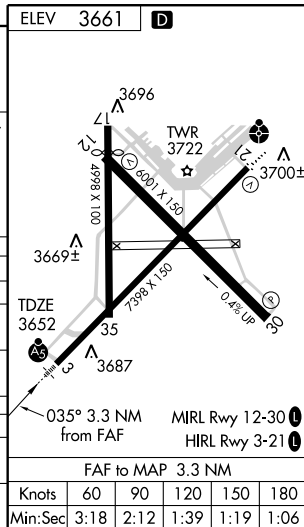


MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct HOBBS VORTAC then via HOB VORTAC R-234 to DYETT INT/HOB 13 DME and hold.

ATIS 119.75	FORT WORTH CENTER 133.1 298.95	HOBBS TOWER ★ 120.65 (CTAF) 317.4	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 3	3852-½ 200 (200-½)			
S-LOC 3	4020-½ 368 (400-½)			4020-¾ 368 (400-¾)
CIRCLING	4120-1 459 (500-1)	4140-1 479 (500-1)	4140-1½ 479 (500-1½)	4220-2 559 (600-2)
CARLSBAD ALTIMETER SETTING MINIMUMS				
S-ILS 3	4133-1¼ 481 (500-1¼)			
S-LOC 3	4300-½ 648 (700-½)		4300-1¼ 648 (700-1¼)	4300-1½ 648 (700-1½)
CIRCLING	4400-1¾ 739 (800-1¾)	4420-1¾ 759 (800-1¾)	4420-2¼ 759 (800-2¼)	4440-2½ 779 (800-2½)

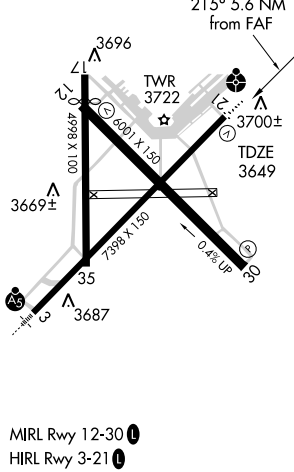
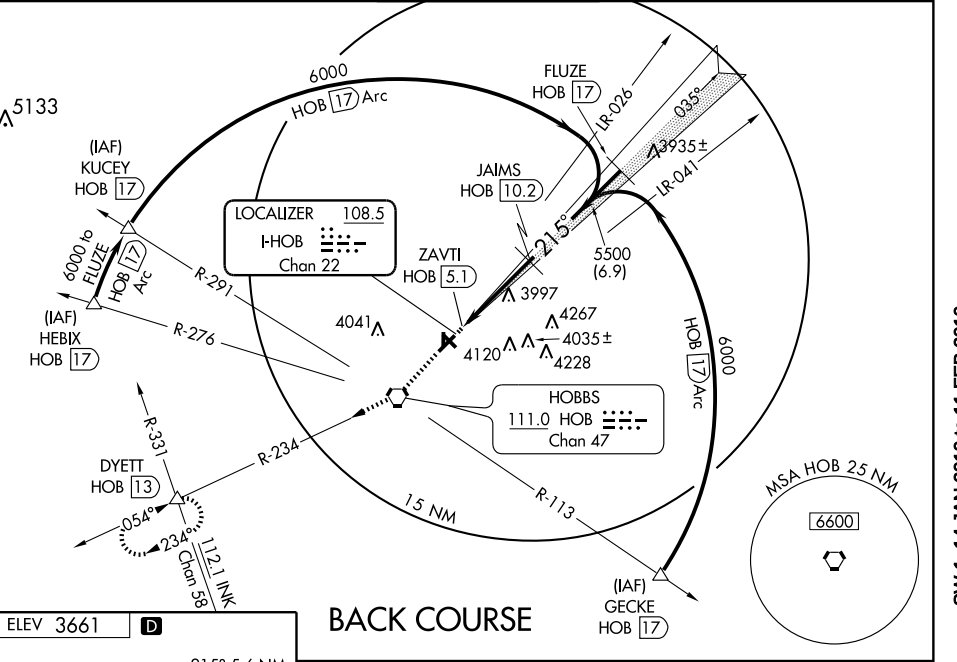


When control tower closed, except for operators with approved weather reporting service, use Cavern City Air Terminal altimeter setting.
Inoperative table does not apply.
DME from HOB VORTAC. Simultaneous reception of I-HOB and HOB DME required.

ODALS

MISSED APPROACH: Climb to 6000 direct HOB VORTAC then via HOB R-234 to DYETT INT/13 DME and hold.

ATIS 119.75	FORT WORTH CENTER 133.1 298.95	HOBBBS TOWER ★ 120.65 (CTAF) 0 317.4	GND CON 121.9	UNICOM 122.95
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BACK COURSE				
6000	HOB 111.0	HOB R-234	DYETT	FLUZE HOB 17
Disregard glide slope indications				
ZAVTI HOB 5.1 3.02° TCH 44				
JAIMS HOB 10.2				
5500				
6000				
Procedure Turn NA				
CATEGORY	A	B	C	D
S-21	4080-1	431 (500-1)	4080-1¼ 431 (500-1¼)	4080-1½ 431 (500-1½)
CIRCLING	4120-1 459 (500-1)	4140-1 479 (500-1)	4140-1½ 479 (500-1½)	4220-2 559 (600-2)
CAVERN CITY AIR TERMINAL ALTIMETER SETTING MINIMUMS				
S-21	4360-1	711 (700-1)	4360-2 711 (700-2)	4360-2¼ 711 (700-2¼)
CIRCLING	4400-1 739 (800-1)	4420-1¼ 759 (800-1¼)	4420-2¼ 759 (800-2¼)	4440-2½ 779 (800-2½)

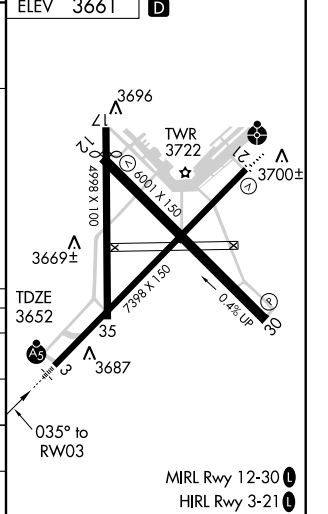
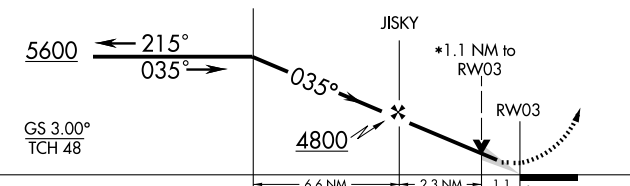
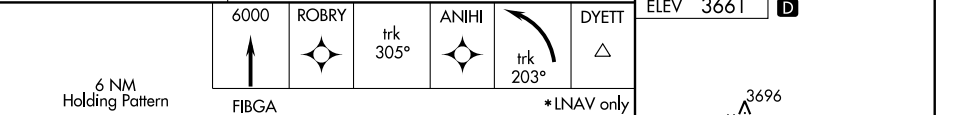
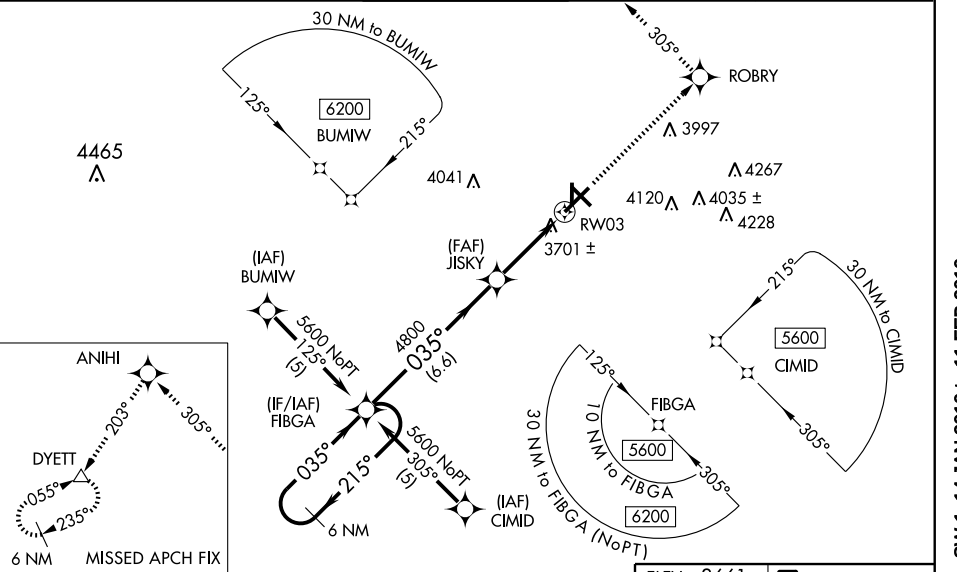
SW-1, 14 JAN 2010 to 11 FEB 2010

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Carlsbad altimeter setting and increase all DA 183 feet and all MDA 200 feet, increase LPV all Cats ¼ mile, LNAV/VNAV all Cats visibility ¾ mile, LNAV Cat C and Circling Cats C/D visibility ½ mile and LNAV Cat D visibility ¼ mile. Baro-VNAV and VDP NA with Carlsbad altimeter setting. For inoperative MALSR, when using Carlsbad altimeter setting, increase LPV all Cats visibility to 1¼. For inoperative MALSR increase LNAV Cat D visibility to 1¼.

MALSR

MISSED APPROACH: Climb to 6000 direct ROBRY and via track 305° to ANIHI and left turn via track 203° to DYETT and hold.

ATIS 119.75	FORT WORTH CENTER 133.1 298.95	HOBBS TOWER ★ 120.65 (CTAF) 0 317.4	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3852-½ 200 (200-½)			
LNAV/VNAV DA	4107-1 455 (500-1)			
LNAV MDA	4040-½ 388 (400-½)			4040-1 388 (400-1)
CIRCLING	4120-1 459 (500-1)	4140-1 479 (500-1)	4220-2 559 (600-2)	

SW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	7398
215°	TDZE	3649
	Apt Elev	3661

RNAV (GPS) RWY 21
HOBBS/ LEA COUNTY RGNL (HOB)

HOBBS/ LEA COUNTY RGNL (HOB)

T DME/DME RNP-0.3 NA.
Inoperative table does not apply to ODALS Rwy 21.

A When control tower closed, except for operators with approved weather reporting service, use Cavern City Air Terminal altimeter setting.

ODALS

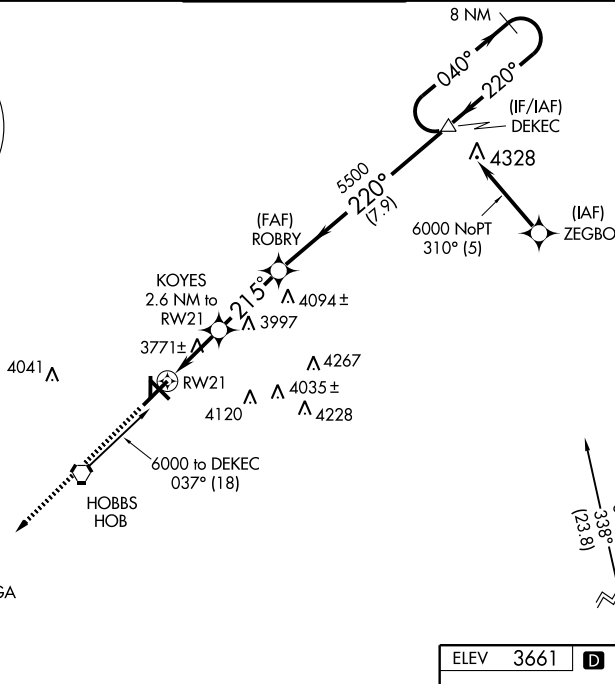
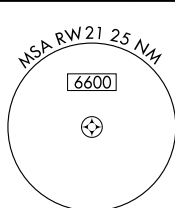
MISSED APPROACH: Climb to 5600
direct FIBGA and hold.

ATIS
119.75

FORT WORTH CENTER
133.1 298.95

HOBBS TOWER ★
120.65 (CTAF) L 317.4

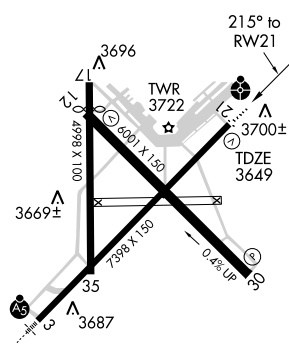
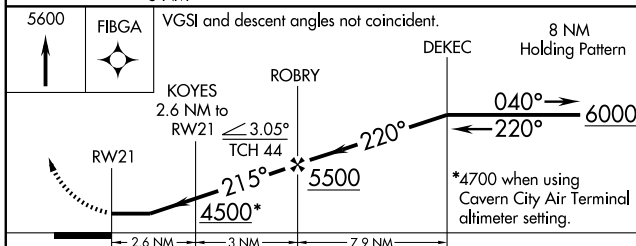
GND CON
121.9

UNICOM
122.95

SW-1: 14 JAN 2010 to 11 FEB 2010

ELEV 3661

D



CATEGORY	A	B	C	D
LNAV MDA	4080-1 431 (500-1)		4080-1¼ 431 (500-1¼)	4080-1½ 431 (500-1½)
CIRCLING	4120-1 459 (500-1)	4140-1 479 (500-1)	4140-1½ 479 (500-1½)	4220-2 559 (600-2)
CAVERN CITY AIR TERMINAL ALTIMETER SETTING MINIMUMS				
LNAV MDA	4360-1 711 (700-1)		4360-2 711 (700-2)	4360-2¼ 711 (700-2¼)
CIRCLING	4400-1 739 (800-1)	4420-1¼ 759 (800-1¼)	4420-2¼ 759 (800-2¼)	4440-2½ 779 (800-2½)

MIRL Rwy 12-30 **L**HIRL Rwy 3-21 **L**

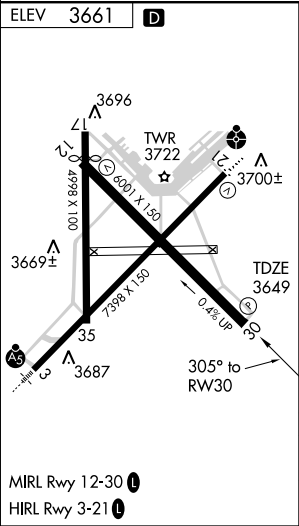
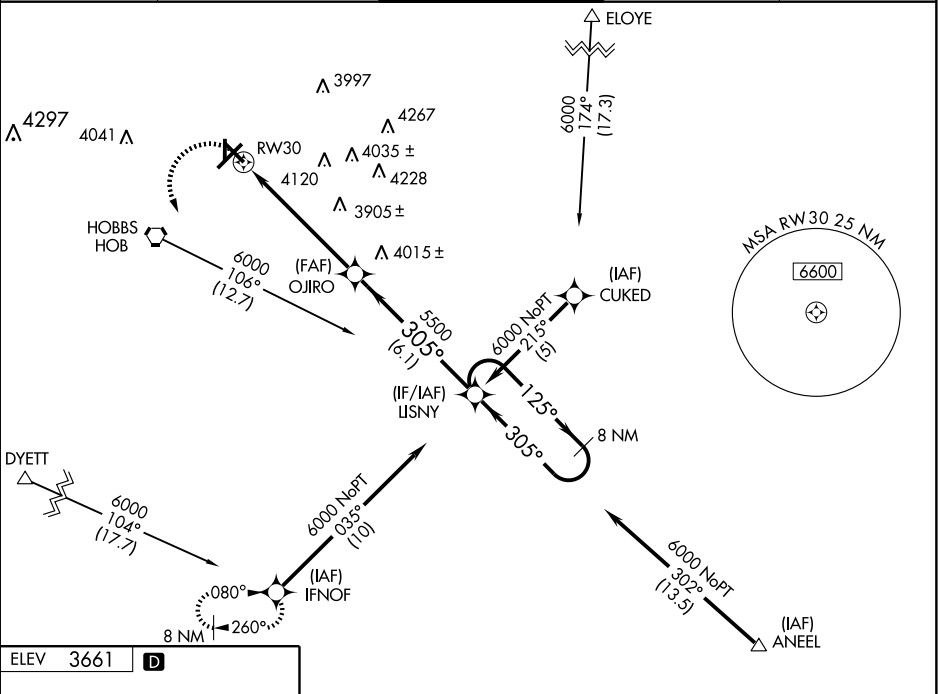
APP CRS	Rwy Idg	6001
305°	TDZE	3649
	Apt Elev	3661

RNAV (GPS) RWY 30
HOBBBS/ LEA COUNTY RGNL (HOB)

DME/DME RNP-0.3 NA.
When control tower closed, except for operators with approved weather reporting service, use Cavern City Air Terminal altimeter setting.
VDP NA with Cavern City Air Terminal altimeter setting.

MISSED APPROACH: Climbing left turn to 6000 direct IFNOF and hold.

ATIS 119.75	FORT WORTH CENTER 133.1 298.95	HOBBBS TOWER ★ 120.65 (CTAF) 317.4	GND CON 121.9	UNICOM 122.95
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6000 IFNOF		LISNY 8 NM Holding Pattern	
RW30 1.3 NM to RW30		OJIRO 5500	
1.3 NM		4.3 NM	
6.1 NM		125° 6000	
3.05° TCH 40		305°	
CATEGORY		A	
LNAV MDA		4100-1 451 (500-1)	
CIRCLING		4120-1 459 (500-1)	
CATEGORY		B	
LNAV MDA		4100-1 451 (500-1 1/4)	
CIRCLING		4140-1 479 (500-1)	
CATEGORY		C	
LNAV MDA		4100-1 451 (500-1 1/4)	
CIRCLING		4140-1 479 (500-1 1/2)	
CATEGORY		D	
LNAV MDA		4100-1 451 (500-1 1/2)	
CIRCLING		4220-2 559 (600-2)	

CAVERN CITY AIR TERMINAL ALTIMETER SETTING MINIMUMS

LNAV MDA		4380-1 731 (800-1)	
CIRCLING		4400-1 739 (800-1)	
LNAV MDA		4380-2 731 (800-2)	
CIRCLING		4420-2 759 (800-2 1/4)	
LNAV MDA		4380-2 731 (800-2 1/4)	
CIRCLING		4440-2 779 (800-2 1/2)	

VORTAC HOB 111.0 Chan 47	APP CRS 212°	Rwy Idg 7398 TDZE 3649 Apt Elev 3661
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VOR/DME or TACAN RWY 21

HOBBS/LEA COUNTY RGNL (HOB)

T When control tower closed, except for operators with approved weather reporting service, use Cavern City Air Terminal altimeter setting.

A Inoperative table does not apply.

Straight-in minimums NA when using Cavern City Air Terminal altimeter setting.

ODALS



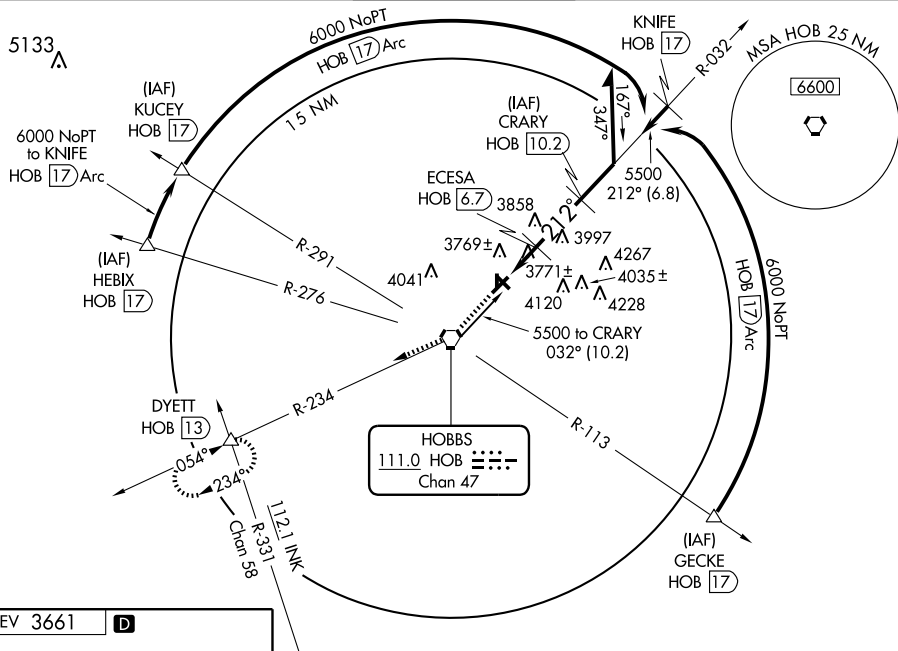
MISSED APPROACH: Climb to 6000 direct HOB VORTAC then via HOB R-234 to DYETT INT/13 DME and hold.

ATIS
119.75

FORT WORTH CENTER
133.1 298.95

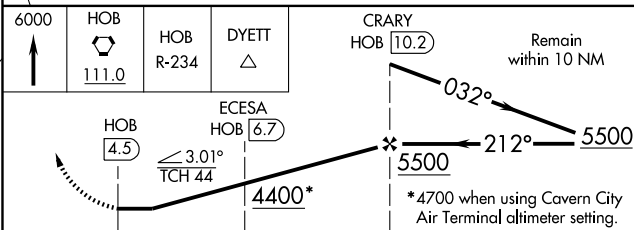
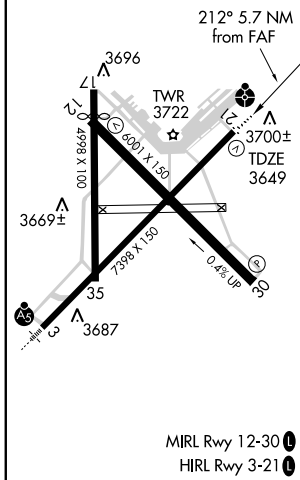
HOBBS TOWER ★
120.65 (CTAF) **L** 317.4

GND CON
121.9

UNICOM
122.95

ELEV 3661

D



		2.2 NM	3.5 NM	
CATEGORY	A	B	C	D
S-21	4080-1	431 (500-1)	4080-1¼ 431 (500-1¼)	4080-1½ 431 (500-1½)
CIRCLING	4120-1 459 (500-1)	4140-1 479 (500-1)	4140-1½ 479 (500-1½)	4220-2 559 (600-2)
CAVERN CITY AIR TERMINAL ALTIMETER SETTING MINIMUMS				
S-21	NA			
CIRCLING	4400-1 739 (800-1)	4420-1¼ 759 (800-1¼)	4420-2¼ 759 (800-2¼)	4440-2½ 779 (800-2½)

VORTAC HOB 111.0 Chan 47	APP CRS 031°	Rwy Idg 7398 TDZE 3652 Apt Elev 3661
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VOR or TACAN RWY 3

HOBBS/ LEA COUNTY RGNL (HOB)

T When control tower closed, except for operators with approved weather reporting service, use Cavern City Air Terminal
A altimeter setting.

For inoperative MALSR increase Cat D S-3 visibility to 1¼ miles.
VDP NA when using Cavern City Air Terminal altimeter setting.

MALSP



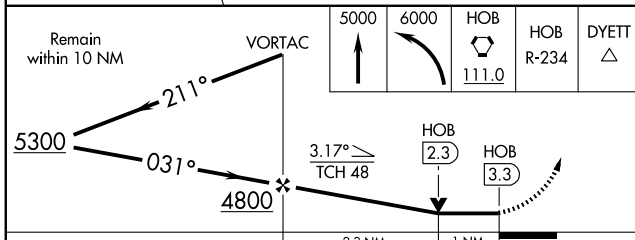
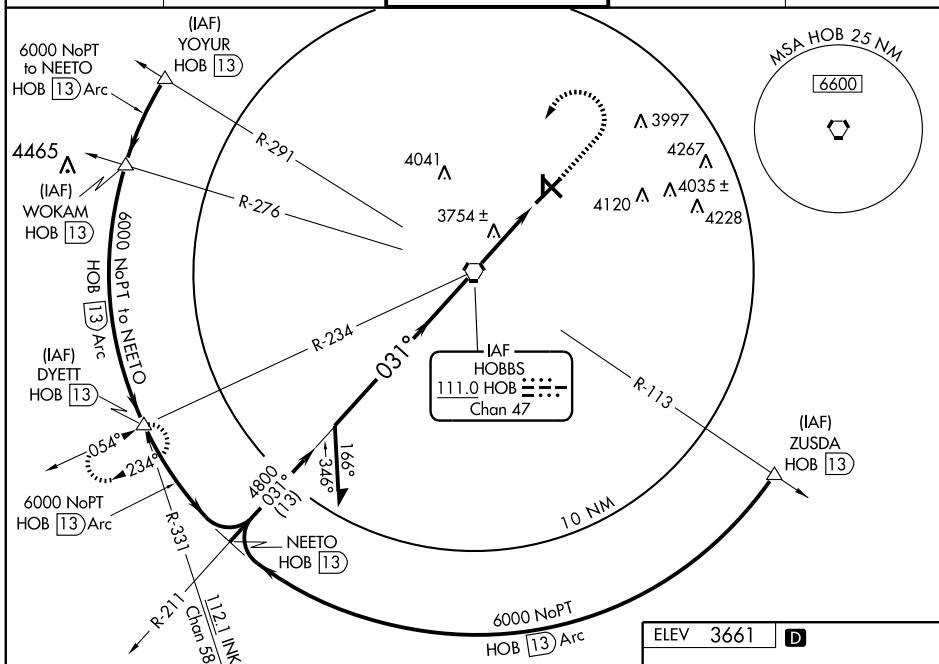
MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct HOB VORTAC, then via HOB R-234 to DYETT INT/13 DME and hold.

ATIS
119.75

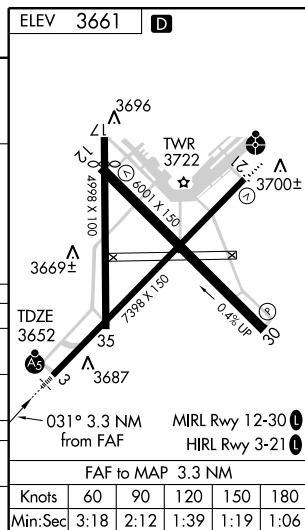
FORT WORTH CENTER
133.1 298.95

HOBBS TOWER ★
120.65 (CTAF) **L** 317.4

GND CON
121.9

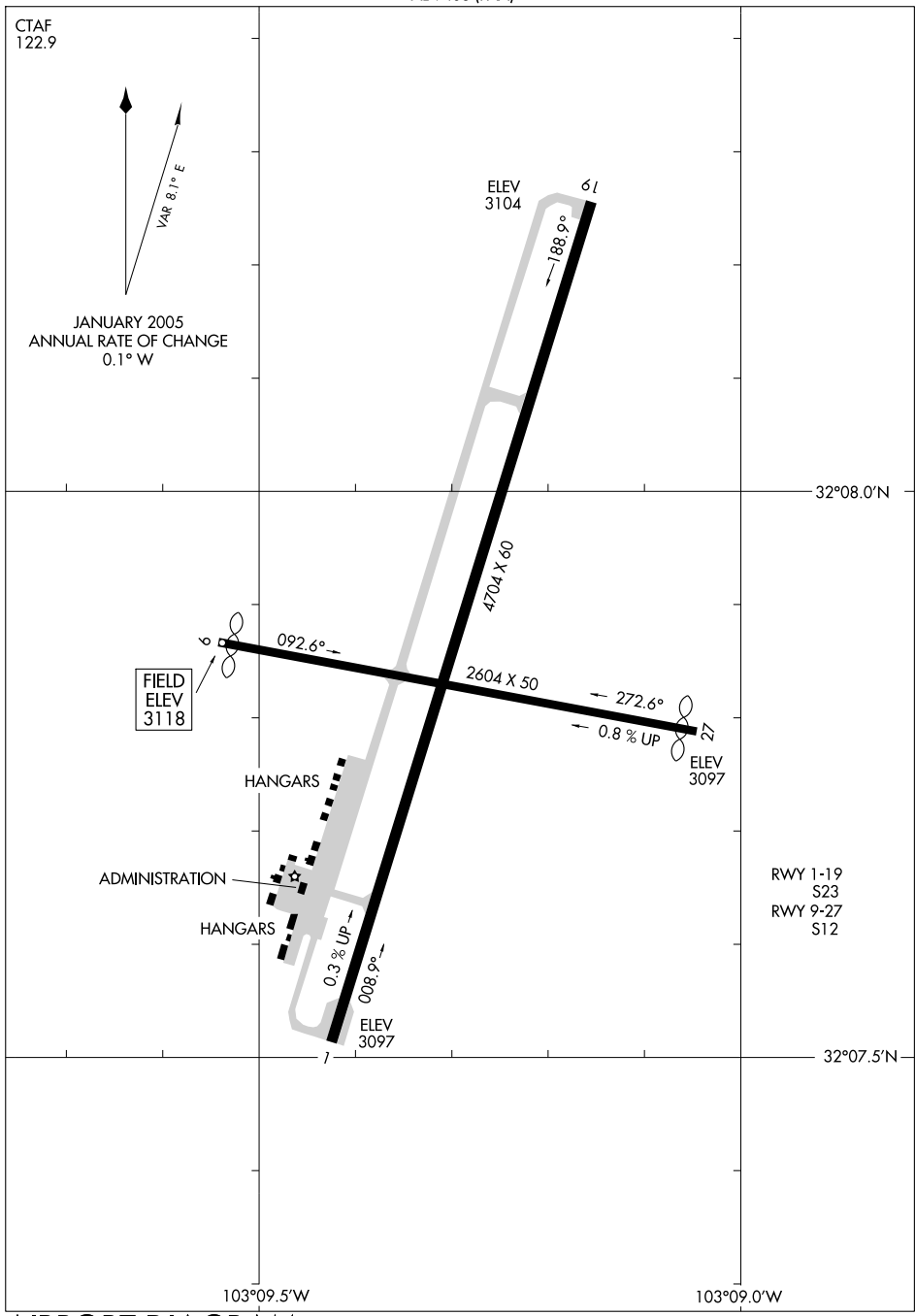
UNICOM
122.95

CATEGORY	2.3 NM		1 NM	
	A	B	C	D
S-3	4020-½ 368 (400-½)			4020-1 368 (400-1)
CIRCLING	4120-1 459 (500-1)	4140-1 479 (500-1)	4140-1½ 479 (500-1½)	4220-2 559 (600-2)
CAVERN CITY AIR TERMINAL ALTIMETER SETTING MINIMUMS				
S-3	4300-½ 648 (700-½)		4300-1¼ 648 (700-1¼)	4300-1½ 648 (700-1½)
CIRCLING	4400-1 739 (800-1)	4420-1¼ 759 (800-1¼)	4420-2¼ 759 (800-2¼)	4440-2½ 779 (800-2½)



AIRPORT DIAGRAM

AL-9408 (FAA)

JAL/LEA COUNTY (E26)
JAL, NEW MEXICO

LOC/DME I-LRU <u>109.3</u> Chan 30	APP CRS 304°	Rwy Idg 7499 TDZE 4443 Apt Elev 4456
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ILS or LOC RWY 30
LAS CRUCES INTL(LRU)

T	S-LOC: DME required.
A NA	If local altimeter setting not received, procedure NA. For inoperative MALSR, increase S-LOC Cat. D visibility to 1.

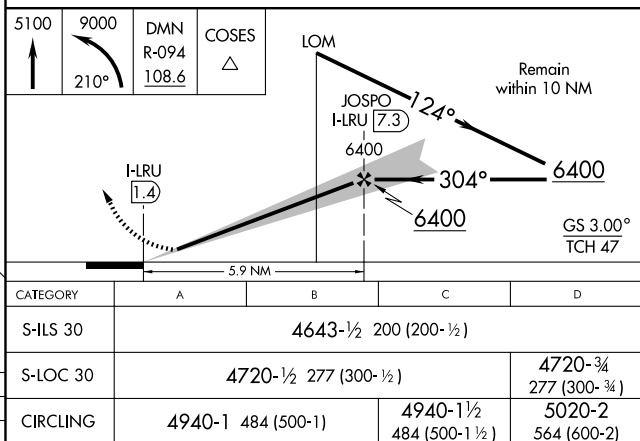
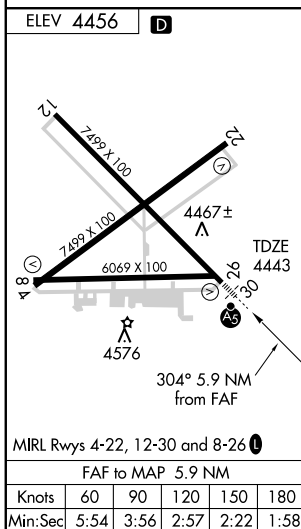
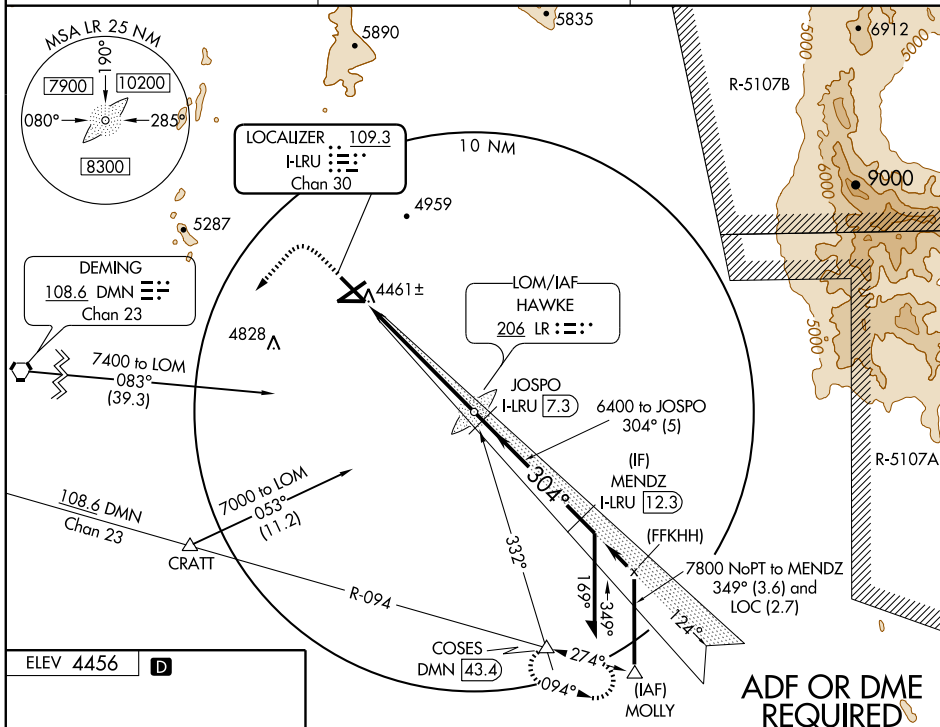
MALSR

MISSED APPROACH: Climb to 5100 then climbing left turn to 9000 via 210° heading and DMN VORTAC R-094 to COSES INT and hold.

AWOS-3
119.025

ALBUQUERQUE CENTER
128.2 285.5

UNICOM
122.7 (CTAF) **L**



APP CRS	Rwy Idg	7499
304°	TDZE	4443
	Apt Elev	4456

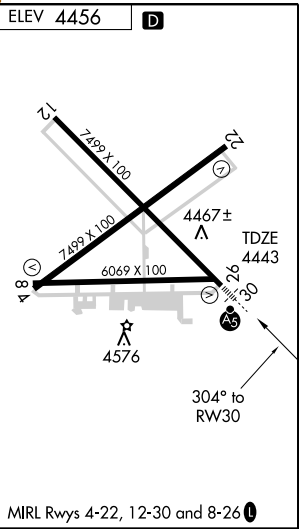
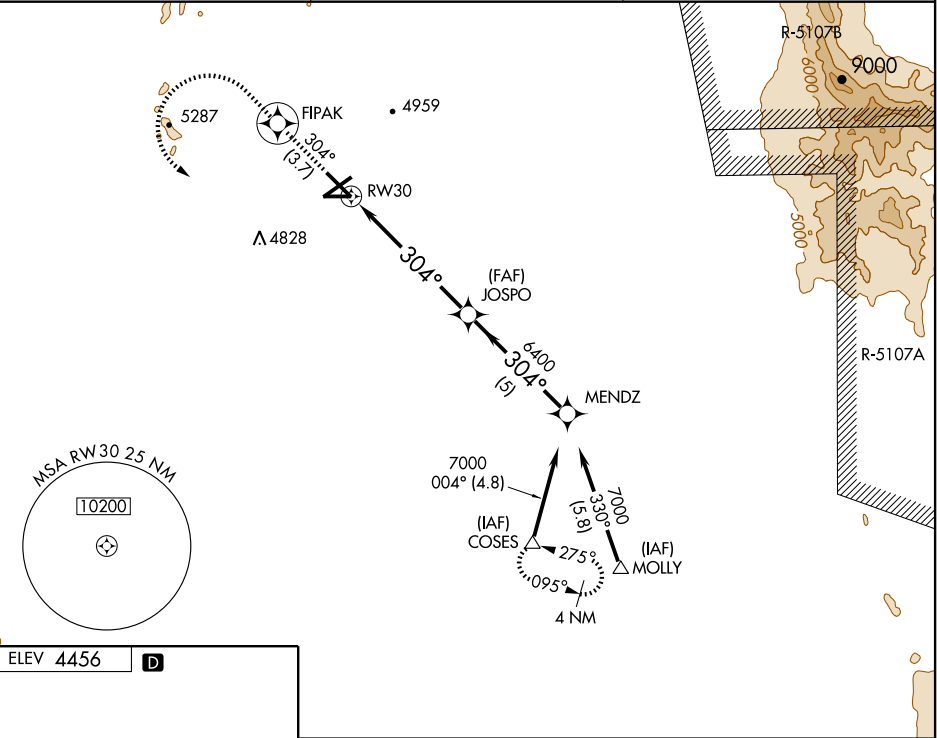
RNAV (GPS) RWY 30

LAS CRUCES INTL (LRU)

Baro-VNAV NA below -15°C (5°F).
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
For inoperative MALSR increase LNAV Cat D visibility to 1¼.
If local altimeter setting not received, procedure NA.

MALSR
MISSED APPROACH: Climb to 5100 via 304° course to FIPAK WP then climbing left turn to 9000 direct COSES WP and hold.

AWOS-3 119.025	ALBUQUERQUE CENTER 128.2 285.5	UNICOM 122.7 (CTAF) 0
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5100	FIPAK	9000	COSES	MENDZ
304°				
* LNAV only	* 1.1 NM to RW30			
RW30				
1.1 NM	4.8 NM	5 NM		
7499 X 100	7499 X 100	6069 X 100	4467 ±	4443
4576				
304° to RW30				
7000				
Procedure Turn NA				
GS 3.00°				
TCH 47				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	4780-¾ 337 (400-¾)			
LNAV MDA	4840-½ 397 (400-½)			4840-1 397 (400-1)
CIRCLING	4940-1¼ 484 (500-1¼)	4940-1½ 484 (500-1½)	5020-2 564 (600-2)	

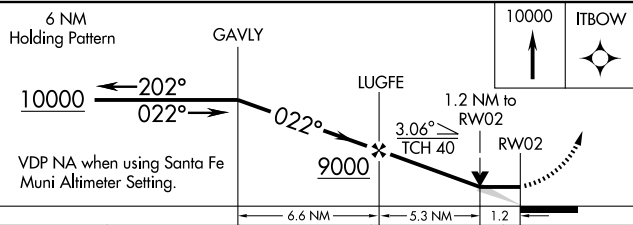
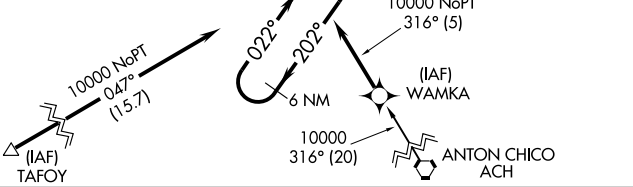
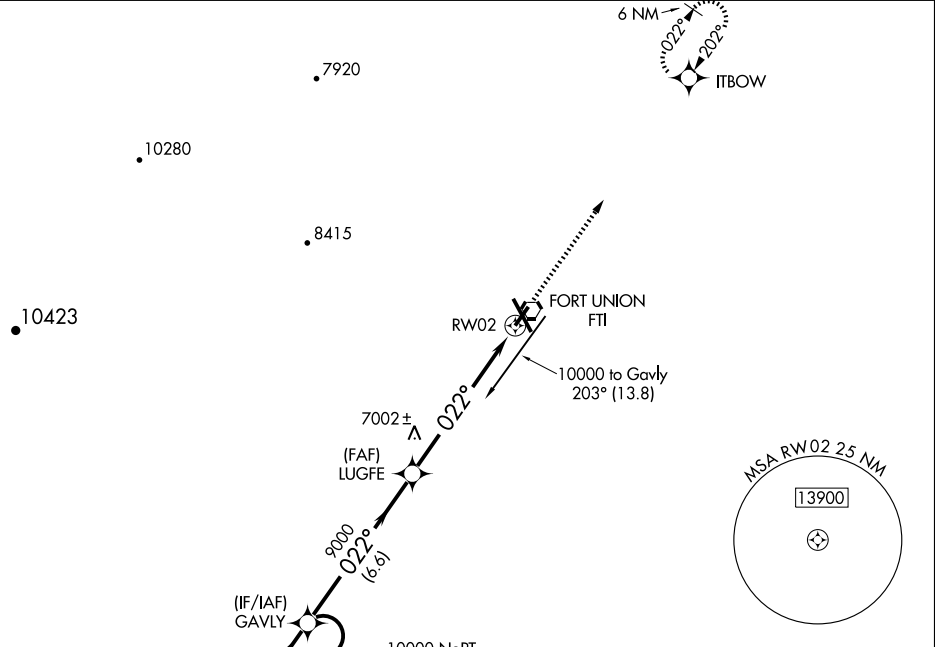
APP CRS	Rwy Idg	5004
022°	TDZE	6870
	Apt Elev	6877

DME/DME RNP-0.3 NA.
Inoperative table does not apply to Cat C.
If local altimeter setting not received, use Santa Fe Muni altimeter setting and increase all MDAs 200 feet.

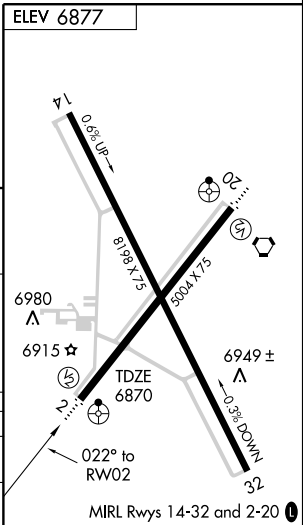
ODALS
⬆
⬆
⬆

MISSED APPROACH: Climb to 10000 direct ITBOW and hold.

ASOS 118.525	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
RNAV MDA	7280-3/4 410 (500-3/4)	7280-1 1/4 410 (500-1 1/4)	7280-1 1/2 410 (500-1 1/2)	NA
CIRCLING	7400-1 523 (600-1)	7420-1 543 (600-1)	7420-1 1/2 543 (600-1 1/2)	NA



SW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5004
202°	TDZE	6867
	Apt Elev	6877

RNAV (GPS) RWY 20

LAS VEGAS MUNI (LVS)

T DME/DME RNP-0.3 NA.
A If local altimeter setting not received, use Santa Fe Muni altimeter setting and increase all MDAs 200 feet.
Straight-in minimums NA when using Santa Fe Muni altimeter setting.

ODALS

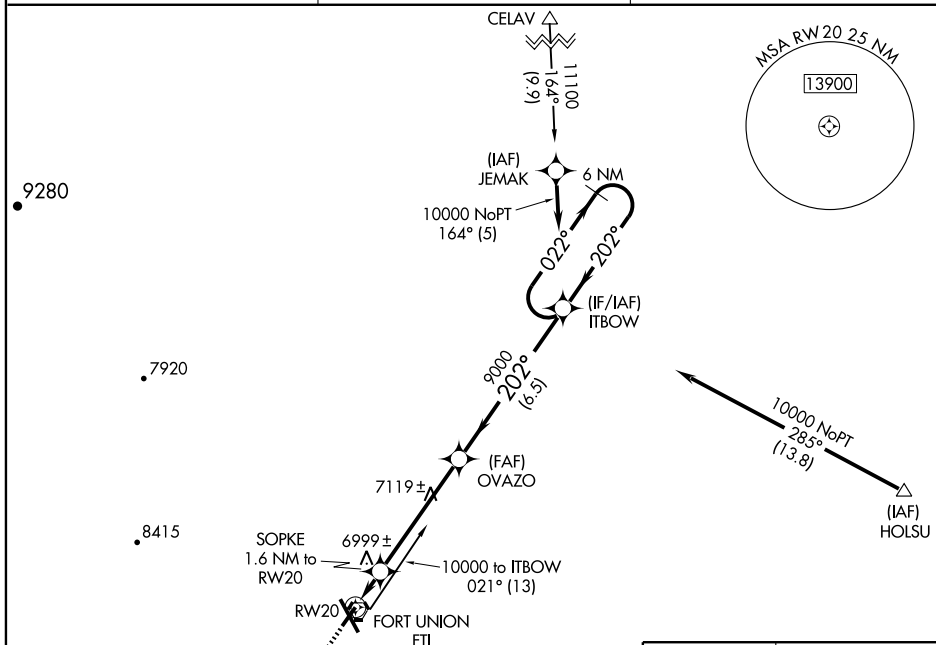


MISSED APPROACH: Climb to 10000 direct GAVLY and hold.

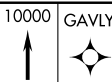
ASOS
118.525

ALBUQUERQUE CENTER
132.8 346.35

UNICOM
122.8 (CTAF) **L**



MISSED APCH FIX



VGSI and descent angles
not coincident.

SOPKE
1.6 NM to

OVAZO

BOW

6 NM
Holding Pattern

RW20
0 | 3

9000

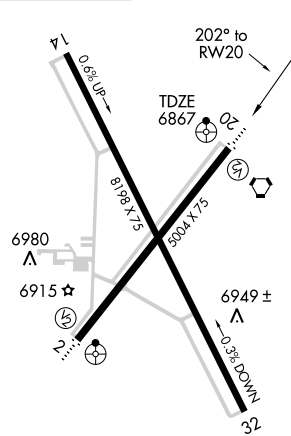
022° → 10000

← 202° 10000

*7600 when using Santa Fe Muni altimeter setting.

CATEGORY	A	B	C	D
LNAV MDA	7260- $\frac{3}{4}$ 393 (400- $\frac{3}{4}$)			NA
CIRCLING	7400-1 523 (600-1)	7420-1 543 (600-1)	7420-1 $\frac{1}{2}$ 543 (600-1 $\frac{1}{2}$)	NA

ELEV 6877

MIRL Rwyys 14-32 and 2-20 **L**

APP CRS
319°

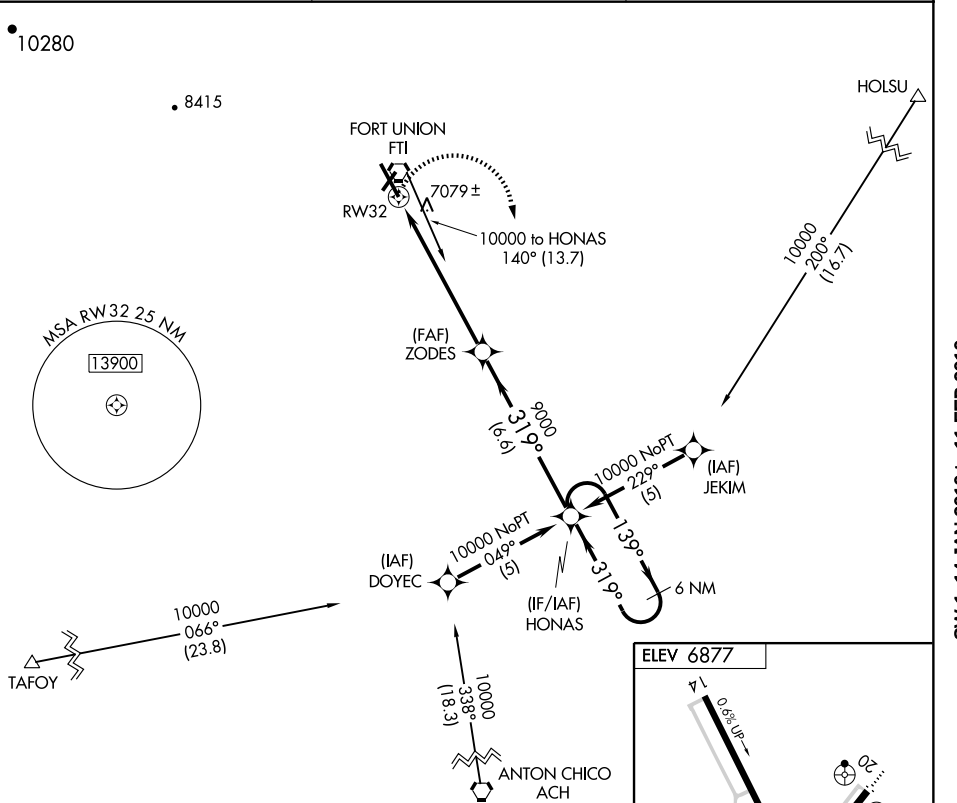
Rwy Idg
TDZE
Apt Elev

8198
6877
6877

DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Santa Fe Muni altimeter setting and increase all MDAs 200 feet.

MISSED APPROACH: Climbing right turn to 10000 direct HONAS and hold.

ASOS 118.525	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0
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10000

HONAS

VDP NA when using Santa Fe Muni altimeter setting.

6 NM Holding Pattern

1.2 NM to RW32

≤3.06° TCH 40

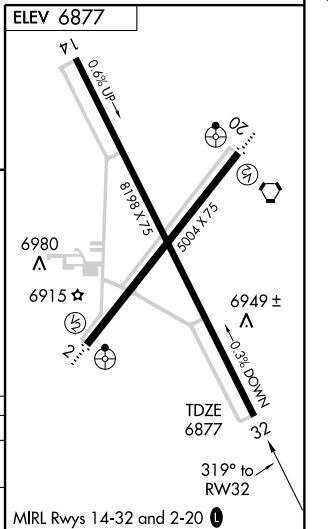
9000

1.2

5.2 NM

6.6 NM

CATEGORY	A	B	C	D
RNAV MDA	7320-1	443 (500-1)	7320-1½ 443 (500-1½)	NA
CIRCLING	7400-1 523 (600-1)	7420-1 543 (600-1)	7420-1½ 543 (600-1½)	NA



SW-1. 14 JAN 2010 to 11 FEB 2010

VORTAC FTI	APP CRS	Rwy Idg	5004
117.3	027°	TDZE	6870
Chan 120		Apt Elev	6877

▼

Inoperative table does not apply.

▲

If local altimeter setting not received, use Santa Fe Muni altimeter setting and increase all MDAs 200 feet.

ODALS

MISSED APPROACH: Climb to 8000 then climbing right turn to 9000 direct FTI VORTAC and hold.

ASOS 118.525	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-2	7520-1	650 (700-1)	7520-1¾ 650 (700-1¾)	NA
CIRCLING	7520-1	643 (700-1)	7520-1¾ 643 (700-1¾)	NA

SW-1, 14 JAN 2010 to 11 FEB 2010

VORTAC FTI	APP CRS	Rwy Idg	5004
117.3	192°	TDZE	6867
Chan 120		Apt Elev	6877

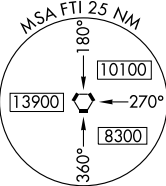
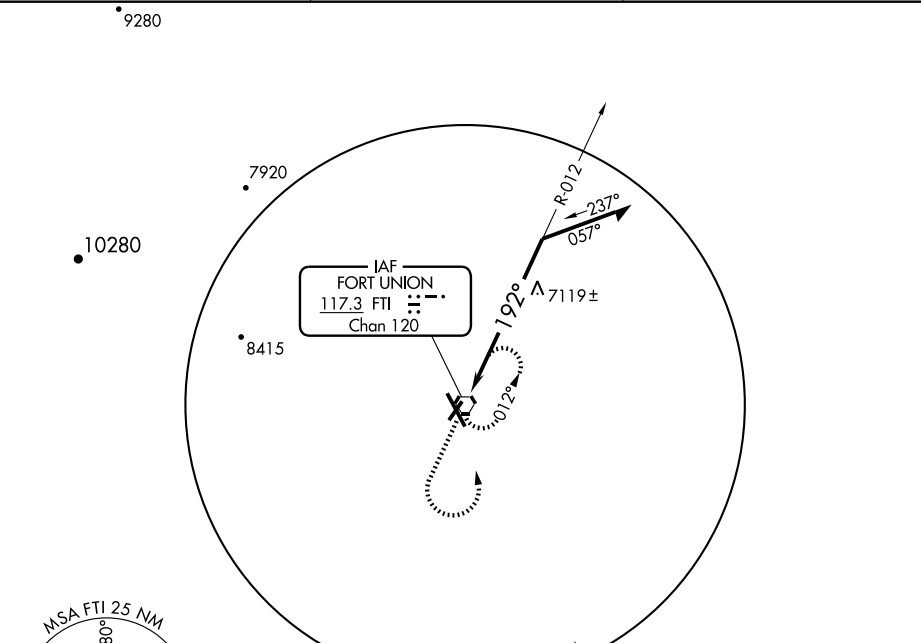
⚠ Inoperative table does not apply.

⚠ If local altimeter setting not received, use Santa Fe Muni altimeter setting and increase all MDAs 200 feet.

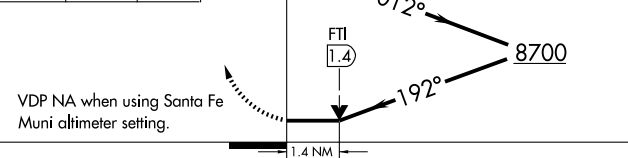
ODALS

MISSED APPROACH: Climb to 8000 then climbing left turn to 9000 direct FTI VORTAC and hold.

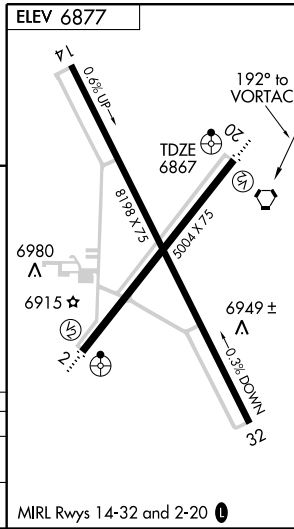
ASOS 118.525	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0
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8000	9000	FTI
		117.3



CATEGORY	A	B	C	D
S-20	7420-1	553 (600-1)	7420-1½ 553 (600-1½)	NA
CIRCLING	7420-1	543 (600-1)	7420-1½ 543 (600-1½)	NA



APP CRS
272°

Rwy Idg
5550

TDZE
7132

Apt Elev
7171

NA

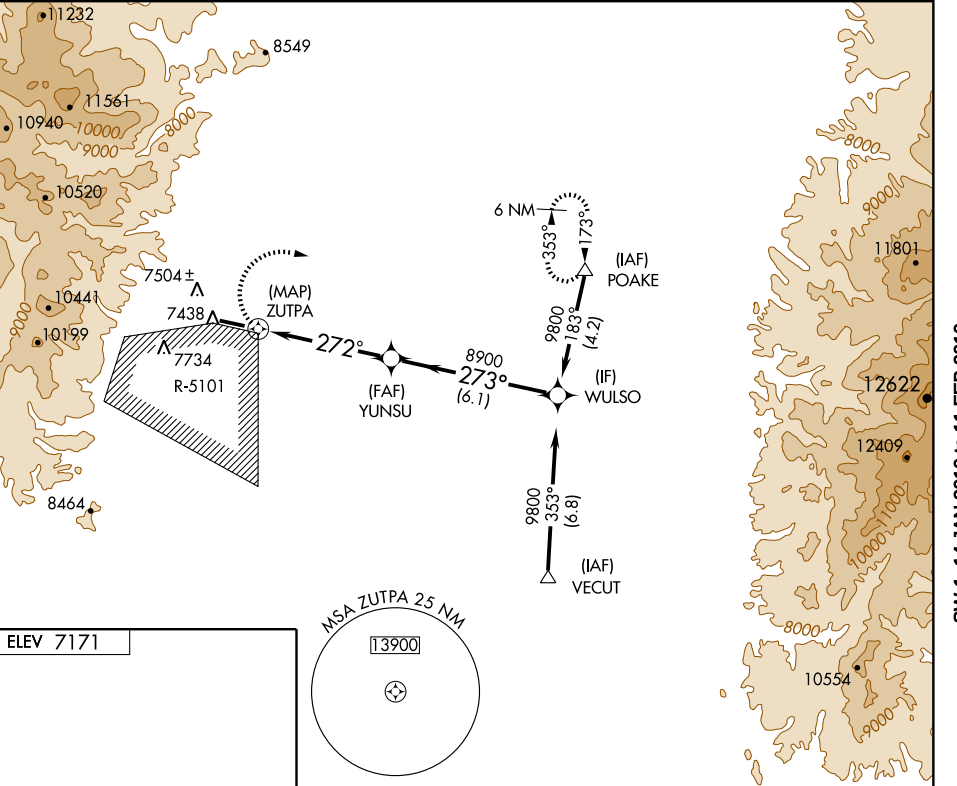
DME/DME RNP- 0.3 NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 11000 direct POAKE and hold.

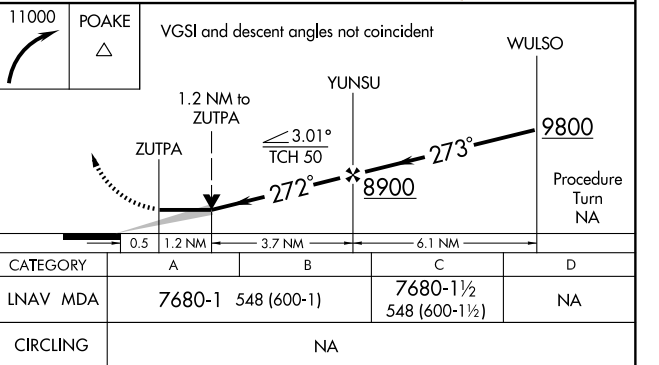
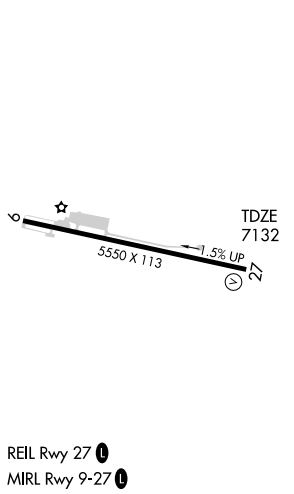
AWOS-3
124.175

ALBUQUERQUE CENTER
132.8 346.35

UNICOM
123.0 (CTAF)



ELEV 7171

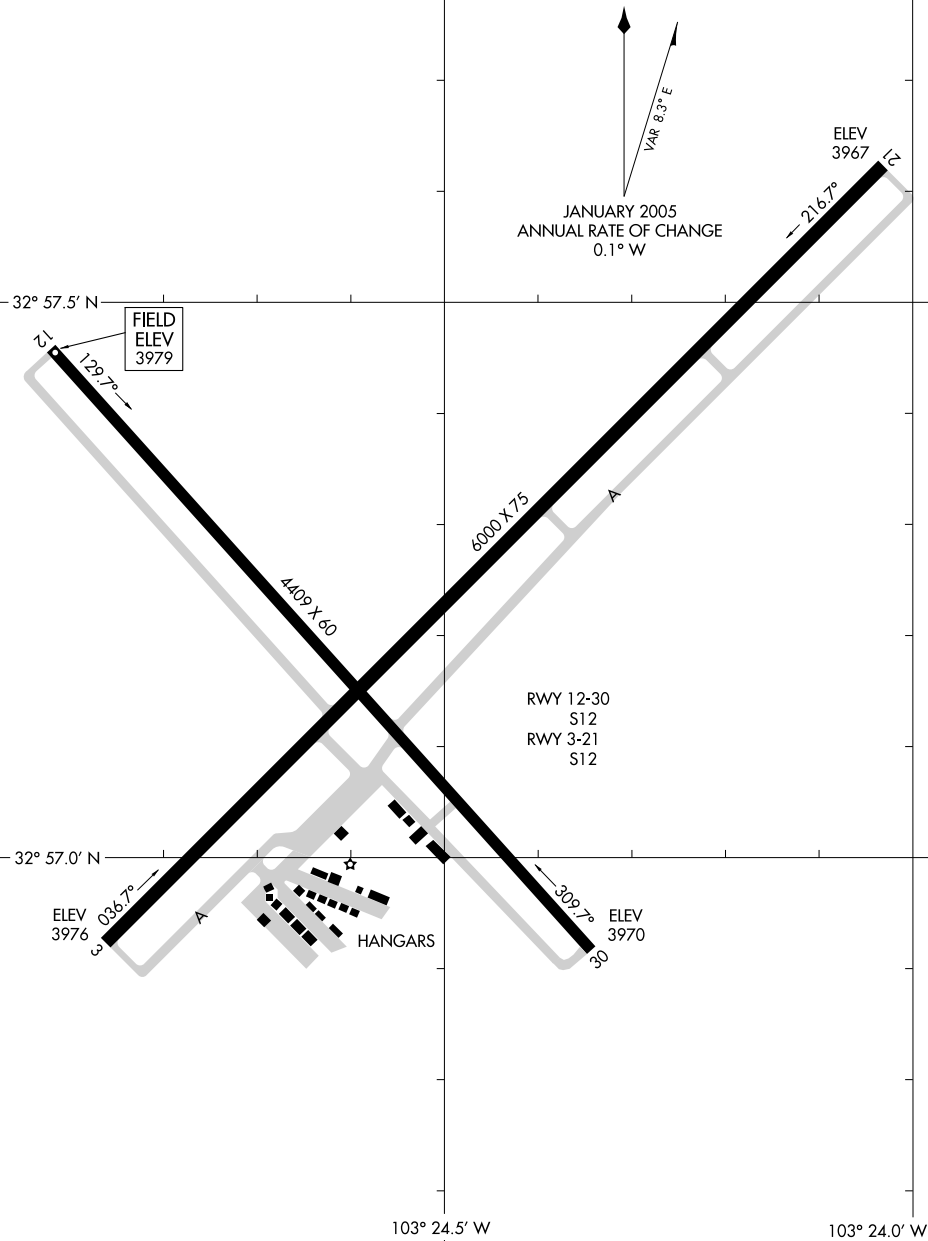


SW-1. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

LOVINGTON/LEA COUNTY-ZIP FRANKLIN MEMORIAL (E06)
AL-6951 (FAA) LOVINGTON, NEW MEXICO

UNICOM 122.8 (CTAF)



SW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS 215°	Rwy Idg TDZE Apt Elev	6000 3972 3979
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RNAV (GPS) RWY 21

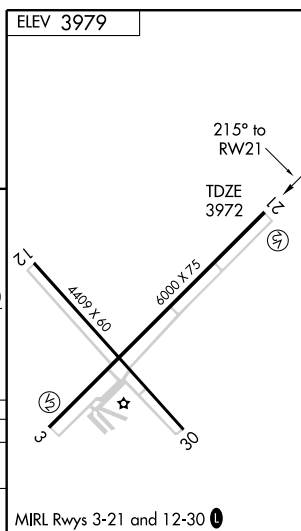
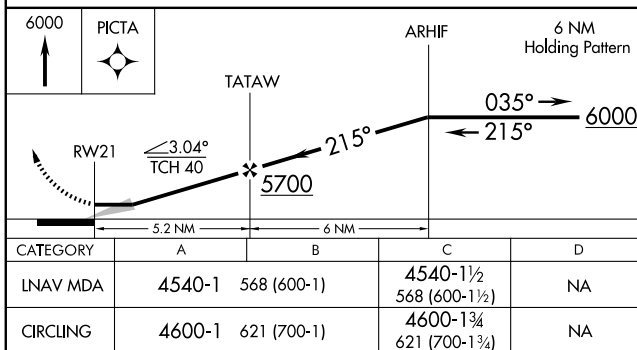
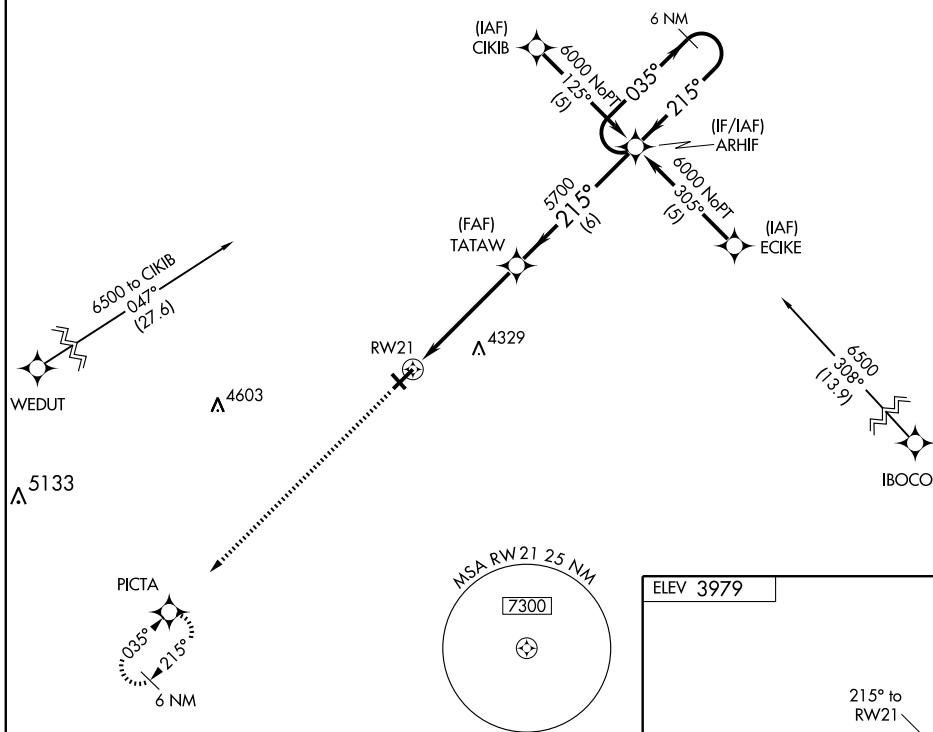
LOVINGTON/ LEA COUNTY- ZIP FRANKLIN MEMORIAL (E06)

T	DME/DME RNP- 0.3 NA.
A NA	Use Hobbs altimeter setting, when not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct PICTA and hold.

FORT WORTH CENTER
133.1 298.95

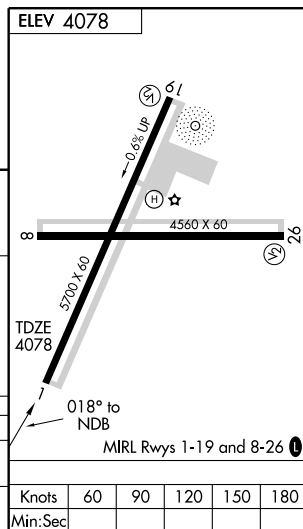
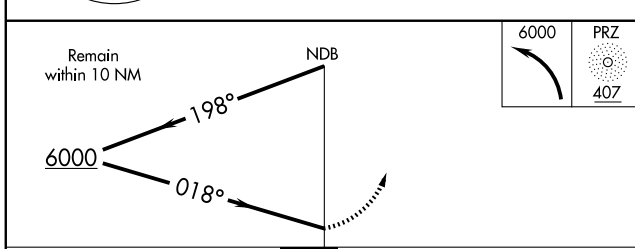
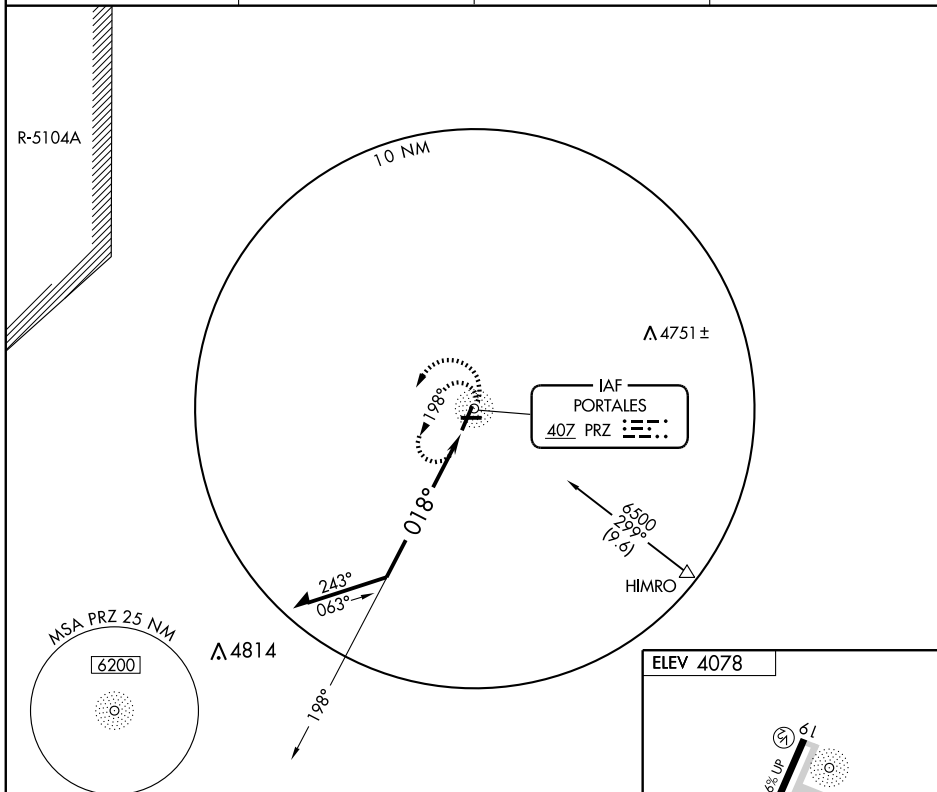
UNICOM
122.8 (CTAF) **L**



NDB PRZ <u>407</u>	APP CRS 018°	Rwy Idg 5700 TDZE 4078 Apt Elev 4078
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NDB RWY 1
PORTALES MUNI (PRZ)

 NA	When local altimeter setting not received, use Clovis Muni altimeter setting and increase all MDAs 80 feet.	MISSED APPROACH: Climbing left turn to 6000 in PRZ NDB holding pattern.	
AWOS-3 118.175	CANNON APP CON ★ 125.5 352.1	CANNON CLNC DEL 119.0	UNICOM 122.8 (CTAF) 0



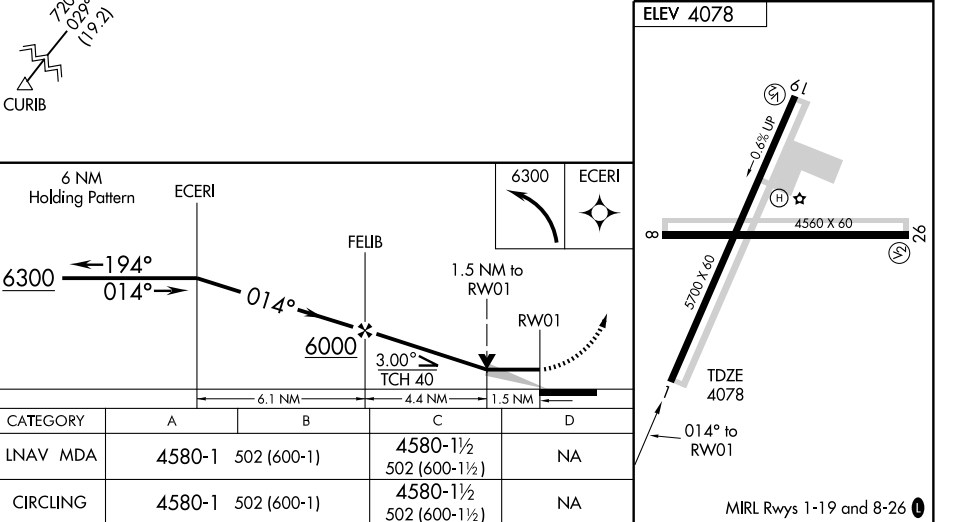
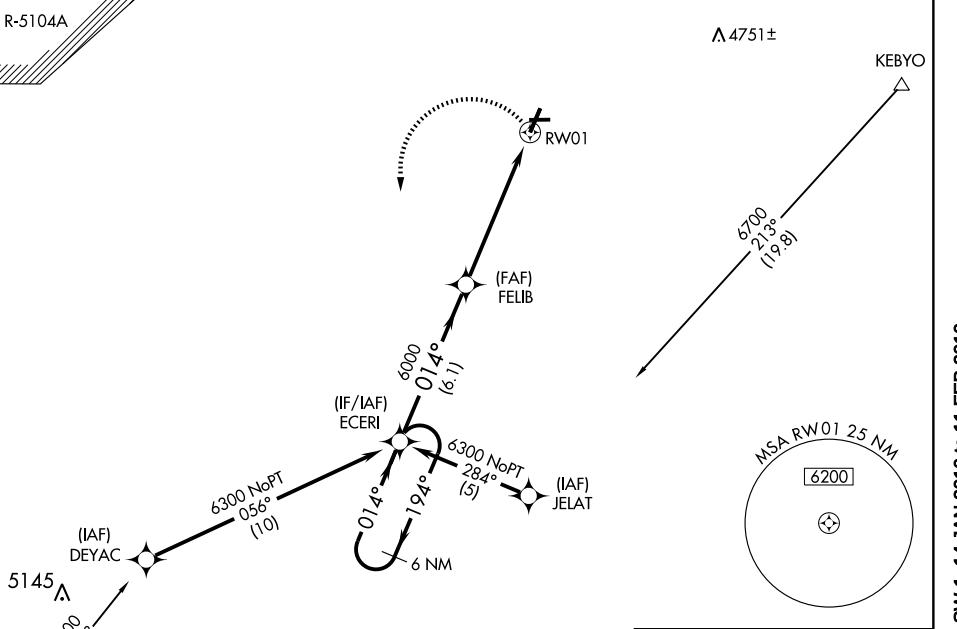
CATEGORY	A	B	C	D
S-1	4680-1	602 (700-1)	4680-1 ³⁴ 602 (700-1 ³⁴)	NA
CIRCLING	4680-1	602 (700-1)	4680-1 ³⁴ 602 (700-1 ³⁴)	NA

⚠

DME/DME RNP- 0.3 NA.
VDP NA when using Clovis Muni altimeter setting.
If local altimeter setting not received, use Clovis Muni altimeter setting and increase all MDAs 80 feet.

MISSED APPROACH: Climbing left turn to 6300 direct ECERI and hold.

AWOS-3 118.175	CANNON APP CON * 125.5 352.1	CANNON CLNC DEL 119.0	UNICOM 122.8 (CTAF) 0
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SW-1. 14 JAN 2010 to 11 FEB 2010

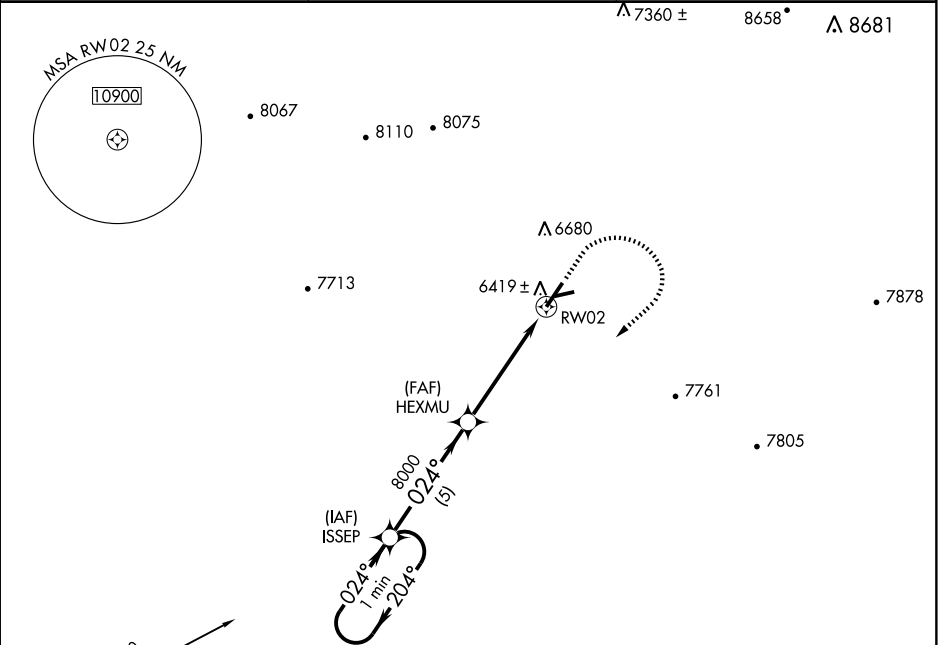
APP CRS	Rwy Idg	6328
024°	TDZE	6346
	Apt Elev	6352



Cat. D circling not authorized west of Rwy 2-20.

MISSED APPROACH: Climb to 7800 then climbing right turn to 9000 direct ISSEP WP and hold.

ASOS 118.375	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0 *
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One Minute Holding Pattern

ISSEP

7800 9000 ISSEP

9000 ← 204° 024° →

VGSI and descent angles not coincident.

HEXMU

8000

1 NM to RW02

3.08° TCH 35

5 NM 4 NM 1 NM

CATEGORY	A	B	C	D
S-2	6680-1 334 (400-1)			
CIRCLING	6820-1 468 (500-1)	6880-1 528 (600-1)	6880-1½ 528 (600-1½)	6920-2 568 (600-2)

ELEV 6352

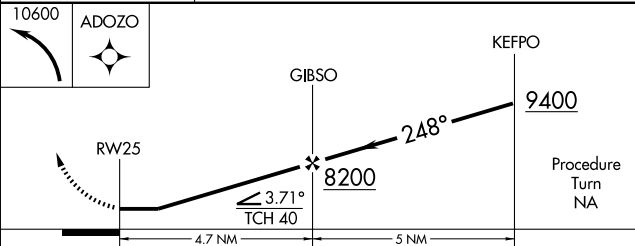
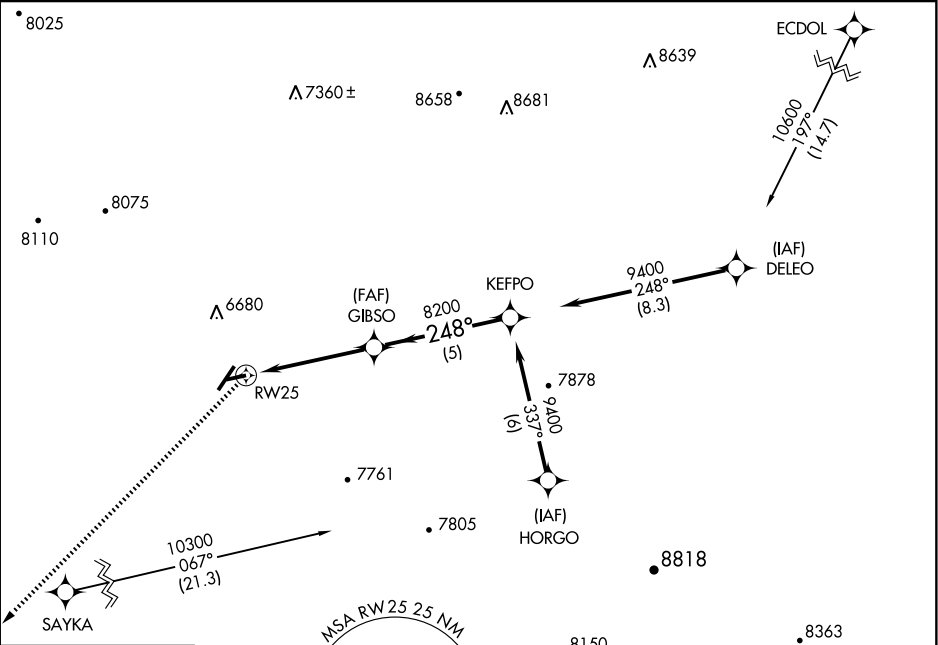
MIRL Rwy 2-20 and 7-25 0

NA

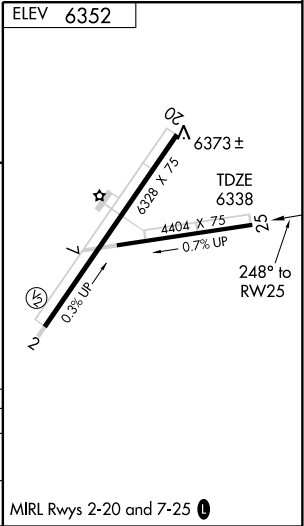
Cat. D circling not authorized west of Rwy 2-20.

MISSED APPROACH: Climbing left turn to 10600 direct ADOZO WP and hold.

ASOS 118.375	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0*
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CATEGORY	A	B	C	D
S-25	6640-1 302 (300-1)			
CIRCLING	6820-1 468 (500-1)	6880-1 528 (600-1)	6880-1½ 528 (600-1½)	6920-2 568 (600-2)



NDB RWY 2

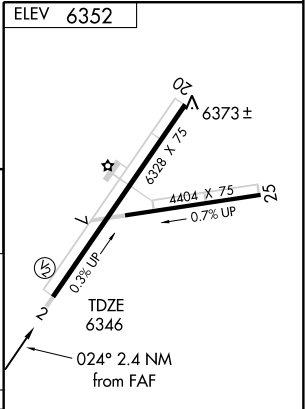
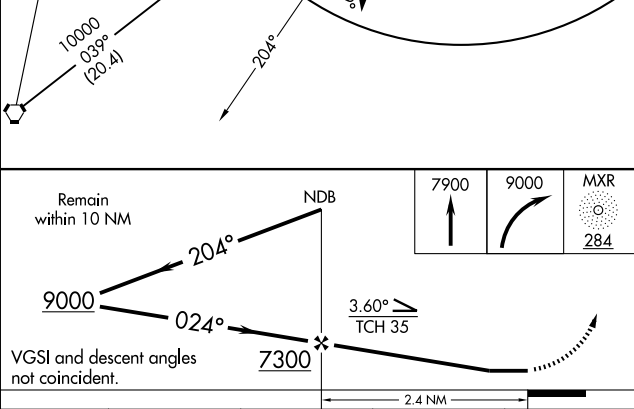
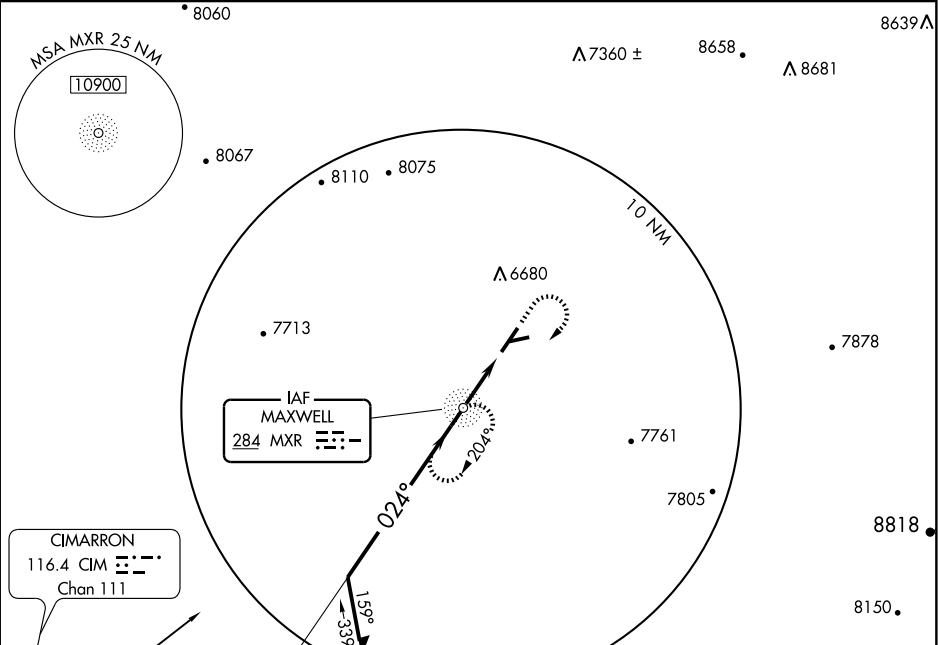
RATON MUNI/CREWS FIELD (RTN)

NDB MXR	APP CRS	Rwy Idg	6328
284	024°	TDZE	6346
		Apt Elev	6352

NA Cat. D circling not authorized west of Rwy 2-20.

MISSED APPROACH: Climb to 7900 then climbing right turn to 9000 direct MXR NDB and hold.

ASOS 118.375	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0★
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CATEGORY	A	B	C	D	MIRL Rwy 2-20 and 7-25 0
S-2	6720-1	374 (400-1)	6720-1 ¼	374 (400-1 ¼)	FAF to MAP 2.4 NM
CIRCLING	6820-1 468 (500-1)	6880-1 528 (600-1)	6880-1 ½ 528 (600-1 ½)	6920-2 568 (600-2)	Knots Min:Sec
					60 90 120 150 180 2:24 1:36 1:12 0:58 0:48

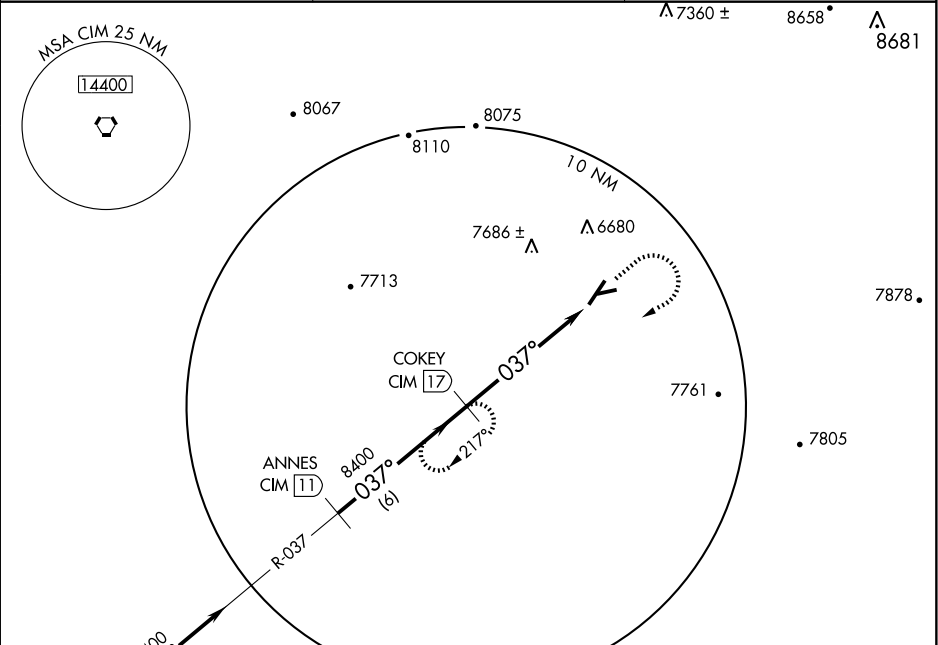
⚠

⚠

Cat. D circling not authorized west of Rwy 2-20.

MISSED APPROACH: Climb to 7900 then climbing right turn to 9200 via CIM R-037 to COKEY 17 DME and hold.

ASOS 118.375	ALBUQUERQUE CENTER 132.8 346.35	UNICOM 122.8 (CTAF) 0*
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ELEV 6352				
MRL Rwy 2-20 and 7-25 1				
Knots 60 90 120 150 180				
Min:Sec				
CATEGORY	A	B	C	D
S-2	7720-1¼ 1374 (1400-1¼)	7720-1½ 1374 (1400-1½)	7720-3	1374 (1400-3)
CIRCLING	7720-1¼ 1368 (1400-1¼)	7720-1½ 1368 (1400-1½)	7720-3	1368 (1400-3)

07275

ROSWELL INTL AIR CENTER (ROW)
ROSWELL, NEW MEXICO



LOC I-ROW
109.9
Chan 36

APCH CRS
215°

Rwy Idg
TDZE
Arprt Elev
13,001
3632
3669

JAL-354 [USAF]

ROSWELL INTL AIR CENTER (KROW)

▼ *When ALS inop, increase CAT D vis to 1¼ miles and CAT E vis to 1½ miles.
USE I-ROW DME WHEN ON LOCALIZER COURSE.

MALSR
A5

MISSED APPROACH: Climb to 4300 then climbing right turn to 6500 direct CME VORTAC.

ATIS
128.45 306.2

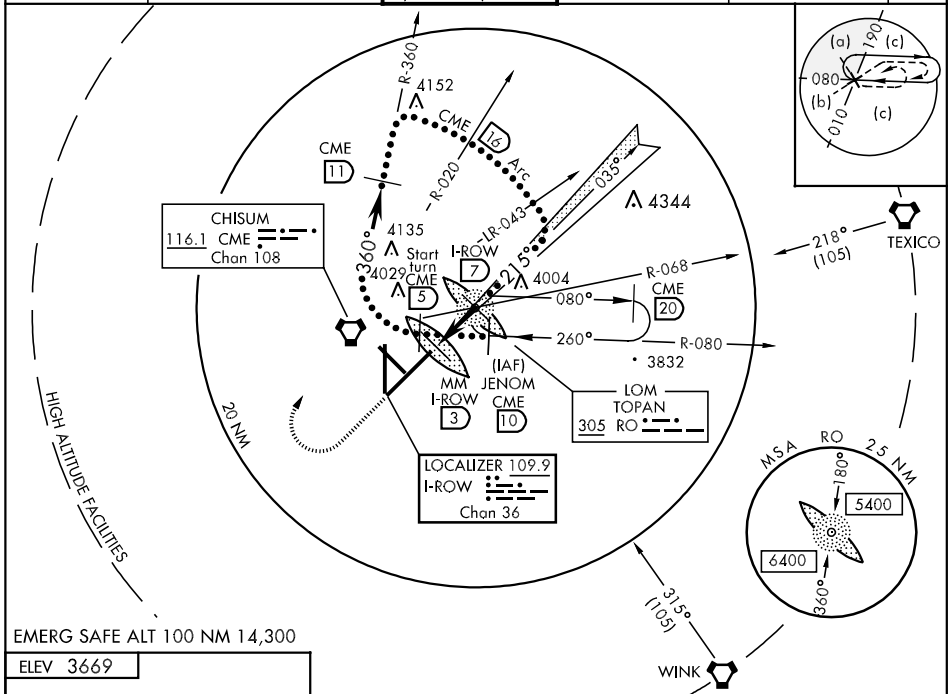
ROSWELL APP CON
119.60* (RWY 17-35) 239.0

ROSWELL TOWER ★
118.5 (CTAF) 0
(RWY 3-21) 233.7

CLNC DEL
132.875 282.25

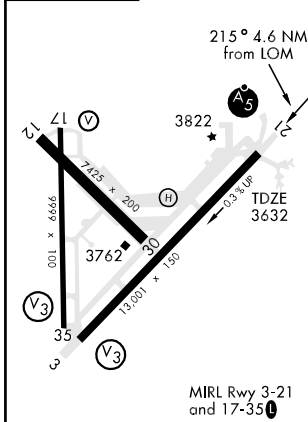
GND CON
121.9 348.6

ASR

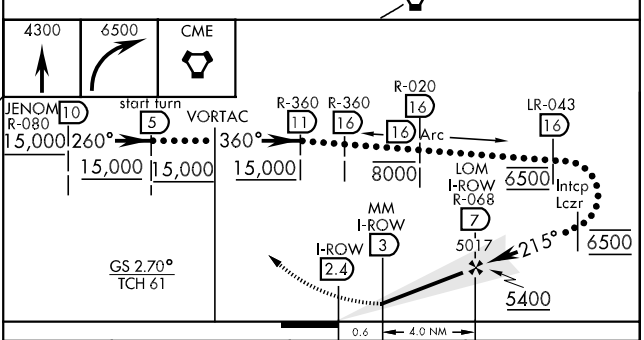


EMERG SAFE ALT 100 NM 14,300

ELEV 3669



FAF to MAP 4.6 NM					
Knots	120	140	160	180	200
Min:Sec	2:18	1:58	1:43	1:32	1:23



CATEGORY	C	D	E
S-ILS 21	3837-½	205	(200-½)
S-LOC 21	4000-½ 368 (400-½)	4000-¾	368 (400-¾)
CIRCLING	4140-1½ 471 (500-1½)	4220-2 551 (600-2)	4380-2½ 711 (800-2½)
S-ASR 21 *	4040-¾ 408 (400-¾)	4040-1	408 (400-1)

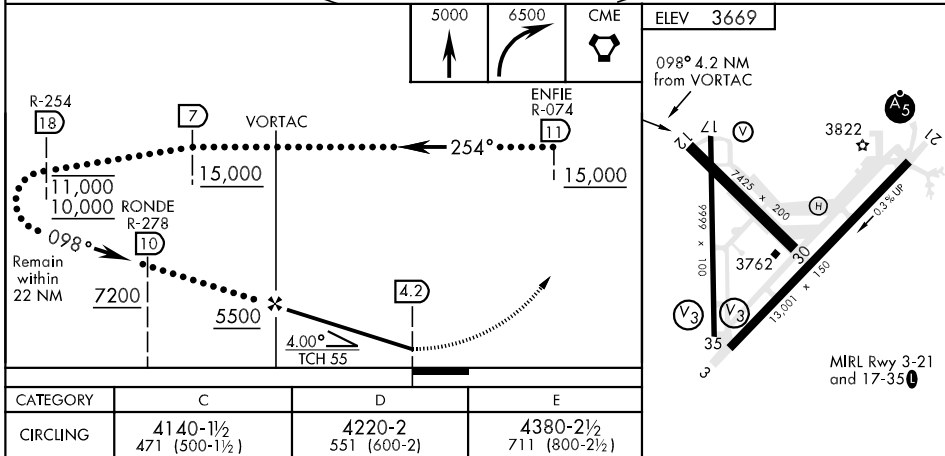
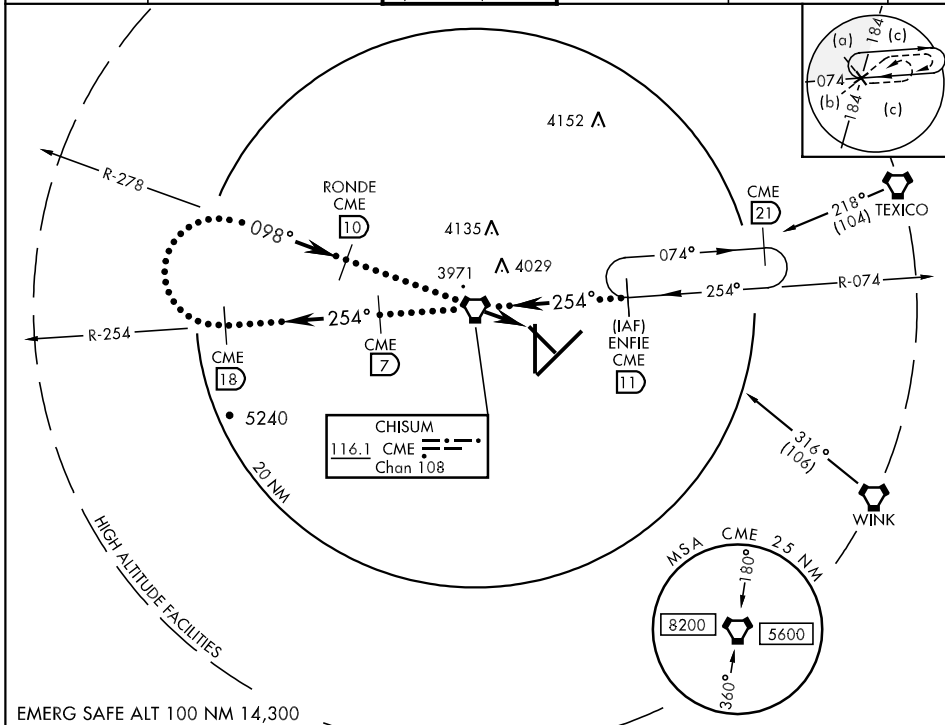
VORTAC CME 116.1 Chan 108	APCH CRS 098°	Rwy ldg TDZE Arprt Elev 3669
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JAL-354 [USAF]

ROSWELL INTL AIR CENTER (KROW)

▽		MISSED APPROACH: Climb to 5000 then climbing right turn to 6500 direct CME VORTAC			
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ATIS 128.45 306.2	ROSWELL APP CON 119.60 * (RWY 17-35) 239.0	ROSWELL TOWER ★ 118.5 (CTAF) 0 ★ (RWY 3-21) 233.7	CLNC DEL 132.875 282.25	GND CON 121.9 348.6	ASR
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LOC/DME I-ROW 109.9 Chan 36	APP CRS 215°	Rwy Idg 13001 TDZE 3632 Apt Elev 3669
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ILS RWY 21
ROSWELL INTL AIR CENTER (ROW)



MALSR



MISSED APPROACH: Climb to 4300 then climbing right turn to 6000 direct CME VORTAC and hold.

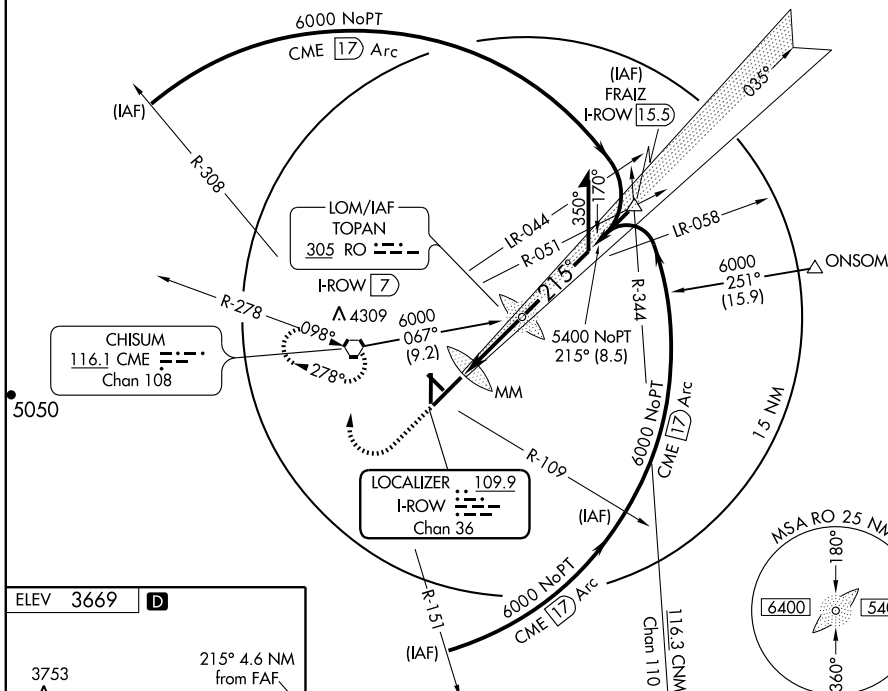
ATIS
128.45 306.2

ROSWELL APP CON★
119.6 239.0

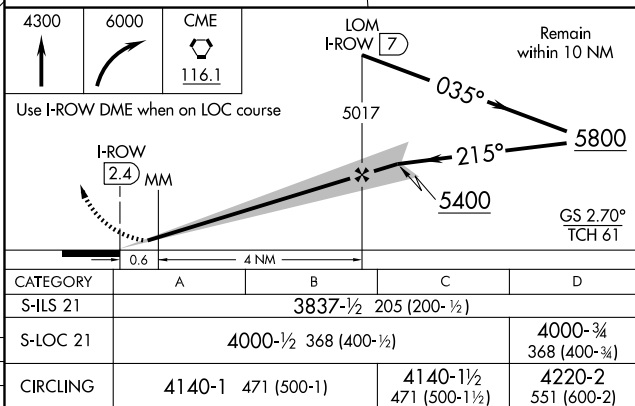
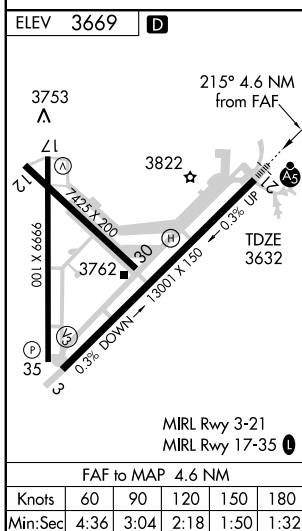
ROSWELL TOWER ★
118.5 (CTAF) **L** 233.7

GND CON
121.9 348.6

CLNC DEL
132.875 282.25

UNICOM
122.95

SW-1: 14 JAN 2010 to 11 FEB 2010



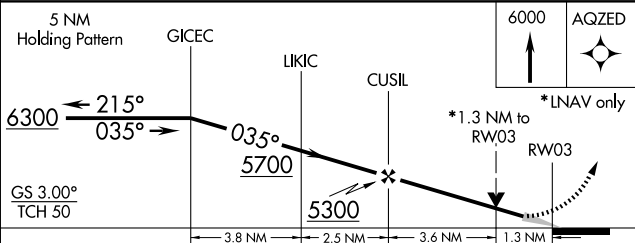
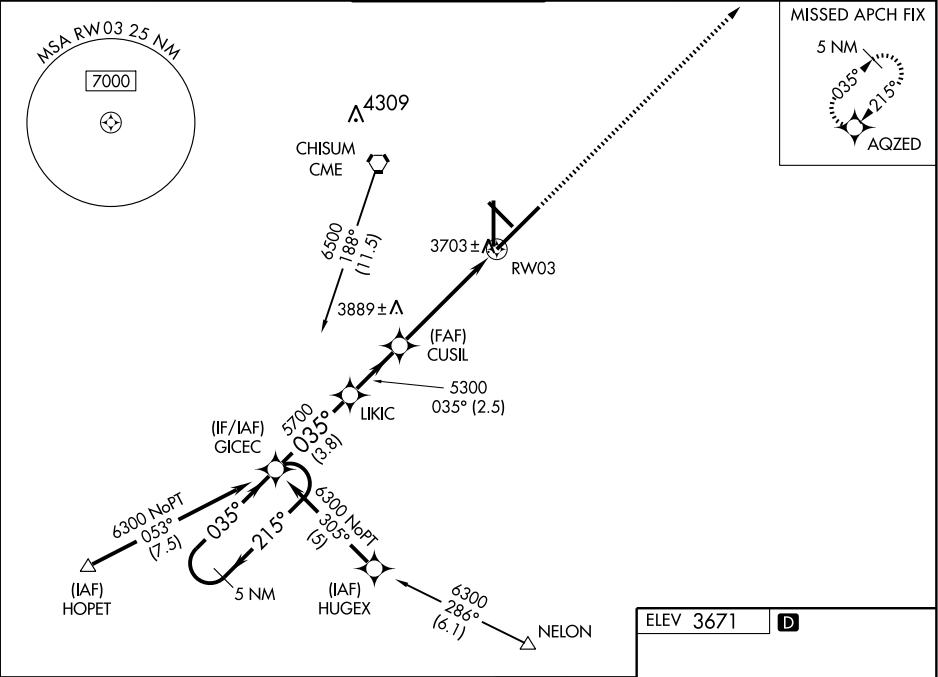
WAAS CH 50202 W03A	APP CRS 035°	Rwy Idg 13001 TDZE 3667 Apt Elev 3671
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RNAV (GPS) RWY 3
ROSWELL INTL AIR CENTER (ROW)

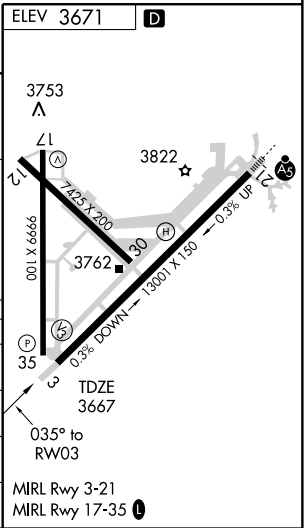
⚠ DME/DME RNP-0.3 NA.
ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (106°F).
If local altimeter setting not received, use Artesia altimeter setting and increase all DAs/MDAs 100 feet.
VDP and Baro-VNAV NA when using Artesia altimeter setting.

MISSED APPROACH: Climb to 6000 direct AQZED and hold.

ATIS 128.45 306.2	ROSWELL APP CON ★ 119.6 239.0	ROSWELL TOWER ★ 118.5 (CTAF) 0 233.7	GND CON 121.9 348.6	CLNC DEL 132.875 282.25	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3917-3/4 250 (300-3/4)			
LNAV/VNAV DA	3987-1 320 (400-1)			
LNAV MDA	4140-1	473 (500-1)	4140-1 1/4 473 (500-1 1/4)	4140-1 1/2 473 (500-1 1/2)
CIRCLING	4140-1	469 (500-1)	4140-1 1/2 469 (500-1 1/2)	4240-2 569 (600-2)



WAAS CH 65702 W17A	APP CRS 170°	Rwy Idg 9999 TDZE 3666 Apt Elev 3671
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RNAV (GPS) RWY 17
ROSWELL INTL AIR CENTER (ROW)

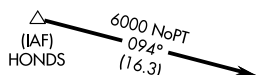
DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (106°F).

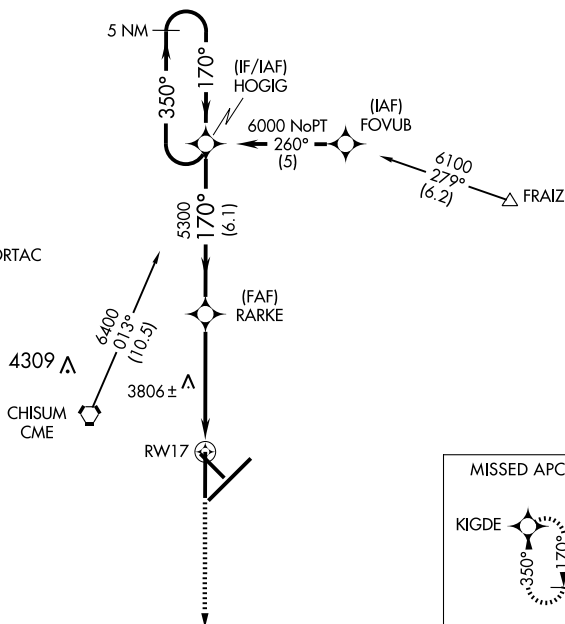
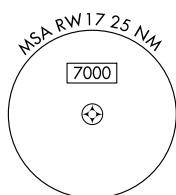
If local altimeter setting not received, use Artesia altimeter setting and increase all DAs/MDAs 100 feet.
VDP and Baro-VNAV NA when using Artesia altimeter setting.

MISSED APPROACH: Climb to 6000 direct KIGDE and hold.

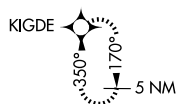
ATIS 128.45 306.2	ROSWELL APP CON★ 119.6 239.0	ROSWELL TOWER★ 118.5 (CTAF) 0 233.7	GND CON 121.9 348.6	CLNC DEL 132.875 282.25	UNICOM 122.95
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Procedure NA for arrivals at CME VORTAC
on airway radials 313 CW 073.



MISSED APCH FIX

[illegible]

RARKE

HOGIG

5 NM Holding Pattern

6000

350°

170°

5300

***LNAV only**

***1.3 NM to RW17**

1.3 NM

3.6 NM

6.1 NM

GS 3.00° TCH 50

CATEGORY	A	B	C	D
LPV DA	3916- ³ / ₄ 250 (300- ³ / ₄)			
LNAV/VNAV DA	4003-1 ¹ / ₄ 337 (400-1 ¹ / ₄)			
LNAV MDA	4120-1	454 (500-1)	4120-1 ¹ / ₄ 454 (500-1 ¹ / ₄)	4120-1 ¹ / ₂ 454 (500-1 ¹ / ₂)
CIRCLING	4140-1 ¹ / ₄	469 (500-1 ¹ / ₄)	4140-1 ¹ / ₂ 469 (500-1 ¹ / ₂)	4240-2 569 (600-2)

WAAS CH 69302 W21A	APP CRS 215°	Rwy Idg 13001 TDZE 3633 Apt Elev 3671
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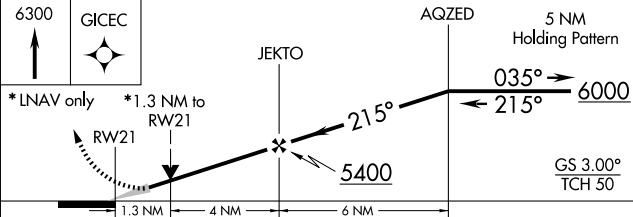
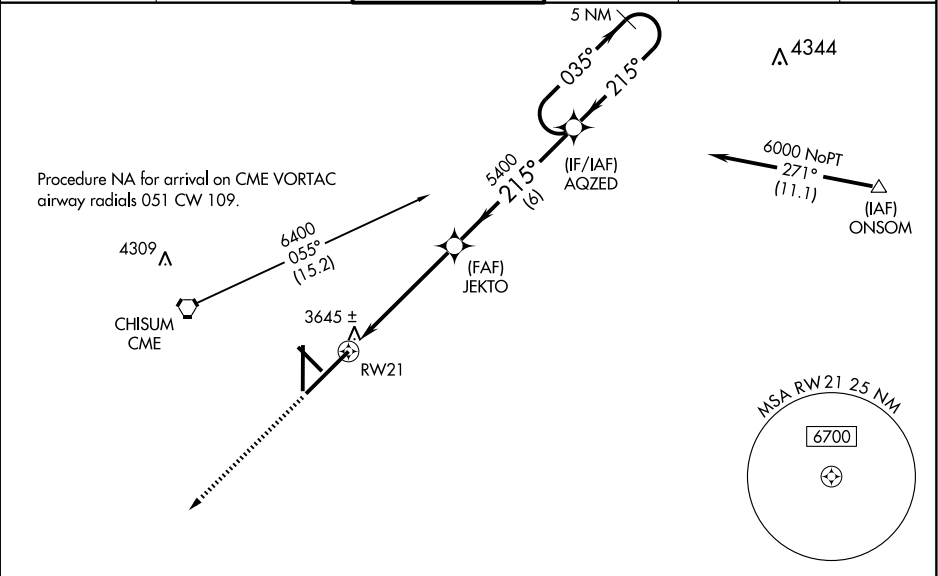
RNAV (GPS) RWY 21
ROSWELL INTL AIR CENTER (ROW)

DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (106°F).
If local altimeter setting not received, use Artesia altimeter setting and increase all DAs/MDAs 100 feet.
VDP and Baro-VNAV NA when using Artesia altimeter setting.
For inoperative MALSR increase LPV all Cats. visibility to 1.

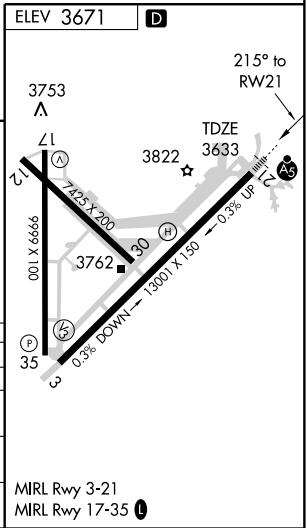
MALSR

MISSED APPROACH: Climb to 6300 direct GICEC and hold.

ATIS 128.45 306.2	ROSWELL APP CON ★ 119.6 239.0	ROSWELL TOWER ★ 118.5(CTAF) 0 233.7	GND CON 121.9 348.6	CLNC DEL 132.875 282.25	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3899-1/2 266 (300-1/2)			
LNAV/VNAV DA	3981-3/4 348 (400-3/4)			
LNAV MDA	4080-1/2 447 (500-1/2)		4080-3/4 447 (500-3/4)	4080-1 447 (500-1)
CIRCLING	4140-1/4 469 (500-1/4)		4140-1/2 469 (500-1/2)	4240-2 569 (600-2)



WAAS
CH 70402
W35A

APP CRS
350°

Rwy Idg
TDZE
Apt Elev

9999
3671
3671

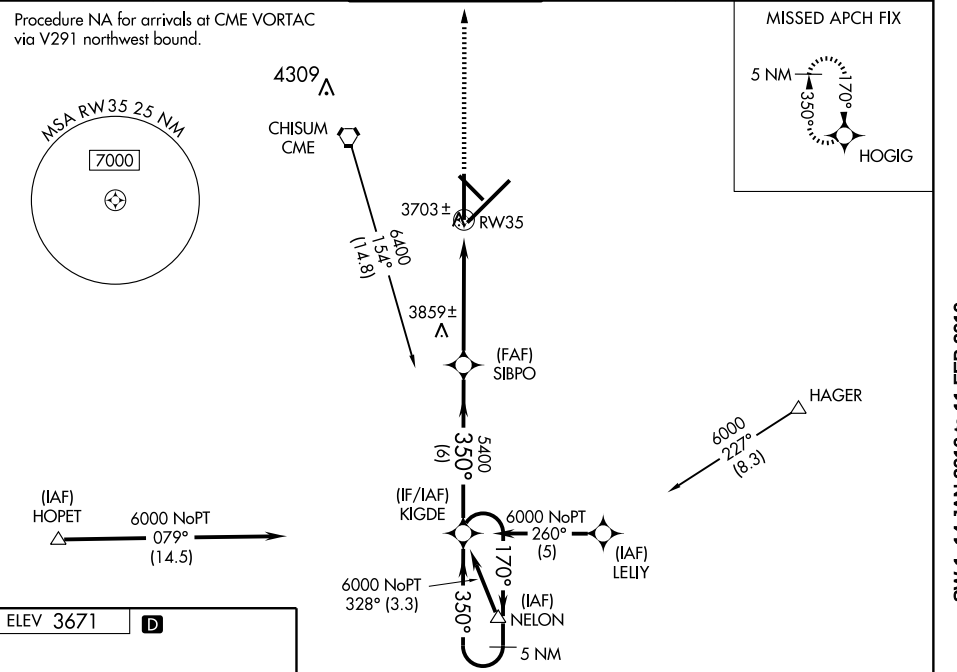
▼

ASR

DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (106°F).
If local altimeter setting not received, use Artesia altimeter setting and increase all DAs/MDAs 100 feet.
VDP and Baro-VNAV NA when using Artesia altimeter setting.

MISSED APPROACH: Climb to 6000 direct HOGIG and hold.

ATIS 128.45 306.2	ROSSELL APP CON ★ 119.6 239.0	ROSSELL TOWER ★ 118.5(CTAF) 0 233.7	GND CON 121.9 348.6	CLNC DEL 132.875 282.25	UNICOM 122.95
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VORTAC CME <u>116.1</u> Chan 108	APP CRS 098°	Rwy Idg N/A TDZE N/A Apt Elev 3671
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VOR-B
ROSWELL INTL AIR CENTER (ROW)

T	If local altimeter setting not received, procedure NA.
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MISSED APPROACH: Climbing right turn to 6000 direct CME VORTAC and hold.

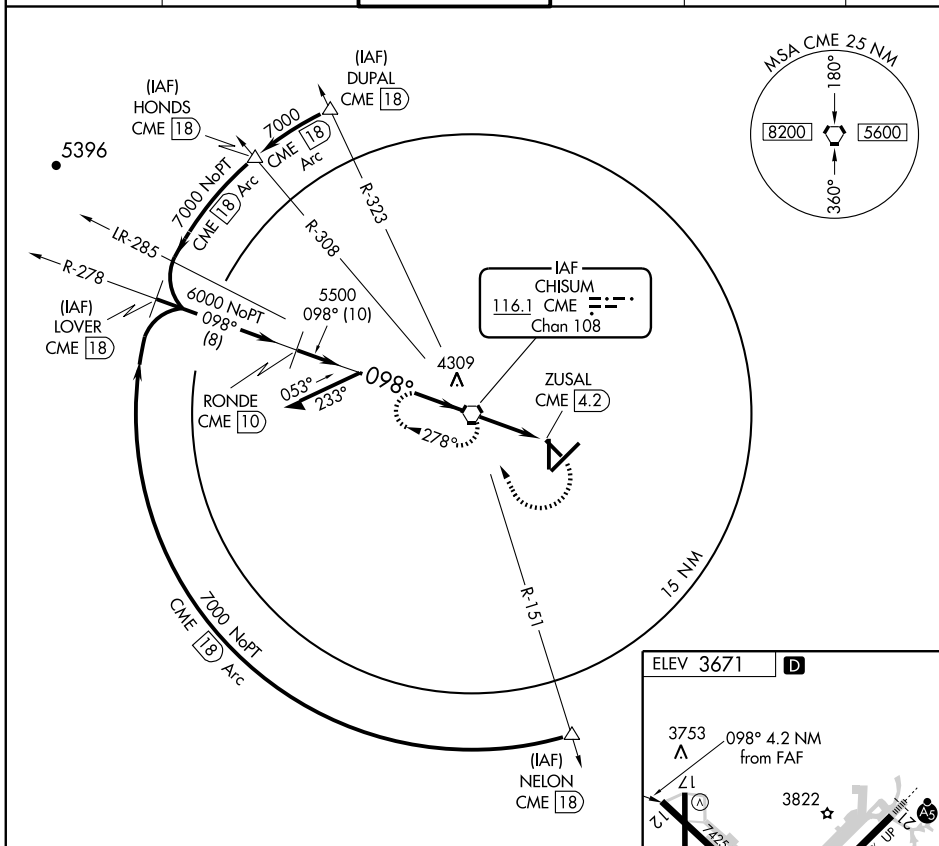
ATIS
128.45 306.2

ROSWELL APP CON★
119.6 239.0

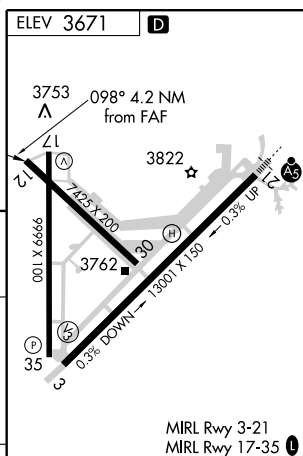
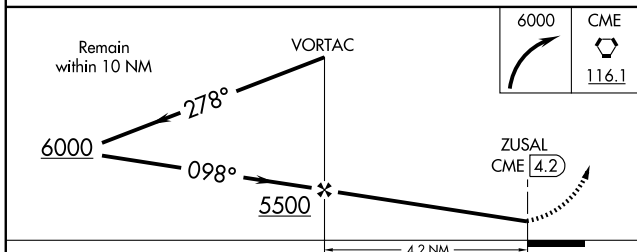
ROSWELL TOWER ★
118.5 (CTAF) **L** 233.7

GND CON
121.9 348.6

CLNC DEL
132.875 282.25

UNICOM
122.95

SW-1: 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D	FAF to MAP 4.2 NM					
CIRCLING	4140-1	469 (500-1)	4140-1½ 469 (500-1½)	4240-2 569 (600-2)	Knots	60	90	120	150	180
					Min:Sec	4:12	2:48	2:06	1:41	1:24

GPS RWY 24

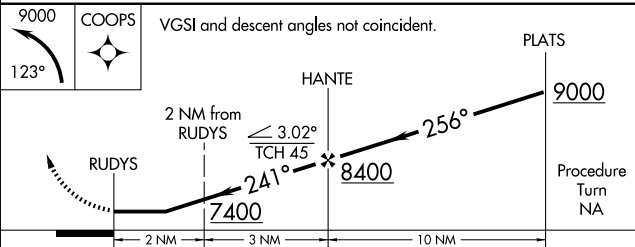
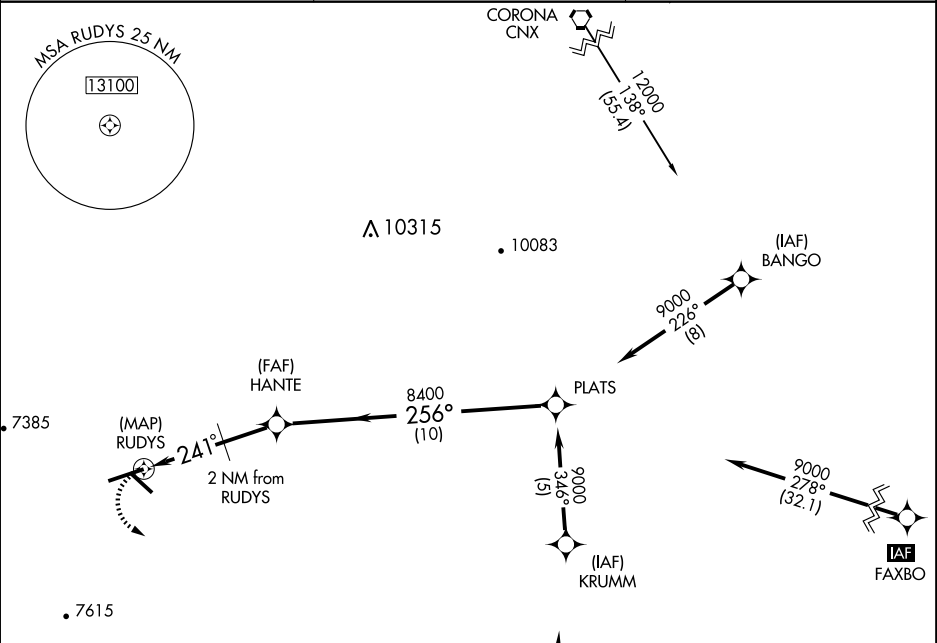
RUIDOSO/ SIERRA BLANCA RGNL (SRR)

APP CRS 241°	Rwy Idg 8099 TDZE 6768 Apt Elev 6811
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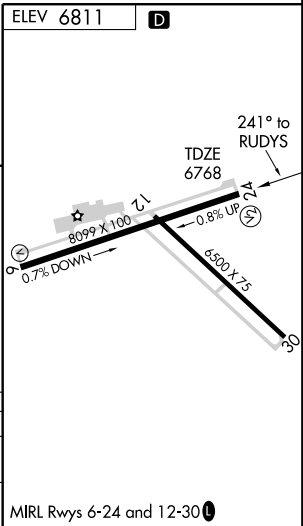
If local altimeter setting not received, procedure not authorized.
ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing left turn to 9000 via 123° course to COOPS WP and hold.

AWOS-3 126.475	ALBUQUERQUE CENTER 132.65 257.6	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-24	7200-1 432 (500-1)	7200-1¼ 432 (500-1¼)	7200-1½ 432 (500-1½)	7200-1¾ 432 (500-1¾)
CIRCLING	7240-1 429 (500-1)	7300-1 489 (500-1)	7320-1½ 509 (600-1½)	7440-2 629 (700-2)



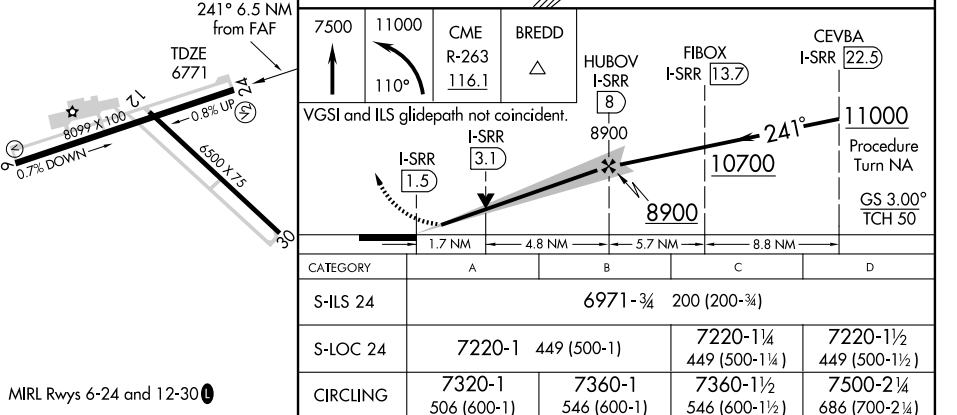
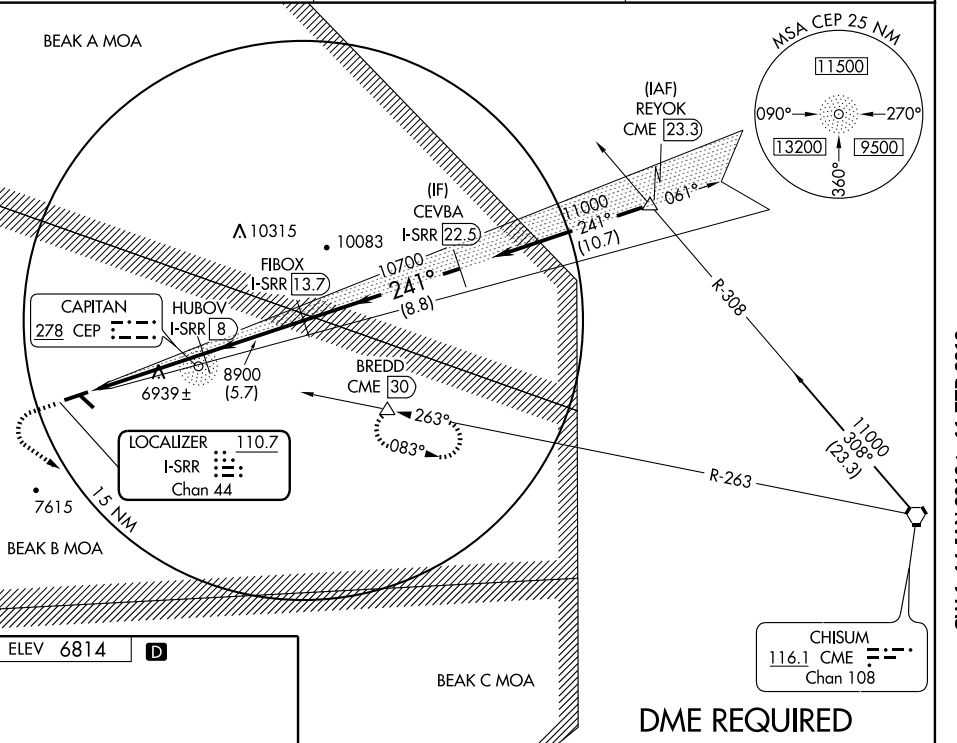
▼

NA

If local altimeter setting not received procedure not authorized.
Use I-SRR DME when on localizer course.
Circling not authorized to Rwy 12/30.

MISSED APPROACH: Climb to 7500 then climbing left turn to 11000 via heading 110° and CME VORTAC R-263 to BREDD/CME 30 DME and hold, continue climb-in-hold to 11000.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
126.475	132.65 257.6	122.8 (CTAF) 0



SW-1, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

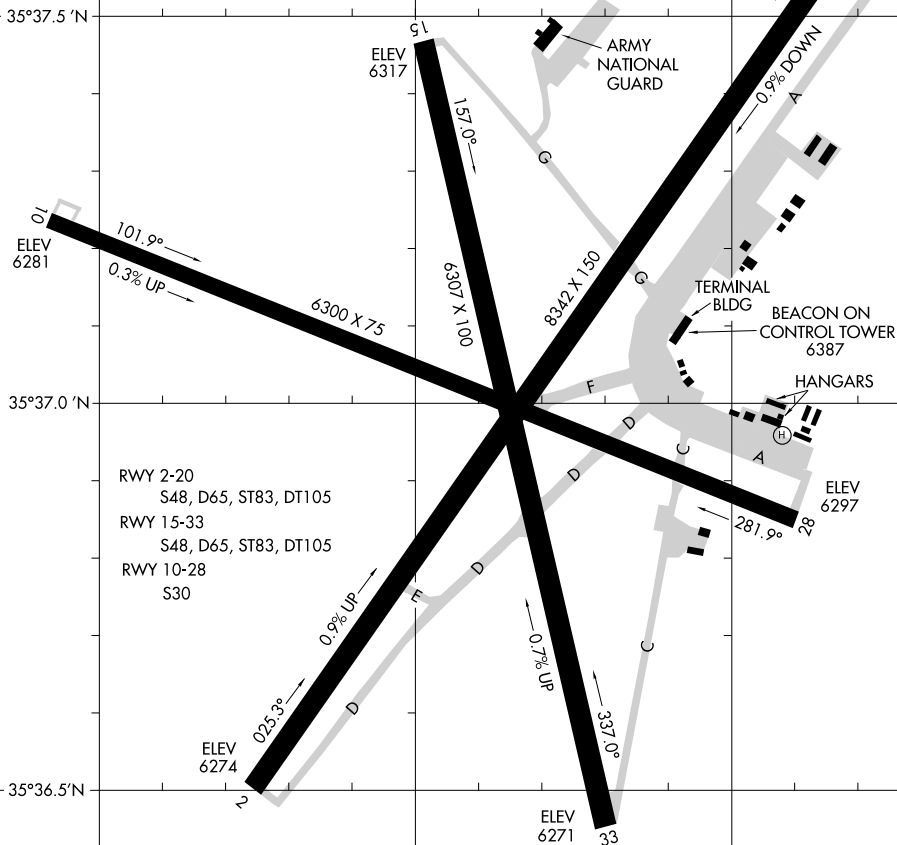
AL-548 (FAA)

 SANTA FE MUNI (SAF)
 SANTA FE, NEW MEXICO

 ATIS 128.55
 SANTA FE TOWER
 119.5 239.3
 GND CON
 121.7

 JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.1°W

VAR 9.8°E

FIELD
ELEV
6348

SW-1, 14 JAN 2010 to 11 FEB 2010

ATIS 128.55	ALBUQUERQUE CENTER 132.8 346.35	SANTA FE TOWER ★ 119.5 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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FAKER INT
I-SGB 15.5

CIBVU INT
I-SGB 10.3

DOMAN LOM/INT
I-SGB 5.4

I-SGB 3.1

I-SGB 1.6

7300

9000

SG
341

10400

023°

8800

7564

7800

7600

Procedure Turn NA

5.2 NM

4.9 NM

2.3 NM

1.5

GS 3.00°
TCH 51

CATEGORY	A	B	C	D
S-ILS 2	6503-¾ 200 (200-¾)			
S-LOC 2	6800-1	497 (500-1)	6800-1¼ 497 (500-1¼)	6800-1½ 497 (500-1½)
CIRCLING	6840-1	492 (500-1)	6920-1½ 572 (600-1½)	7020-2¼ 672 (700-2¼)

ELEV 6348

REIL Rwy 20, 15 and 33

MIRL Rwy 2-20 and 15-33

6387

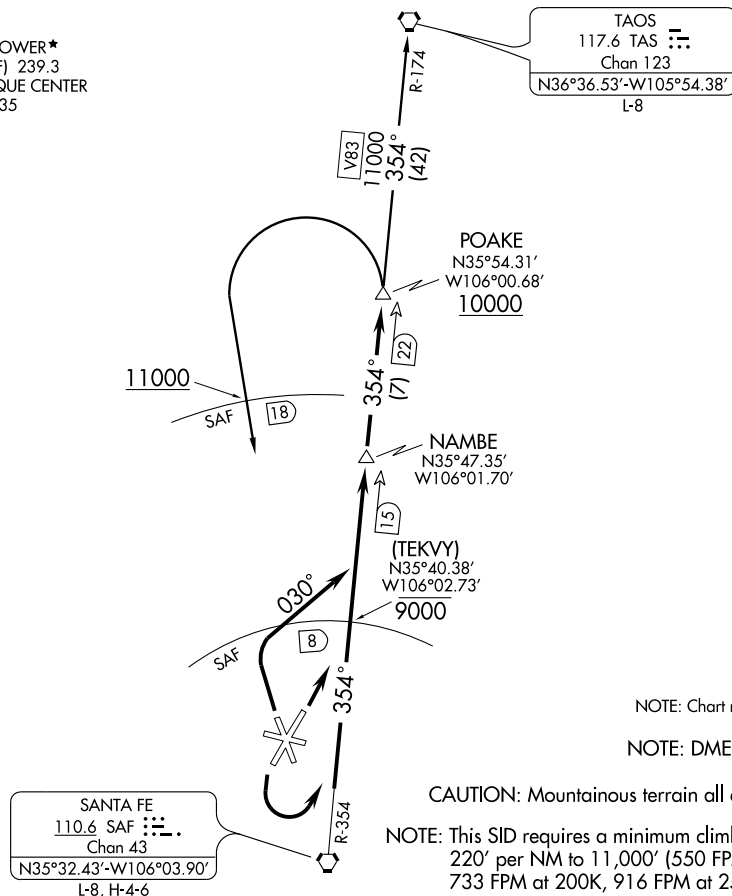
023° 3.8 NM from FAF

FAF to MAP 3.8 NM

Knots
60 90 120 150 180

Min:Sec
3:48 2:32 1:54 1:31 1:11

ATIS 128.55
GND CON
121.7
SANTA FE TOWER ★
119.5 (CTAF) 239.3
ALBUQUERQUE CENTER
132.8 346.35



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climb on runway heading to....

TAKE-OFF RUNWAY 20: Climbing left turn to....

TAKE-OFF RUNWAY 33: Climbing right turn to heading 030° to....

....Intercept and proceed via SAF R-354 to POAKE DME fix. Cross 8 DME north of SAF VORTAC at or below 9000'. Cross POAKE DME fix at or above 10000'. Thence via assigned (transition) or (route).

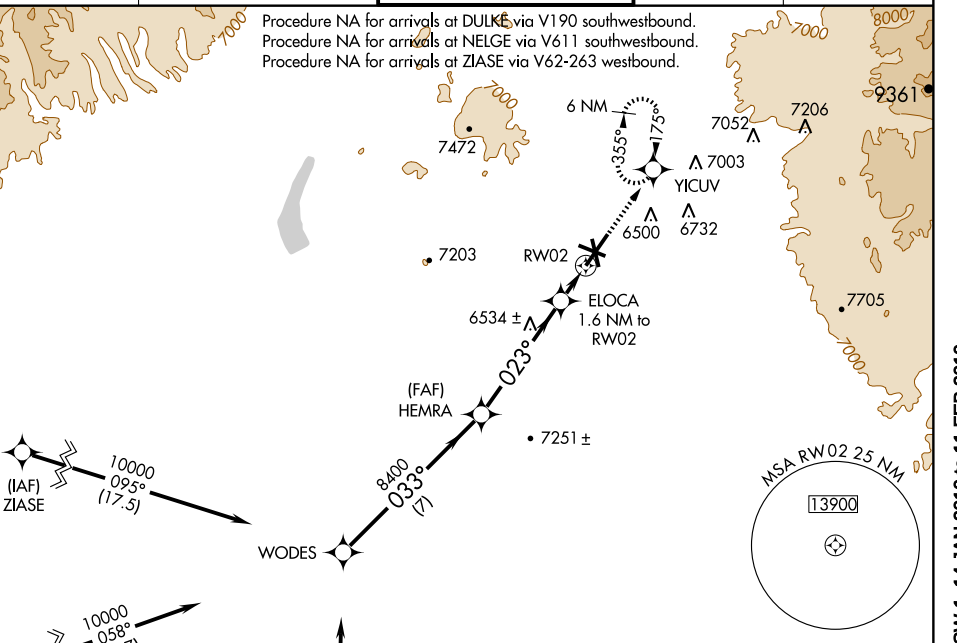
SANTA FE TRANSITION (POAKE1.SAF): From POAKE DME fix left turn direct SAF VORTAC. Thence via (assigned route). Cross 18 DME north of SAF VORTAC at or above 11000'.

TAOS TRANSITION (POAKE1.TAS): From POAKE DME fix via SAF R-354 and V83 (TAS R-174) to TAS VORTAC. Thence via (assigned route).

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct YICUV WP and hold.

ATIS 128.55	ALBUQUERQUE CENTER 132.8 346.35	SANTA FE TOWER ★ 119.5 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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ELEV 6348

REIL Rwy 20, 15 and 33

MIRL Rwy 2-20 and 15-33 0 6387

6387

CATEGORY	A	B	C	D
LNNAV MDA	6600-1 297 (300-1)			
CIRCLING	6840-1 492 (500-1)	6860-1 512 (600-1)	6880-1½ 532 (600-1½)	7040-2¼ 692 (700-2¼)

SW-1. 14 JAN 2010 to 11 FEB 2010

▼

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

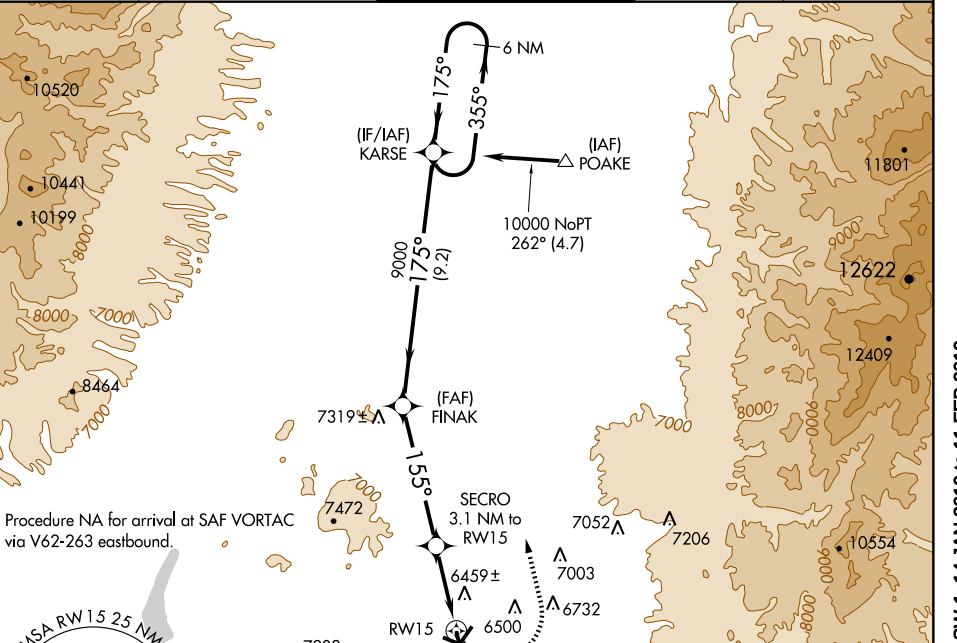
▲ NA

Procedure NA at night.

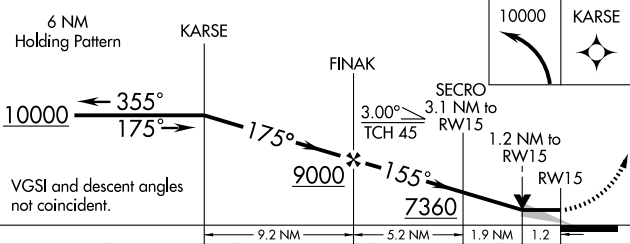
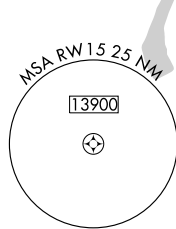
MISSED APPROACH:

Climbing left turn to 10000 direct KARSE WP and hold.

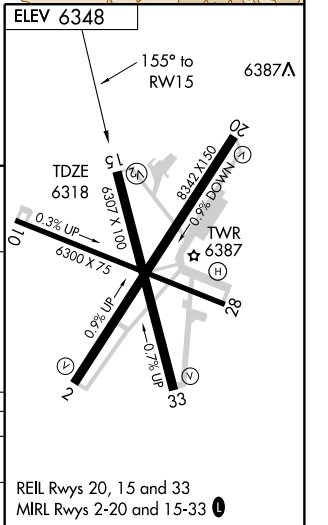
ATIS 128.55	ALBUQUERQUE CENTER 132.8 346.35	SANTA FE TOWER ★ 119.5 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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Procedure NA for arrival at SAF VORTAC via V62-263 eastbound.



CATEGORY	A	B	C	D
LNNAV MDA	6720-1	402 (400-1)	6720-1¼	402 (400-1¼)
CIRCLING	6840-1 492 (500-1)	6860-1 512 (600-1)	6880-1½ 532 (600-1½)	7040-2¼ 692 (700-2¼)



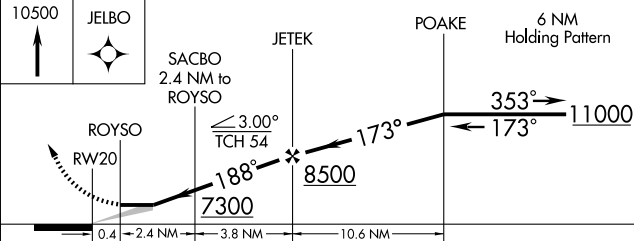
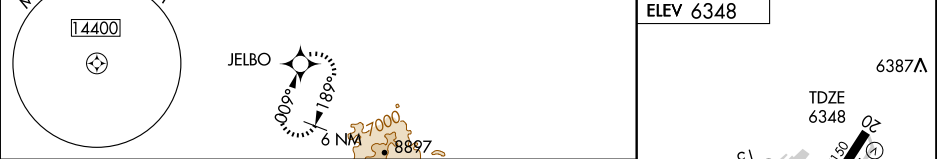
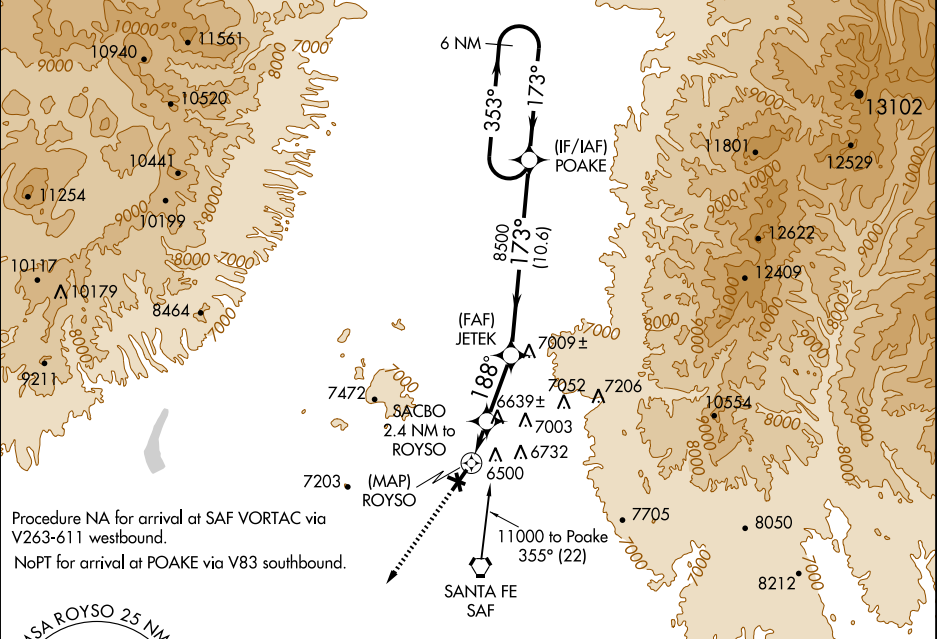
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Procedure NA at night.

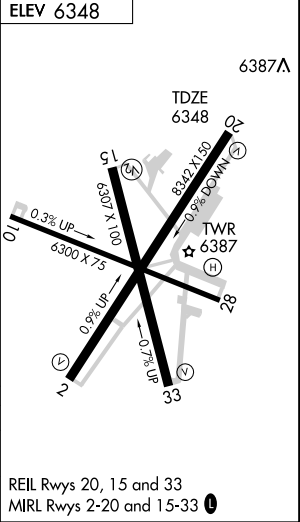
MISSED APPROACH:

Climb to 10500 direct JELBO WP and hold.

ATIS 128.55	ALBUQUERQUE CENTER 132.8 346.35	SANTA FE TOWER ★ 119.5 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LNNAV MDA	6900-1 552 (600-1)	6900-1½ 552 (600-1½)	6900-1¾ 552 (600-1¾)	6900-2 552 (600-2)
CIRCLING	6900-1 552 (600-1)	6900-1½ 552 (600-1½)	6900-2 552 (600-2)	692 (700-2¼)



APP CRS 285°	Rwy Idg TDZE Apt Elev	6300 6307 6348
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RNAV (GPS) RWY 28
SANTA FE MUNI (SAF)

T GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
A NA Procedure NA at night.

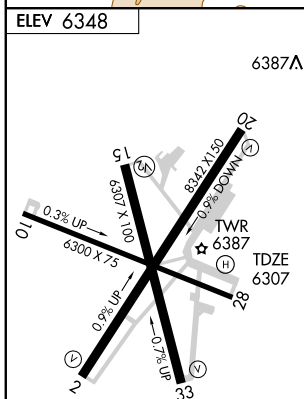
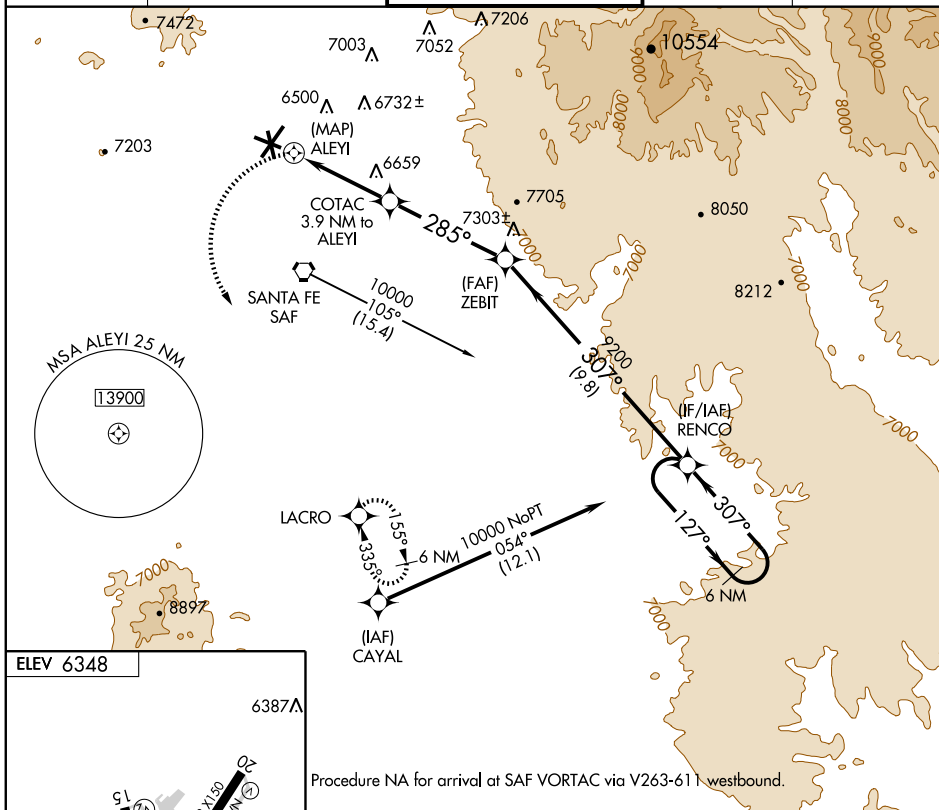
MISSED APPROACH: Climbing left turn to 9000 direct LACRO WP and hold.

ATIS
128.55

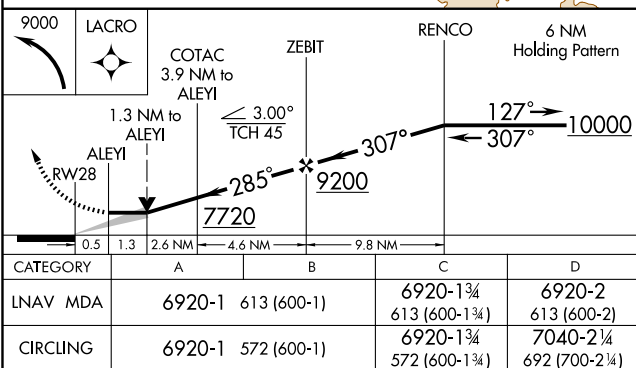
ALBUQUERQUE CENTER
132.8 346.35

SANTA FE TOWER ★
119.5 (CTAF) **L** 239.3

GND CON
121.7

UNICOM
122.95

Procedure NA for arrival at SAF VORTAC via V263-611 westbound.



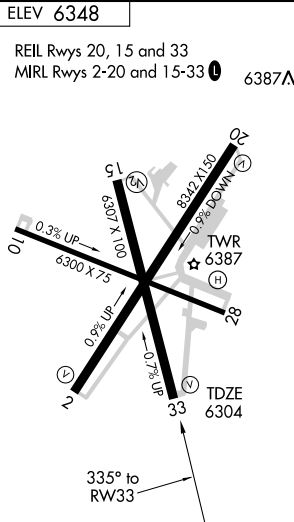
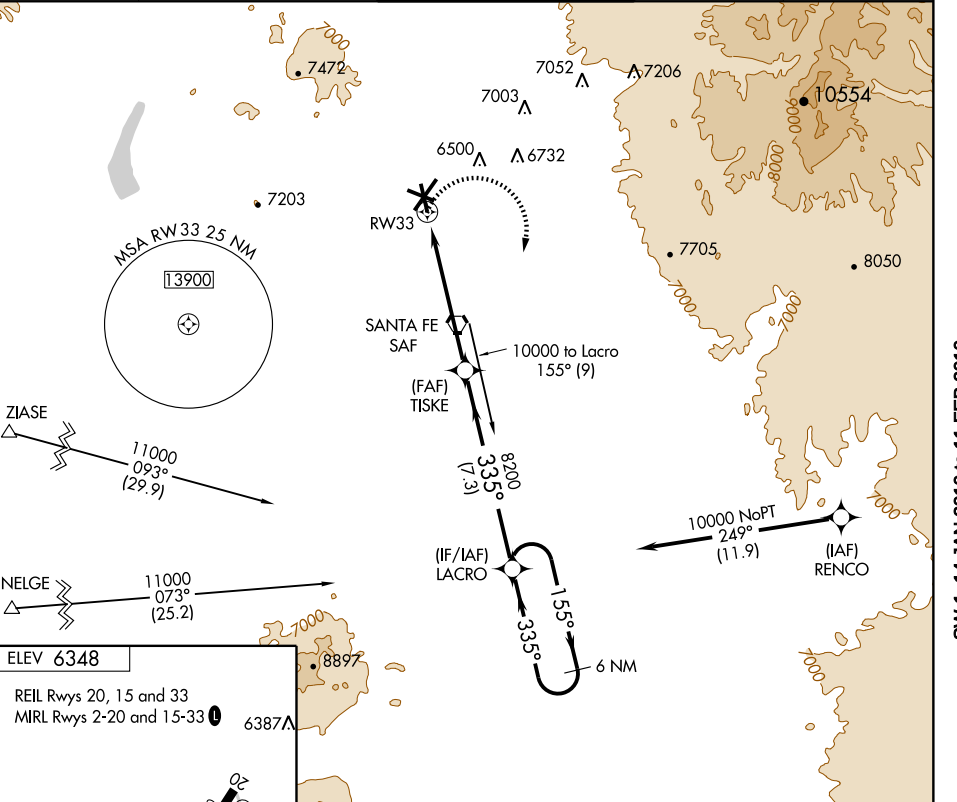
SW-1: 14 JAN 2010 to 11 FEB 2010

REIL Rwy 20, 15 and 33
MIRI Rwy 2-20 and 15-33 **L**

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

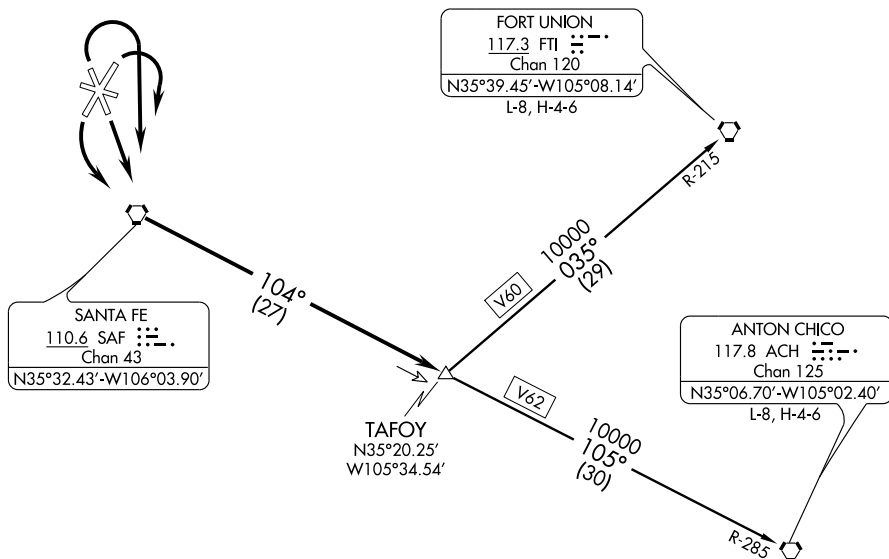
MISSED APPROACH: Climbing right turn to 10000 direct LACRO WP and hold.

ATIS 128.55	ALBUQUERQUE CENTER 132.8 346.35	SANTA FE TOWER ★ 119.5 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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10000	LACRO	6 NM Holding Pattern			

ATIS 128.55
GND CON
121.7
SANTA FE TOWER★
119.5 (CTAF) 239.3
ALBUQUERQUE CENTER
132.8 346.35



CAUTION: Mountainous terrain all quadrants.

NOTE: Takeoff runways 2, 33: Cat. A, B standard;
Cat. C, D requires a minimum climb of 330'/NM until
passing 9800' or a 2900' ceiling and 3 miles visibility.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb direct to....

TAKE-OFF RUNWAY 20: Climbing left turn direct to....

TAKE-OFF RUNWAYS 2 & 33: Climbing right turn direct to....

....the SAF VORTAC. Proceed via the SAF R-104 to TAFOY INT, climb and maintain 10000 MSL. Thence via assigned (transition) or (route).

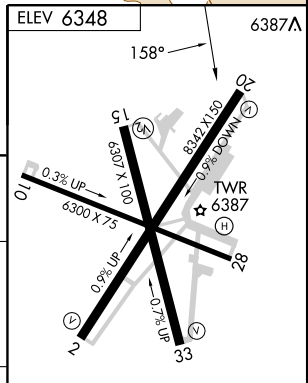
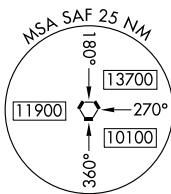
ANTON CHICO TRANSITION (TAFOY2.ACH): From over TAFOY INT, via V62/ACH R-285 to ACH VORTAC. Thence via (assigned) route.

FORT UNION TRANSITION (TAFOY2.FTI): From over TAFOY INT via V60/FTI R-215 to FTI VORTAC. Thence via (assigned) route.

VOR/DME-A
SANTA FE MUNI (SAF)

MISSED APPROACH: Climb to 9000 direct SAF VORTAC and hold, continue climb-in-hold to 9000.

SANTA FE TOWER ★
119.5 (CTAF) **L** 239.3



REIL Rwys 20, 15 and 33
MIRL Rwys 2-20 and 15-33 **L**

...right turn to 9000 direct
...climb-in-hold to 9000.

T When Control Tower closed, except for operators with approved weather reporting service, use Albuquerque altimeter setting.

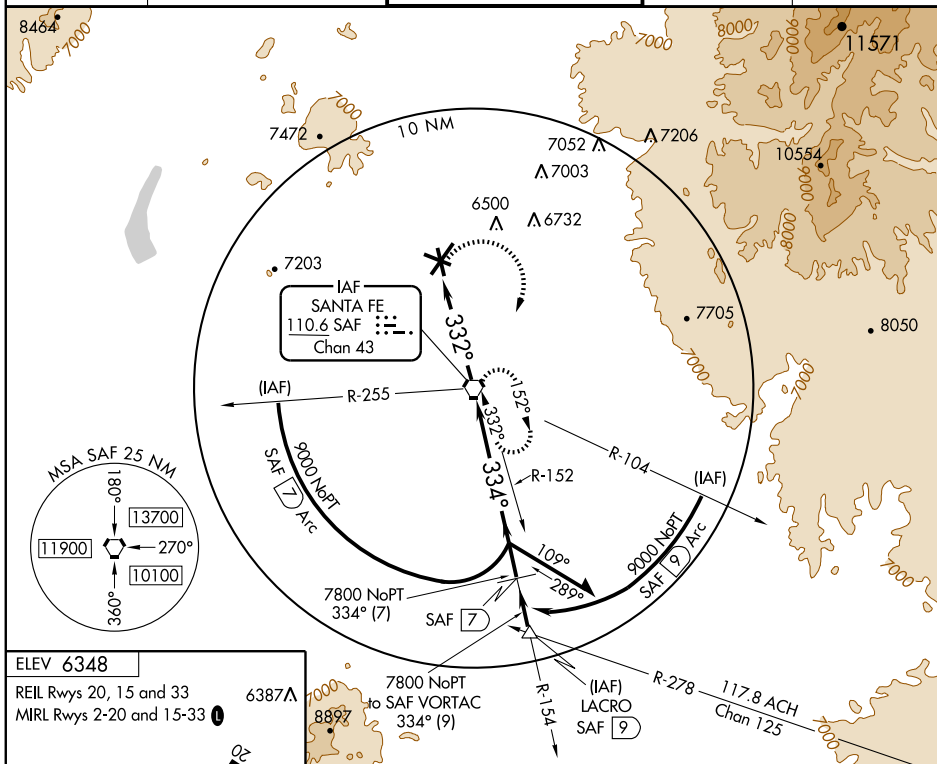
MISSED APPROACH: Climbing right turn to 9000 direct SAF VORTAC and hold, continue climb-in-hold to 9000.

ATIS
128.55

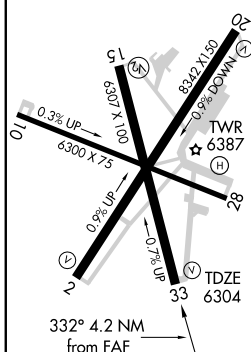
ALBUQUERQUE CENTER
132.8 346.35

SANTA FE TOWER ★
119.5 (CTAF) **L** 239.3

GND CON
121.7

UNICOM
122.95

ELEV 6348	
REIL Rwy 20, 15 and 33	6387A
MIRL Rwy 2-20 and 15-33	



FAF to MAP 4.2 NM

Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24

9000

SAF

110.6

VORTAC

154°

Remain within 10 NM

8200

334°

7800

≤ 3.33°

TCH 62

332°

VGS1 and descent angles not coincident.

4.2 NM

CATEGORY	A	B	C	D
S-33	6720-1	416 (400-1)	6720-1¼	416 (400-1¼)
CIRCLING	6840-1 492 (500-1)	6860-1 512 (600-1)	6860-1½ 512 (600-1½)	7020-2¼ 672 (700-2¼)

ALBUQUERQUE ALTIMETER SETTING MINIMUMS

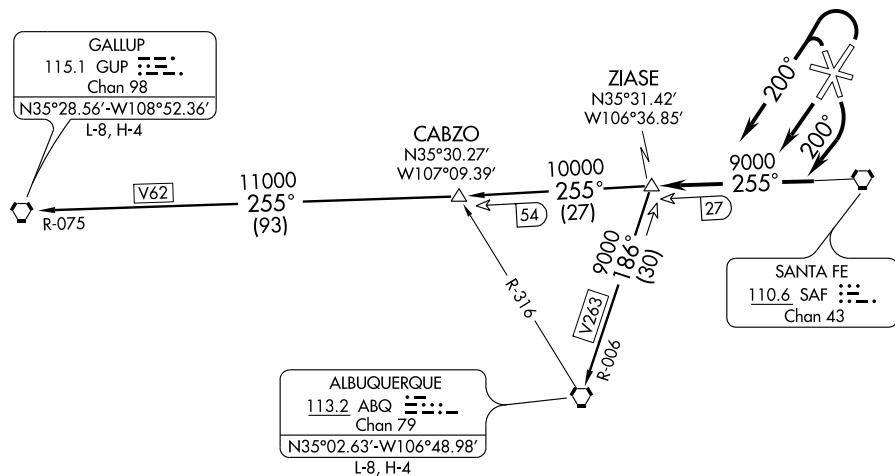
S-33	7620-1¼ 1316 (1300-1¼)	7620-1½ 1316 (1300-1½)	7620-3 1316 (1300-3)
CIRCLING	NA		

ZIAS2 TWO DEPARTURE

SL-548 (FAA)

SANTA FE MUNI (SAF)
SANTA FE, NEW MEXICO

ATIS 128.55
GND CON
121.7
SANTA FE TOWER★
119.5 (CTAF) 239.3
ALBUQUERQUE CENTER
132.8 346.35



CAUTION: Mountainous terrain all quadrants.

NOTE: Takeoff runways 2 and 33 requires a minimum climb of 280' per NM until passing 7900, or 1300' ceiling and 3 miles visibility.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2 & 33: Climbing left turn to heading 200° to....

TAKE-OFF RUNWAY 15: Climbing right turn to heading 200° to....

TAKE-OFF RUNWAY 20: Climb on runway heading to....

....intercept and proceed via SAF R-255 to ZIAS2 INT. Climb and maintain 9000' MSL. Thence via assigned (transition) or (route).

ALBUQUERQUE TRANSITION (ZIAS2.ABQ): From over ZIAS2 INT via V263/ABQ R-006 to ABQ VORTAC. Thence via (assigned route).

GALLUP TRANSITION (ZIAS2.GUP): From over ZIAS2 INT via V62/SAF R-255 and GUP R-075 to GUP VORTAC. Thence via (assigned route).

APP CRS	Rwy Idg	8500
101°	TDZE	4111
	Apt Elev	4112

RNAV (GPS) RWY 10

SANTA TERESA/ DONA ANA COUNTY AT SANTA TERESA (5T6)



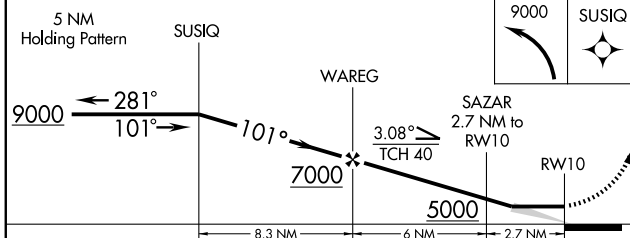
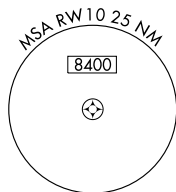
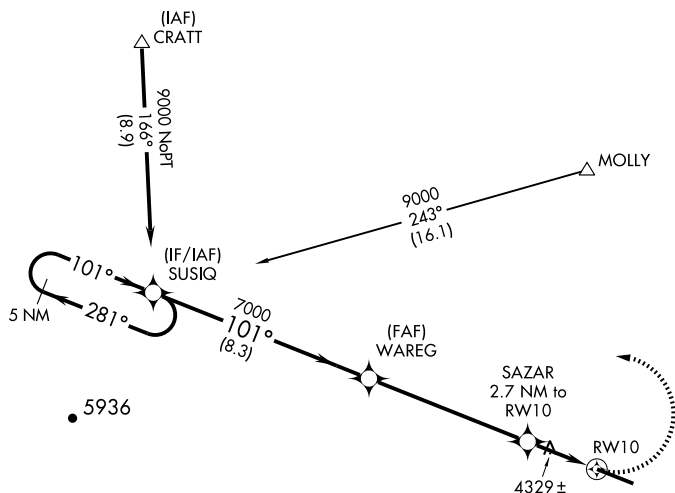
DME/DME RNP-0.3 NA.

Use El Paso Intl altimeter setting; if not received, procedure NA.

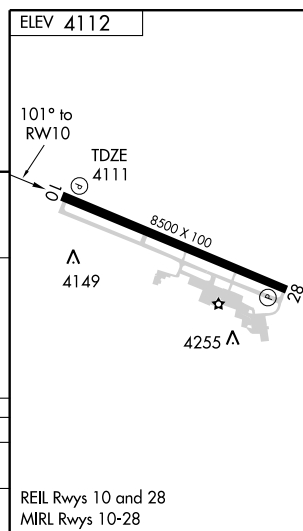
MISSED APPROACH: Climbing left turn to 9000 direct
SUSIQ and hold.

ALBUQUERQUE CENTER
128.2 285.5

UNICOM
122.725 (CTAF)



CATEGORY	A	B	C	D
LNAV MDA	4700-1	589 (600-1)	4700-1½ 589 (600-1½)	4700-1¾ 589 (600-1¾)
CIRCLING	4700-1	588 (600-1)	4700-1½ 588 (600-1½)	4700-2 588 (600-2)



LOC/DME I-SVC

111.7

Chan 54

APP CRS

258°

Rwy Idg

6802

TDZE

5380

Apt Elev

5446

▼

NA

If local altimeter setting not received, procedure NA.

MALS

—|—|—|

—|—|—|

24

MISSED APPROACH: Climb to 5800, then climbing left turn to 10000 via heading 190° and SVC VORTAC R-193 to KUNRE INT/SVC VORTAC 24.1 DME and hold.

AWOS-3

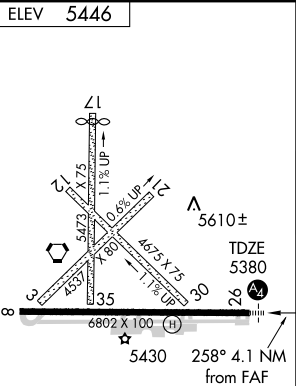
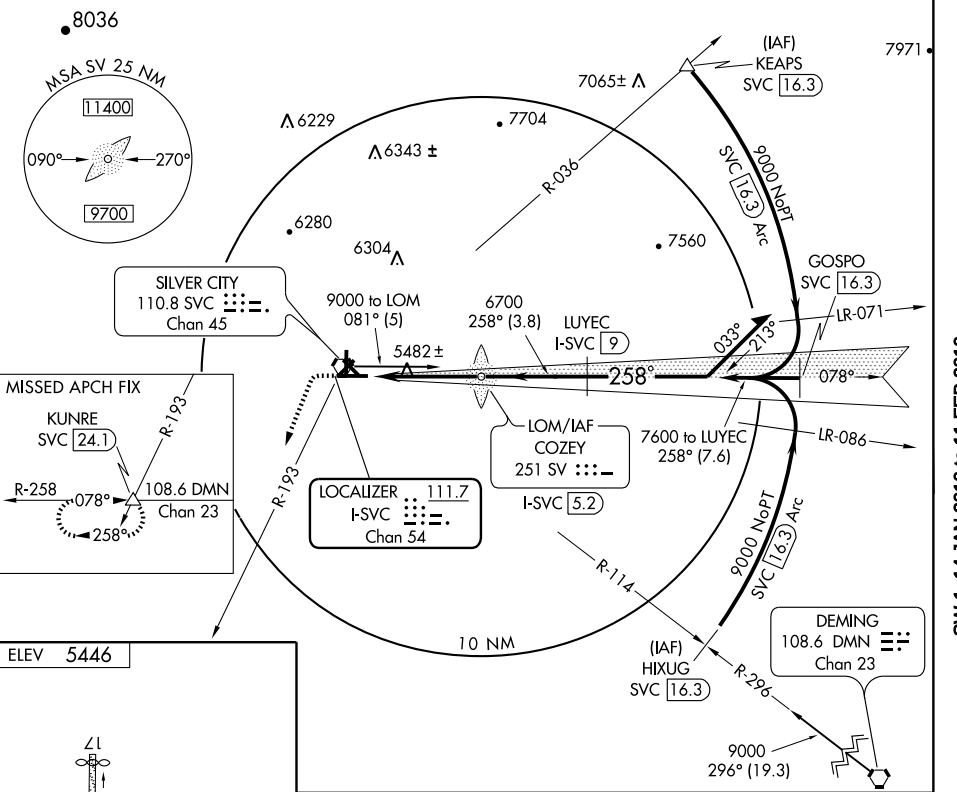
126.725

ALBUQUERQUE CENTER

134.45 327.15

UNICOM

122.8 (CTAF) 1



5800	10000	SVC R-193 110.8	KUNRE Δ	COZEY LOM I-SVC 5.2	Remain within 11 NM
Use I-SVC DME when on localizer course.					
I-SVC 1.2	I-SVC 2.2	≤ 2.96° TCH 52	6700	LUYEC I-SVC 9	8800
1 NM	3.1 NM	3.8 NM			
CATEGORY	A	B	C	D	
S-26	5740-3/4 360 (300-3/4)				5740-1 1/4 360 (300-1 1/4)
CIRCLING	5920-1 474 (500-1)	5940-1 494 (500-1)	5960-1 1/2 514 (600-1 1/2)	6020-2 574 (600-2)	

REIL Rwy 8

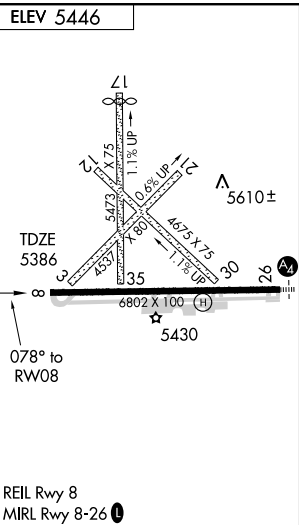
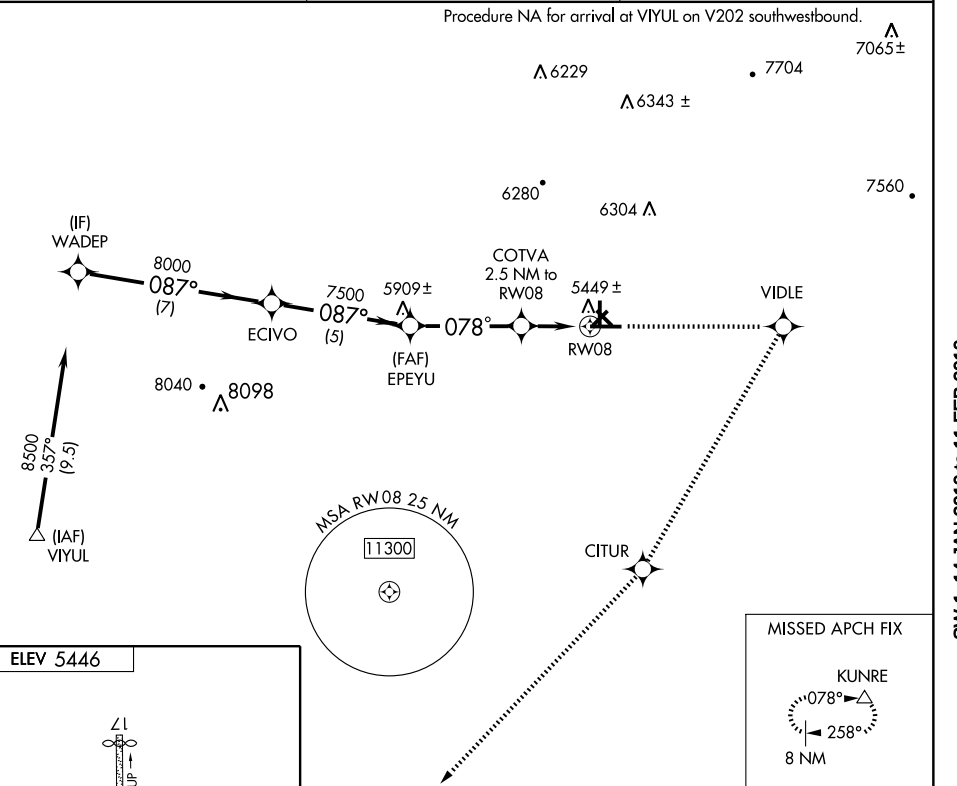
MIRL Rwy 8-26 1

▼

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, procedure NA.
Circling Rwy 3 NA at night.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 direct VIDLE and right turn via 198° track to CITUR and via 212° track to KUNRE and hold.

AWOS-3 126.725	ALBUQUERQUE CENTER 134.45 327.15	UNICOM 122.8 (CTAF) 0
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WAAS CH 87100 W26A	APP CRS 258°	Rwy Idg TDZE Apt Elev	6802 5380 5446
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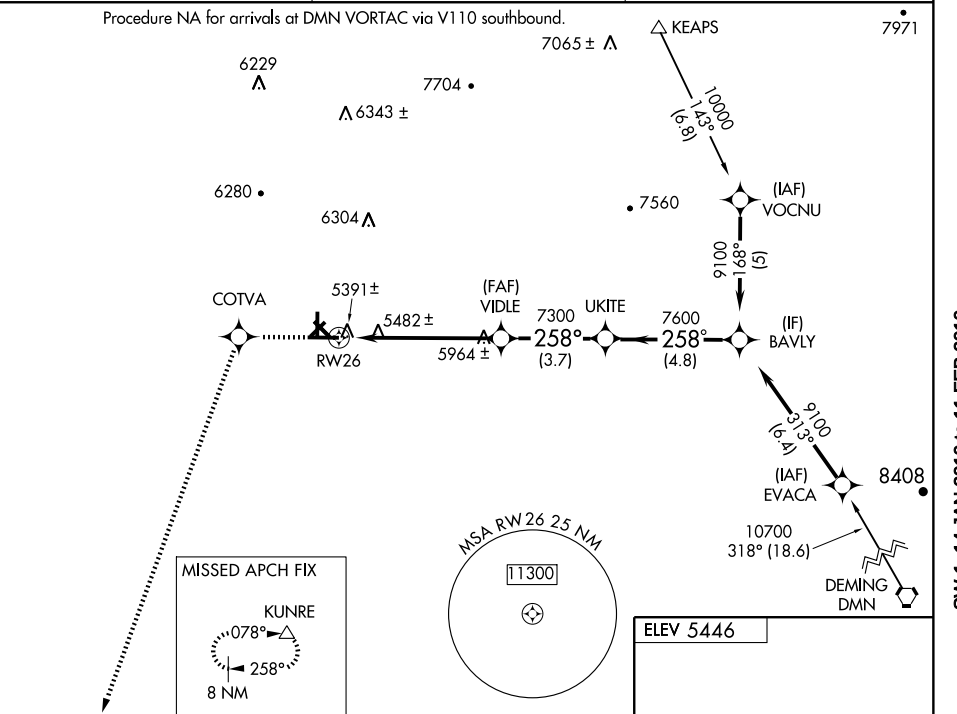
▼ DME/DME RNP -0.3 NA. Circling Rwy 3 NA at night.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (101°F).
If local altimeter setting not received, procedure NA.
Inoperative table does not apply to LPV and LNAV/VNAV.

MALS

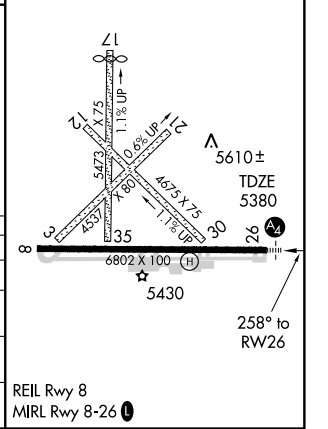


MISSED APPROACH: Climb to 10000
direct COTVA and via 188° track to
KUNRE and hold.

AWOS-3 126.725	ALBUQUERQUE CENTER 134.45 327.15	UNICOM 122.8 (CTAF) 
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10000	COTVA	188° track	KUNRE	UKITE	BAVLY
					
*LNAV only	*1 NM to RW26	VIDLE	UKITE	BAVLY	Procedure Turn NA GS 3.00° TCH 52
					
1 NM	4.8 NM	3.7 NM	4.8 NM		
CATEGORY	A	B	C	D	
LPV DA	5630-3/4	250 (200-3/4)			
LNAV/VNAV DA	5789-1 1/2	409 (400-1 1/2)			
LNAV MDA	5740-3/4	360 (300-3/4)		5740-1 1/4 360 (300-1 1/4)	
CIRCLING	5880-1 1/2 434 (500-1 1/2)	5900-1 1/2 454 (500-1 1/2)	5940-1 1/2 494 (500-1 1/2)	6000-2 554 (600-2)	



SW-1. 14 JAN 2010 to 11 FEB 2010

AL-793 (FAA)

VORTAC SVC 110.8 Chan 45	APP CRS 308°	Rwy Idg TDZE Apt Elev 5446	N/A N/A
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VOR-A

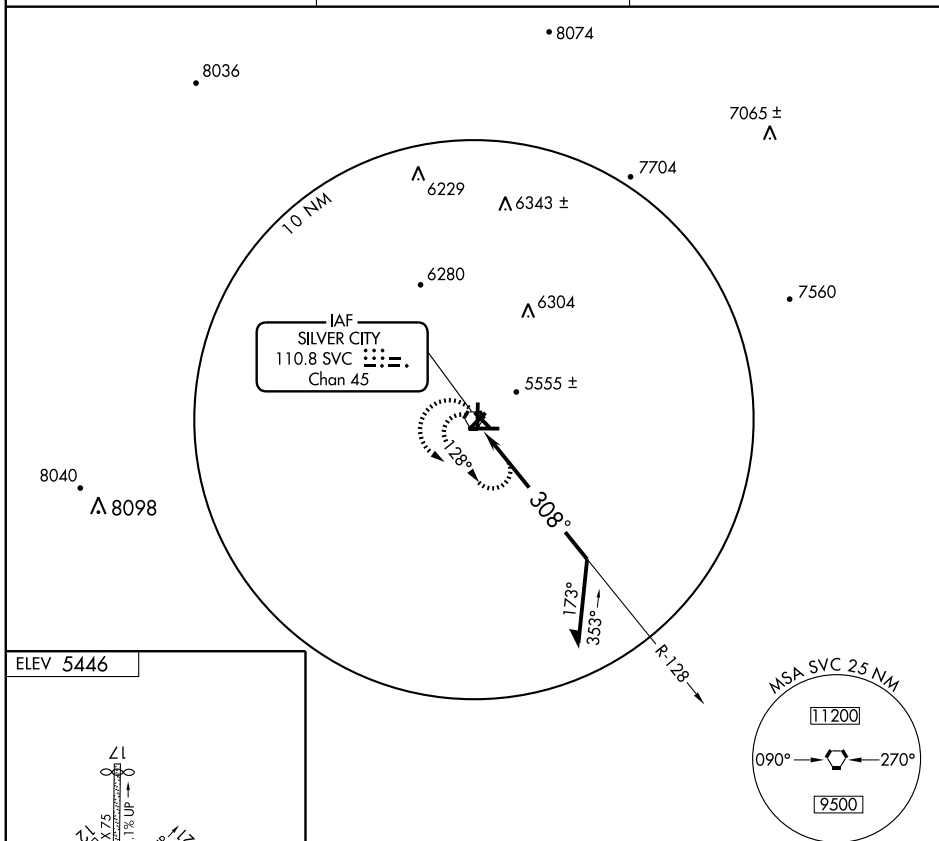
SILVER CITY/GRANT COUNTY (SVC)

T When local altimeter setting not received, procedure not authorized.

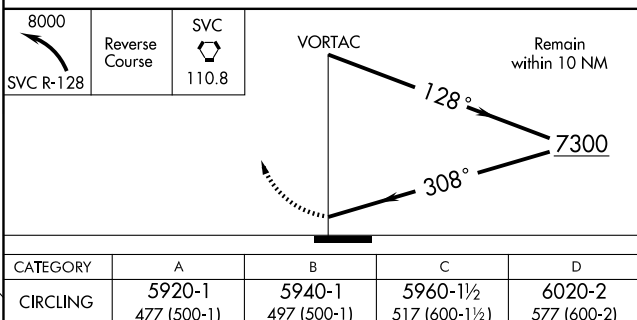
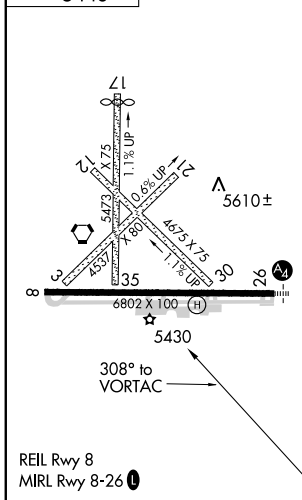
MISSED APPROACH: Climbing left turn to 8000 via SVC R-128, then reverse course to SVC VORTAC and hold.

AWOS-3
126.725

ALBUQUERQUE CENTER
134.45 327.15

UNICOM
122.8 (CTAF) **L**

ELEV 5446



SW-1: 14 JAN 2010 to 11 FEB 2010

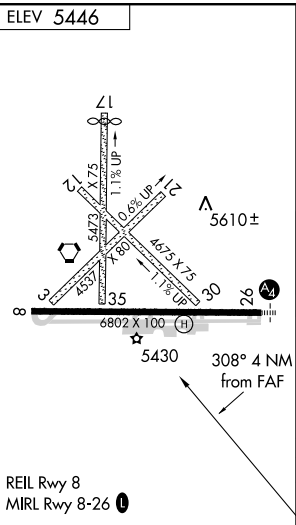
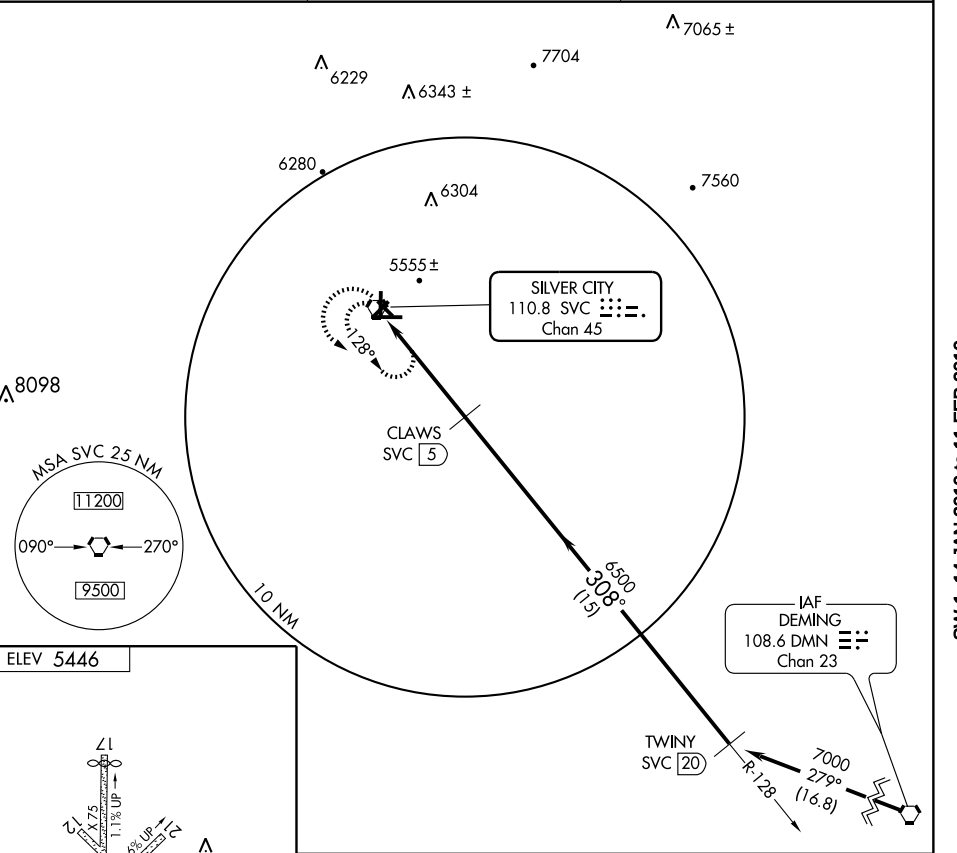
▼

▲

When local altimeter setting not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 8000 via SVC R-128 then reverse course to SVC VORTAC and hold.

AWOS-3 126.725	ALBUQUERQUE CENTER 134.45 327.15	UNICOM 122.8 (CTAF) 0
-------------------	-------------------------------------	--------------------------



8000  SVC R-128		Reverse Course  110.8	SVC TWINY SVC 20	
VORTAC  SVC 1		CLAWS SVC 5  6500	308° 7000	Procedure Turn NA
4 NM		15 NM		
CATEGORY	A	B	C	D
CIRCLING	5920-1 477 (500-1)	5940-1 497 (500-1)	5960-1½ 517 (600-1½)	6020-2 577 (600-2)

SW-1. 14 JAN 2010 to 11 FEB 2010

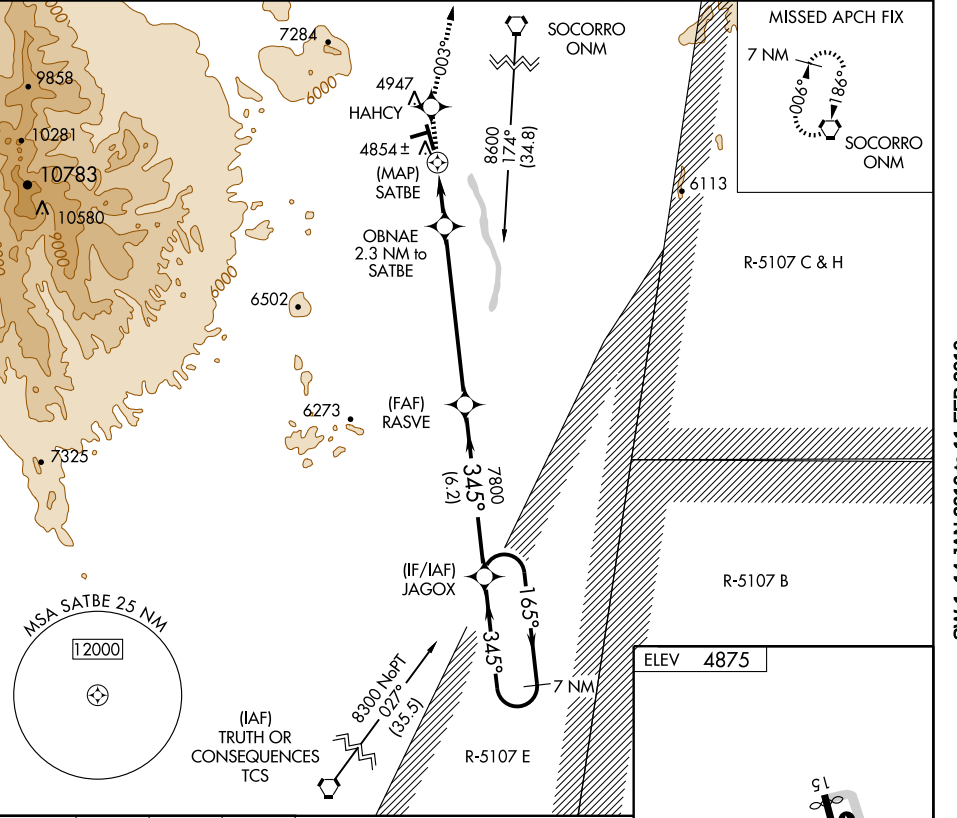
▼

NA

Circling NA west of Rwy 15-33. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Procedure NA when R-5107E active. Obtain local altimeter setting on CTAF; when not received, procedure NA.

MISSED APPROACH: Climb to 8000 direct HAHCY and via track 003° to ONM VORTAC and hold.

AWOS-3 118.325	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 0
-------------------	--------------------------------------	--------------------------



8000

HAHCY

trk 003°

ONM

RASVE

OBNAE 2.3 NM to SATBE

SATBE

5700

7800

345°

165°

8300

JAGOX

7 NM Holding Pattern

VGSI and descent angles not coincident.

0.5

2.3 NM

6.4 NM

6.2 NM

CATEGORY	A	B	C	D
LNAV MDA	5260-1	478 (500-1)	5260-1½ 478 (500-1½)	NA
CIRCLING	5260-1 385 (400-1)	5340-1 465 (500-1)	5340-1½ 465 (500-1½)	NA

MISSED APCH FIX

7 NM

006°

86°

SOCORRO ONM

R-5107 C & H

R-5107 B

R-5107 E

ELEV 4875

51

24

4590 X 60

5841 X 100

001 X 60

TDZE 4782

33

MIRL Rwy 15-33 and 6-24 0

SW-1, 14 JAN 2010 to 11 FEB 2010

WAAS CH 49114 W33A	APP CRS 335°	Rwy Idg TDZE Apt Elev	5659 4782 4875
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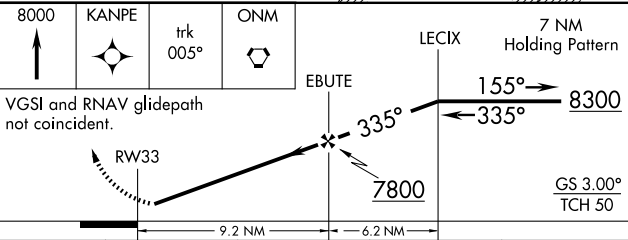
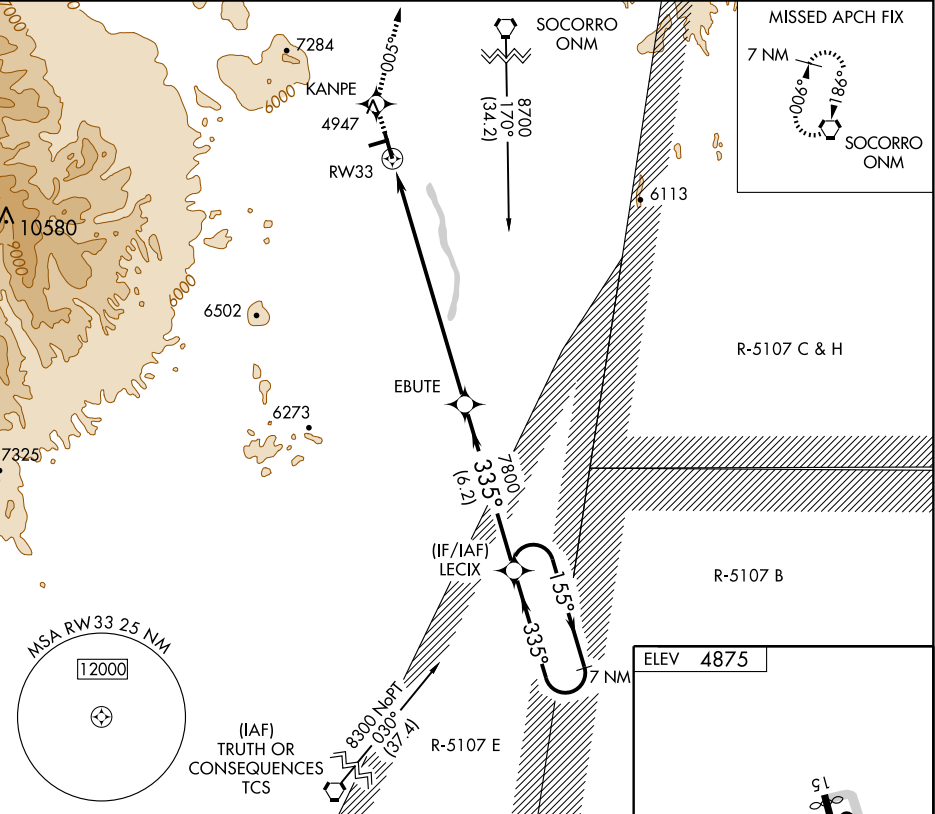
RNAV (GPS) Z RWY 33

SOCORRO MUNI (ONM)

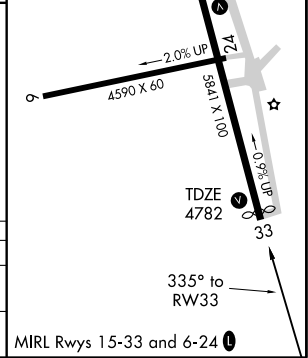
⚠ Circling NA west of Rwy 15-33. DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. Circling requires descent on GS to CMDA. Procedure NA when R-5107E active. Obtain local altimeter setting on CTAF; when not received, procedure NA.

MISSED APPROACH: Climb to 8000 direct KANPE and via track 005° to ONM VORTAC and hold.

AWOS-3 118.325	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	5032-1	250 (300-1)		NA
CIRCLING	5260-1 385 (400-1)	5340-1 465 (500-1)	5340-1½ 465 (500-1½)	NA



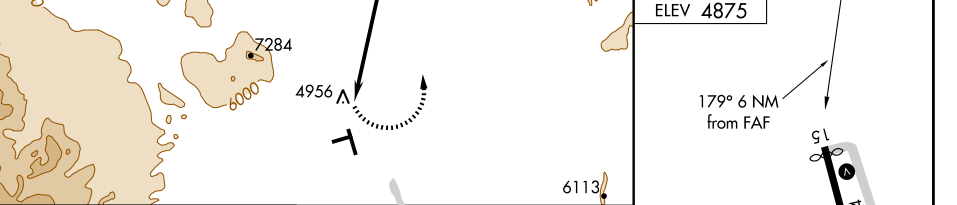
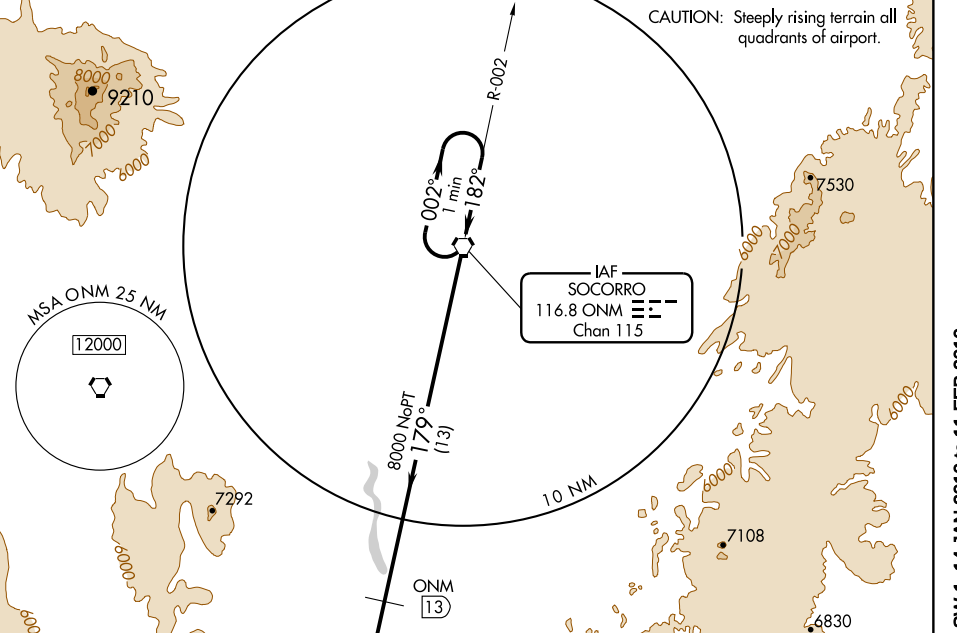
When local altimeter not available, procedure not authorized.

⚠️ Circling not authorized west of Rwy 15-33.

If arrival over Socorro VOR is above 8000 descend in the holding pattern to 8000 before commencing approach.

MISSED APPROACH: Climbing left turn to 8000 intercept ONM R-179 direct to ONM VORTAC and hold.

AWOS-3 118.325	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 0
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8000	ONM R-179 116.8	ONM 116.8	ONM 13	VORTAC	One Minute Holding Pattern
ONM 18	ONM 13	ONM 13	ONM 13	ONM 13	ONM 13
1 NM	5 NM	13 NM	13 NM	13 NM	13 NM
CATEGORY	A	B	C	D	
CIRCLING	6540-1¼ 1665 (1700-1¼)	6540-1½ 1665 (1700-1½)	6540-3 1665 (1700-3)	NA	

MRL Rwy 15-33 and 6-24 0

AL-5863 (FAA)

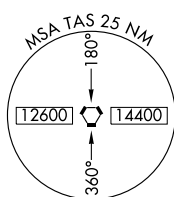
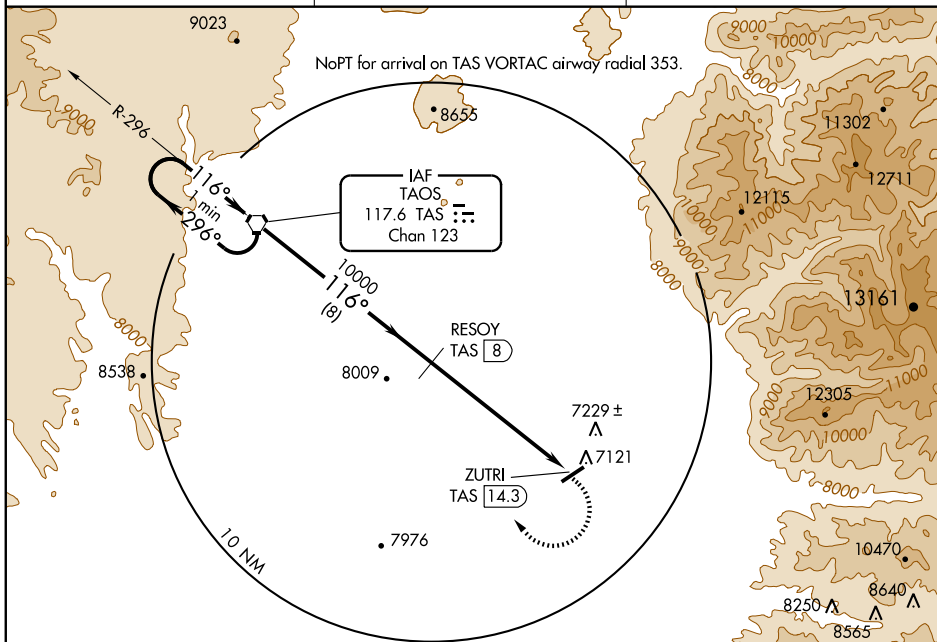
VOR/DME-B
TAOS RGNL (SKX)

T
A

MISSED APPROACH: Climbing right turn to 12000
direct TAS VORTAC and hold.

AWOS-3
132.975

ALBUQUERQUE RADIO
122.1R

UNICOM
122.8 (CTAF) **L**

One Minute Holding Pattern

VORTAC

1 2000

VGSI and descent
angles not coincident.

RESOY
TAS 8

TAS 1

ELEV 7091

116° 6.3 NM
from FAF

MIRL Rwy 4-22 **L**

CATEGORY	A	B	C	D						
CIRCLING	8000-1¼ 909 (1000-1¼)		8000-2¾ 909 (1000-2¾)	8000-3 909 (1000-3)	Knots	60	90	120	150	180
					Min:Sec					

APP CRS
007°

Rwy Idg	TDZE	Apt Elev
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
49	100	100
50	100	100
51	100	100
52	100	100
53	100	100
54	100	100
55	100	100
56	100	100
57	100	100
58	100	100
59	100	100
60	100	100
61	100	100
62	100	100
63	100	100
64	100	100
65	100	100
66	100	100
67	100	100
68	100	100
69	100	100
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73	100	100
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80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

N/A
N/A
4850

RNAV (GPS)-A

TRUTH OR CONSEQUENCES MUNI (TCS)



GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

ANA

DUCAS transition NA when R-5111 A-D active.

MISSED APPROACH: Climbing left turn to 9000 direct LAYEN WP and hold.

ASOS
120.675

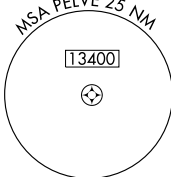
ALBUQUERQUE CENTER
128.2 285.5

UN|COM
122.8 (CTAF) **L**

NoPT for arrivals at LAYEN on V110 northbound.

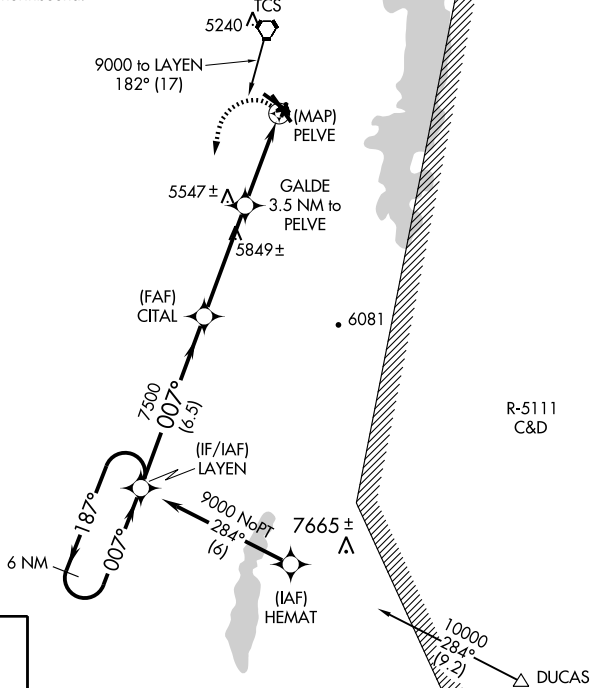
TRUTH OR CONSEQUENCES

6223



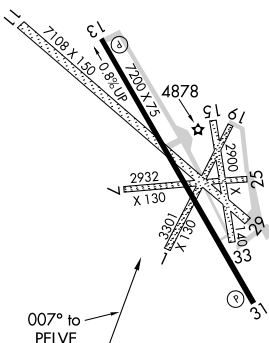
6543

(IAF)
KAPEY 9000 NoPT
△ 080°
(13.7)



R-5111
C&D

ELEV 4850

007° to
PFLVEMIRL Rwy 13-31 **L**6 NM
Holding Pattern

LAYEN

CITAL

GALD
3.5 NA

3.5 NA



LAYEN



CATEGORY

280-1

430 (500-1)

5300-1

450 (500-

5340-1½

490 (500-1½)

5400-2

550 (600-2

VORTAC TCS <u>112.7</u> Chan 74	APP CRS 162°	Rwy Idg TDZE Apt Elev	N/A N/A 4853
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VOR-A

TRUTH OR CONSEQUENCES MUNI (TCS)

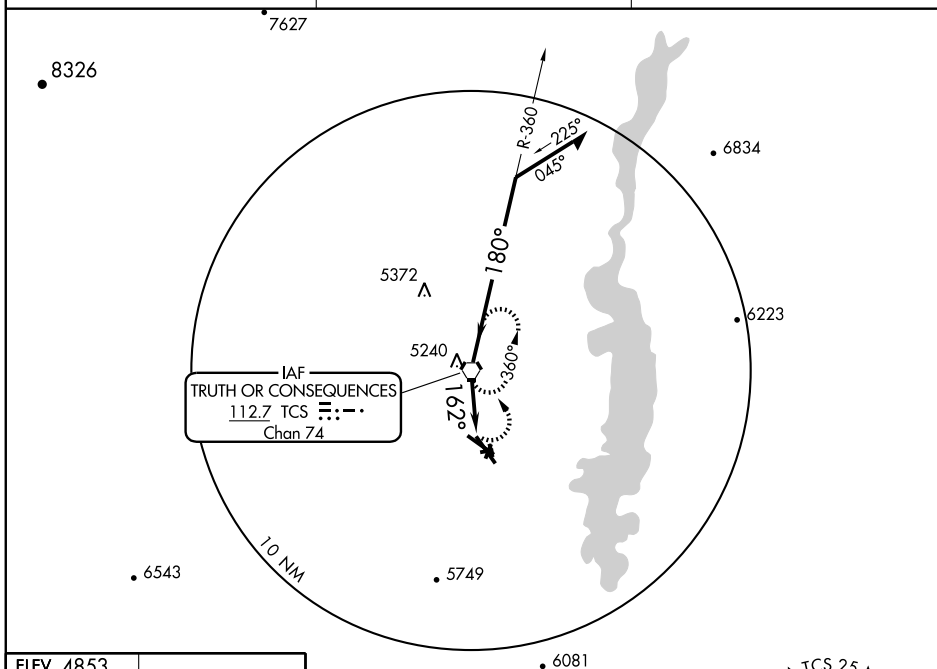


MISSED APPROACH: Climbing left turn direct to TCS VORTAC. Climb to 8000 in holding pattern.

ASOS
120.675

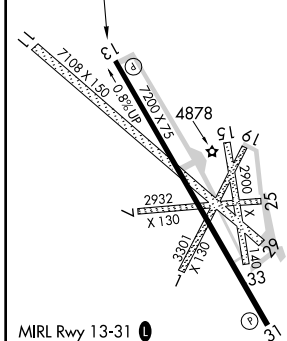
ALBUQUERQUE CENTER
128.2 285.5

UNICOM
122.8 (CTAF) **L**

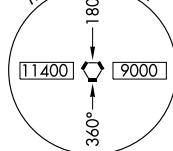


ELEV 4853

162° 2.4 NM
from FAF

MIRL Rwy 13-31 **L**

MSA TCS 25 NM



TCS

1127

VORTAC

Remain
within 10 NM

TC

2.4)

CATEGORY

A	B
---	---

C

5560-2

D

5560-214

Knots	60	90	120	150	180
-------	----	----	-----	-----	-----

Min:Sec	2:24	1:36	1:12	0:58	0:48
---------	------	------	------	------	------

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct CESRU and hold.

ASOS 119.275	ALBUQUERQUE CENTER 126.85 285.6	UNICOM 122.95 (CTAF) 0
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The diagram illustrates the RNAV (GPS) RWY 3 approach. It begins with a 6 NM holding pattern at 7000 feet, with inbound and outbound legs at 213° and 033° respectively. The holding pattern is centered on TUCOB. From TUCOB, the approach proceeds to KESPE (FAF) at 6000 feet, then to NESNE (3.6 NM to RWY03), and finally to RWY03 (1 NM). The diagram also shows the MSA (Minimum Safe Altitude) for RWY03, which is 6800 feet within a 25 NM radius. The final approach segment is at 5220 feet, with a 3.00° glide path to the runway. The runway is 7102 x 100 feet, and the TDZE is 4043 feet. The elevation of the airport is 4065 feet.

6 NM Holding Pattern					6000 CESRU					
7000 ← 213° 033° → 033°					NESNE 3.6 NM to RWY03					
TUCOB					1 NM to RWY03					
KESPE					RWY03					
3.00° TCH 50					5220					
6 NM 2.4 NM 2.6 NM 1 NM					TDZE 4043					
CATEGORY	A		B		D					
LNAV MDA	4420-1		377 (400-1)		4420-1¼ 377 (400-1¼)					
CIRCLING	4580-1		515 (600-1)		4580-1½ 515 (600-1½)					
					4620-2 555 (600-2)					
MIRL Rwy 3-21 and 8-26 0										

SW-1, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	7102
213°	TDZE	4047
	Apt Elev	4065

RNAV (GPS) RWY 21
TUCUMCARI MUNI (TCC)

T GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling to Rwy 8 NA at night.
If local altimeter setting not received, procedure NA.

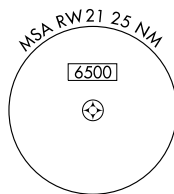
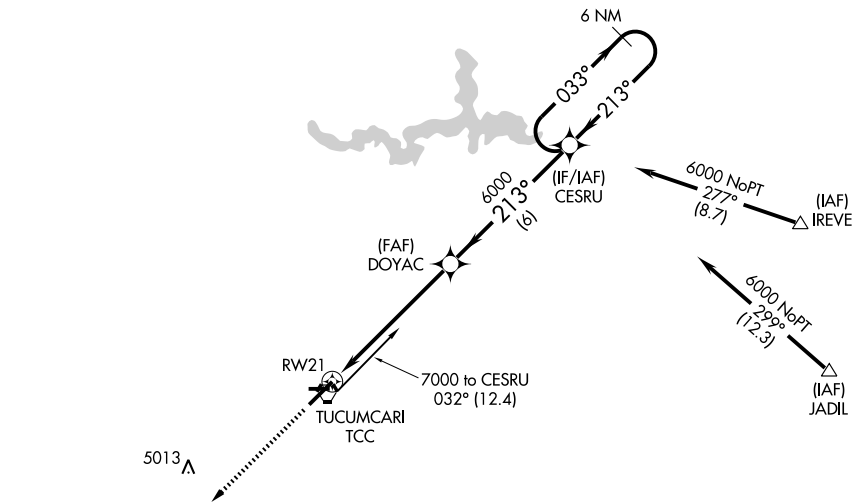
MISSED APPROACH: Climb to 7000 direct TUCOB and hold.

ASOS
119.275

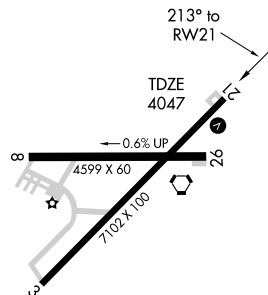
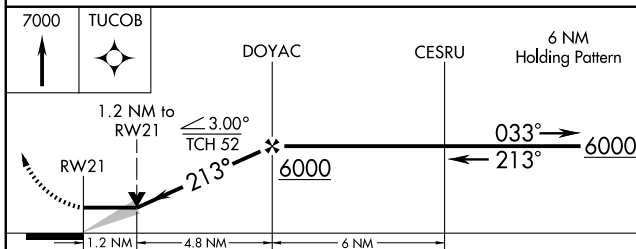
ALBUQUERQUE CENTER
126.85 285.6

UNICOM
122.95 (CTAF) **L**

Procedure NA for arrival at TCC VORTAC via V402 westbound.



ELEV 4065



CATEGORY	A	B	C	D
LNAV MDA	4480-1	433 (500-1)	4480-1¼ 433 (500-1¼)	4480-1½ 433 (500-1½)
CIRCLING	4580-1	515 (600-1)	4580-1½ 515 (600-1½)	4620-2 555 (600-2)

MIRL Rwy 3-21 and 8-26 **L**

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

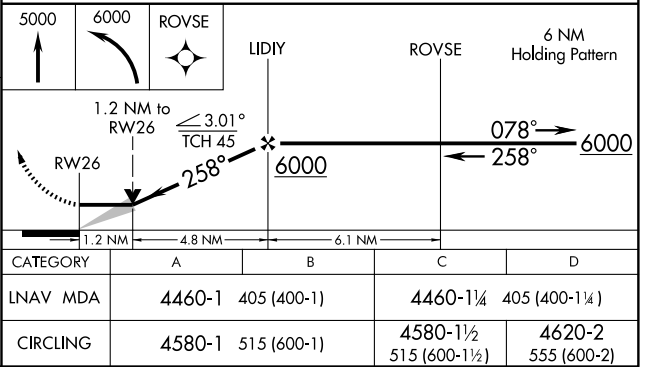
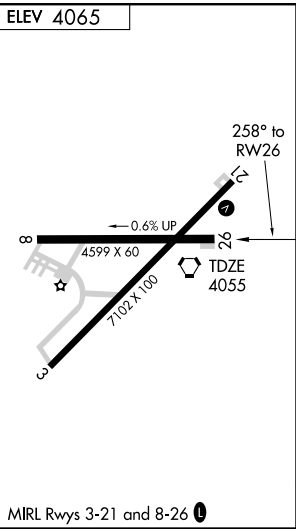
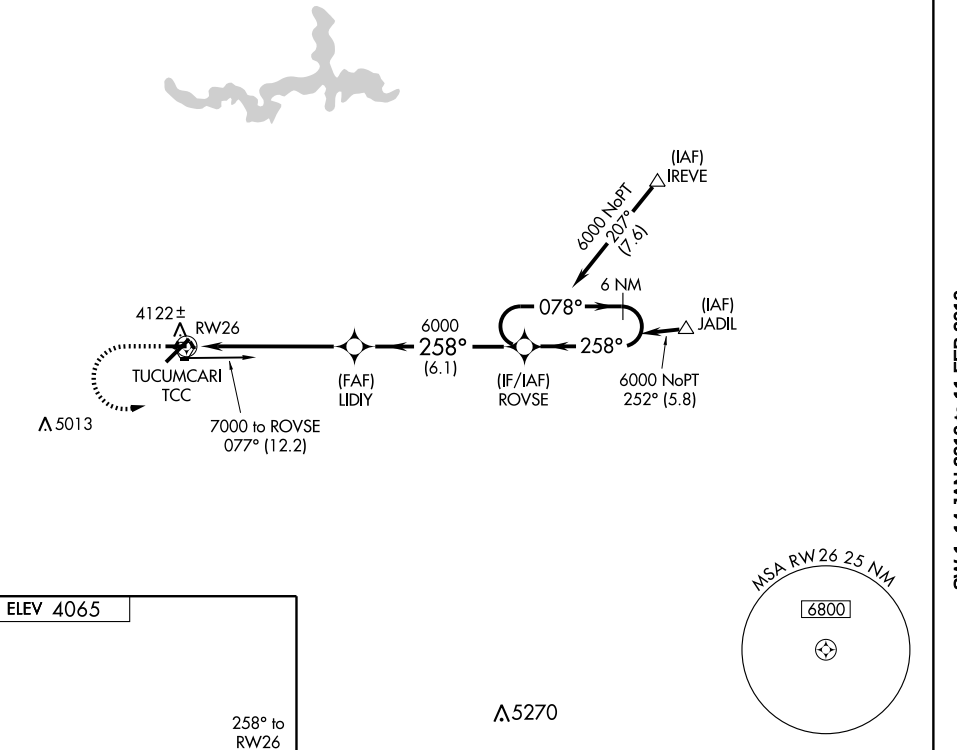
Circling to Rwy 8 NA at night.

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct ROVSE and hold.

ASOS 119.275	ALBUQUERQUE CENTER 126.85 285.6	UNICOM 122.95 (CTAF) 0
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Procedure NA for arrival at TCC VORTAC via V402 westbound.



VORTAC TCC <u>113.6</u> Chan 83	APP CRS 201°	Rwy Idg 7102 TDZE 4047 Apt Elev 4065
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VOR RWY 21
TUCUMCARI MUNI (TCC)

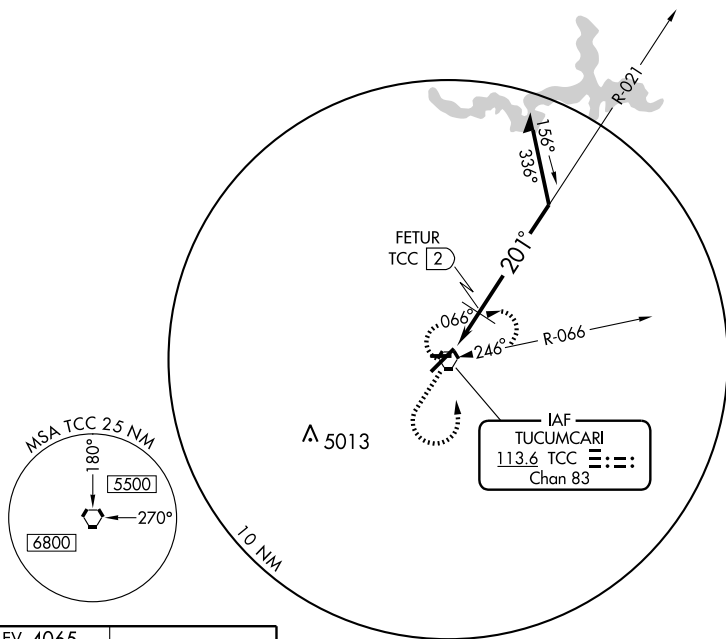
T If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 5100 then climbing left turn to 6100 direct TCC VORTAC and hold.

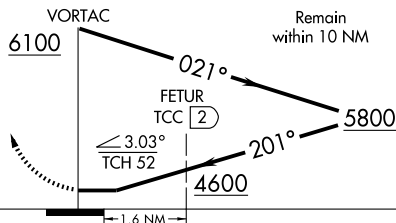
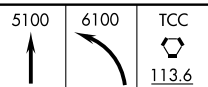
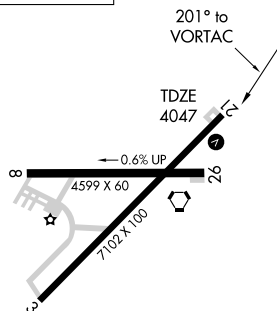
ASOS
119.275

ALBUQUERQUE CENTER
126.85 285.6

UNICOM
122.95 (CTAF) **L**



ELEV 4065



CATEGORY	A	B	C	D
S-21	4600-1	553 (600-1)	4600-1½ 553 (600-1½)	4600-1¾ 553 (600-1¾)
CIRCLING	4600-1	535 (600-1)	4600-1½ 535 (600-1½)	4620-2 555 (600-2)
FETUR FIX MINIMUMS				
S-21	4480-1	433 (500-1)	4480-1¼ 433 (500-1¼)	4480-1½ 433 (500-1½)
CIRCLING	4580-1	515 (600-1)	4580-1½ 515 (600-1½)	4620-2 555 (600-2)

MIRL Rwy 3-21 and 8-26 **L**

Knots	60	90	120	150	180
Min:Sec					

T

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 5100 then climbing right turn to 6100 direct TCC VORTAC and hold.

ASOS 119.275	ALBUQUERQUE CENTER 126.85 285.6	UNICOM 122.95 (CTAF) 0
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ELEV 4065

	5100	6100	TCC 113.6				
	↑	↻	⬢				
				VORTAC 6100			Remain within 10 NM
					066°		
						246°	5800
					TCC 1.1	CIGSA TCC 2	
					4600		
					1 NM	0.9	
CATEGORY	A	B	C	D			
S-26	4600-1	545 (600-1)	4600-1½ 545 (600-1½)	4600-1¾ 545 (600-1¾)			
CIRCLING	4600-1	535 (600-1)	4600-1½ 535 (600-1½)	4620-2 555 (600-2)			
CIGSA FIX MINIMUMS							
S-26	4400-1	345 (400-1)		4400-1¼ 345 (400-1¼)			
CIRCLING	4580-1	515 (600-1)	4580-1½ 515 (600-1½)	4620-2 555 (600-2)			

SW-1. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	4807
057°	TDZE	6454
	Apt Elev	6454

RNAV (GPS) RWY 6

ZUNI PUEBLO/BLACK ROCK (ZUN)

NA DME/DME RNP -0.3 NA.
Use Gallup, NM altimeter setting; if not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 9000 direct ZUN VORTAC and hold.

ALBUQUERQUE CENTER
124.325 288.25

UNICOM
122.8

CTAF
122.9

NoPT for arrival on ZUN VORTAC airway radial 261.

Λ 7448

• 7330

Λ 7300

Λ 7400

• 7222

(FAF) ZUNAL

RW06
Λ 6629 ±

• 7330

7739 Λ

(IF/IAF) ZUNI ZUN

8200
057°
(13.5)

6 NM

MSA RW06 25 NM

10400

ELEV 6454

6 NM
Holding Pattern

VORTAC

9000

ZUN

9000

237°
057°

057°

ZUNAL

8200

3.04°
TCH 40

RW06

13.5 NM 5.3 NM

Λ 6558

TDZE 6454

0.3% UP

4807 X 50

057° to RW06

CATEGORY	A	B	C	D
LNNAV MDA	7320-1 866 (900-1)	7320-1¼ 866 (900-1¼)	7320-2½ 866 (900-2½)	NA
CIRCLING	7860-1¼ 1406 (1500-1¼)	7880-1½ 1426 (1500-1½)	7880-3 1426 (1500-3)	NA

LIRL Rwy 6-24

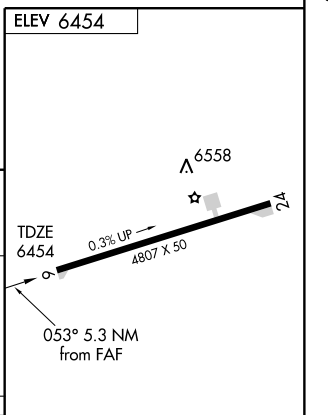
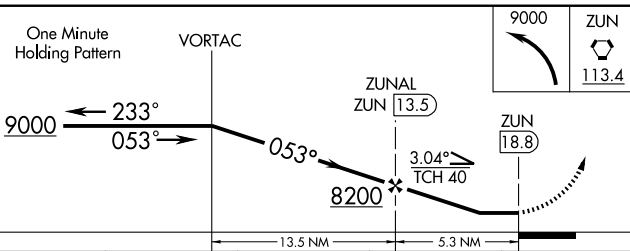
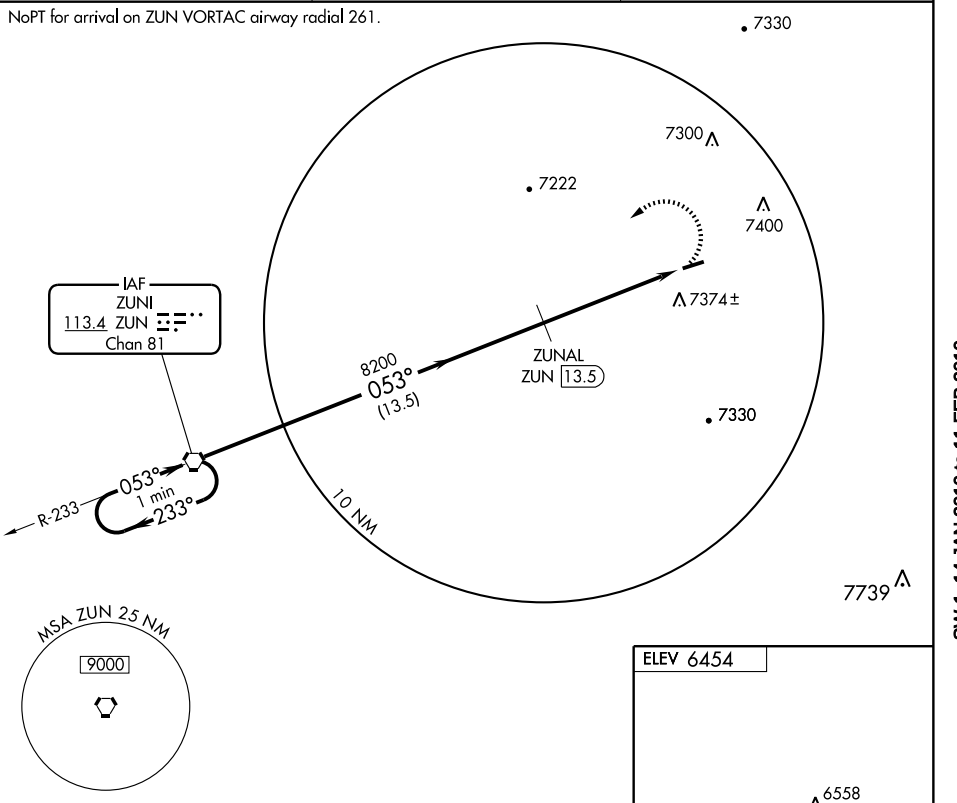
VORTAC ZUN	APP CRS	Rwy Idg	4807
113.4	053°	TDZE	6454
Chan 81		Apt Elev	6454

NA

Use Gallup, NM altimeter setting; if not received procedure not authorized.

MISSED APPROACH: Climbing left turn to 9000 direct ZUN VORTAC and hold.

ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8	CTAF 122.9
--------------------------------------	-----------------	---------------



CATEGORY	A	B	C	D
S-6	7820-1¼ 1366 (1400-1¼)	7820-1½ 1366 (1400-1½)	7820-3 1366 (1400-3)	NA
CIRCLING	7860-1¼ 1406 (1500-1¼)	7880-1½ 1426 (1500-1½)	7880-3 1426 (1500-3)	NA

LRL Rwy 6-24	Knots	60	90	120	150	180
	Min:Sec					

SW-1, 14 JAN 2010 to 11 FEB 2010

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD

INTL RNAV (GPS) Rwy 16¹²
 RNAV (GPS) Rwy 34³⁴
 VOR/DME Rwy 34¹⁵

¹NA when local weather not available.²Categories A, B, 1200-2; Categories C, D, 1200-3.³NA when control tower closed.⁴Categories A, B, 1100-2; Categories C, D, 1100-3.⁵Categories A, B, 2200-2; Categories C, D, 2200-3.**CARSON CITY, UT**

CARSON RNAV (GPS)-A
 Categories A, B, 1700-2; Category C, 1700-3;
 Category D, 1800-3.

NA when local weather not available.

CEDAR CITY, UT

CEDAR CITY RGNL ILS Rwy 20
 VOR Rwy 20

Category D, 900-2¾.

DOUGLAS BISBEE, AZ

BISBEE DOUGLAS

INTL VOR/DME or GPS Rwy 17
 VOR Rwy 17

NA when control zone not in effect.

ELKO, NV

ELKO RGNL LDA/DME RWY 23¹
 RNAV (GPS) Rwy 23²
 VOR-A³
 VOR/DME-B⁴

¹Categories A,B, 900-2; Category C 1000-3; Category D, 1100-3.²Categories A,B, 1400-2; Categories C,D, 1400-3.³Categories A,B, 1500-2; Categories C,D, 1500-3.⁴Categories A,B, 1200-2; Categories C,D, 1200-3.

NAME ALTERNATE MINIMUMS

FLAGSTAFF, AZ

FLAGSTAFF

PULLIAM ILS or LOC/DME Rwy 21¹²
 VOR or GPS-A³

¹NA when control tower closed.²ILS, Categories B,C,D, 700-2.³Category D, 800-2¾.**FORT HUACHUCA-SIERRA VISTA, AZ**

SIERRA VISTA MUNI-

LIBBY AAF ILS or LOC Rwy 26
 NDB Rwy 26
 RNAV (GPS) Rwy 8¹
 VOR Rwy 26

NA when control tower closed.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.**GLENDALE, AZ**

GLENDALE MUNI RNAV (GPS) Rwy 1
 NA when local weather not available.

GRAND CANYON, AZ

GRAND CANYON NATIONAL
 PARK ILS or LOC/DME Rwy 3
 NA when control tower closed.
 Category D, 700-2.

VALLE VOR/DME Rwy 19

NA except for operators with approved weather reporting service.

KANAB, UT

KANAB MUNI RNAV (GPS) Rwy 1
 Category B, 1100-2; Category C, 1400-3.

KINGMAN, AZ

KINGMAN RNAV (GPS) Rwy 3
 RNAV (GPS) Y Rwy 21
 VOR/DME Rwy 21

Category D, 800-2¾.

NAME ALTERNATE MINIMUMS
LAKE HAVASU CITY, AZ
LAKE HAVASU CITY **VOR/DME or GPS-A**
Categories A,B, 1000-2; Categories C,
1000-2½; Category D, 1000-3.

LAS VEGAS, NV
HENDERSON EXECUTIVE **RNAV (GPS)-B¹
VOR-C²**

NA when local weather not available.
¹Categories A,B, 1000-2; Category C,
1000-2½.
²Categories A, B, 2400-2; Category C, 2400-3.

MC CARRAN INTL **ILS or LOC Rwy 25L¹
ILS or LOC Rwy 25R¹
ILS or LOC/DME Rwy 1L²
RNAV (GPS) Rwy 1R³
RNAV (GPS) Rwy 19L^{4S}
RNAV (GPS) Rwy 19R^{4S}
VOR/DME -A²
VOR Rwy 25L/R³**

¹ILS, LOC, Categories A,B, 900-2; Category C,
900-2½, Category D, 900-2¾, Category E,
1400-3.

²ILS, LOC, Categories A,B, 900-2; Category C,
900-2½.

³Categories A,B, 900-2; Category C, 900-2½,
Category D, 900-2¾.

⁴Categories A,B, 900-2; Category C, 900-2¾;
Category D, 900-3.

⁵NA when local weather not available.

NORTH LAS VEGAS **ILS or LOC Rwy 12L**
NA when control tower closed.

LOVELOCK, NV
DERBY FIELD **VOR or GPS-C¹
VOR/DME or GPS-A²**

¹Categories A,B, 1900-2; Categories C,D,
1900-3.
²Categories A,B, 900-2; Category C, 900-2¾;
Category D, 900-3.

MILFORD, UT
MILFORD MUNI/BEN AND JUDY
BRISCOE FIELD **VOR or GPS-A**
Category D, 800-2½.

OGDEN, UT
OGDEN-HINCKLEY **ILS Or LOC Rwy 3¹²
RNAV (GPS) Y Rwy 3
RNAV (GPS) Z Rwy 3**

NA when local weather not available.
¹ILS, Category D, 700-2.
²NA when control tower closed.

NAME ALTERNATE MINIMUMS
PHOENIX, AZ
PHOENIX DEER VALLEY **RNAV (GPS)-B¹²
RNAV (GPS)-C³
RNAV (GPS) Rwy 7R⁴
RNAV (GPS) Rwy 25L¹⁴**

¹NA when local weather not available.

²Categories A,B, 1000-2; Category C,
1000-2¾.

³Categories A,B, 1000-2; Category C,
1000-2¾; Category D, 1100-3.

⁴Categories A,B, 1000-2; Category C,
1000-2¾; Category D, 1000-3.

PHOENIX-
MESAGATEWAY **ILS or LOC Rwy 30C¹²
RNAV (GPS) Rwy 30C¹
RNAV (GPS) Rwy 30L³
VOR or TACAN Rwy 30C¹**

¹NA when local weather not available.

²NA when control tower closed.

³Category E, 800-2½.

PHOENIX
SKY HARBOR INTL **ILS or LOC Rwy 7R¹
ILS or LOC Rwy 7L²
ILS or LOC Rwy 8³
ILS or LOC Rwy 25L²
ILS or LOC Rwy 26²
RNAV (GPS) Y Rwy 7R²
RNAV (GPS) Y Rwy 7L²
RNAV (GPS) Y Rwy 8⁴
RNAV (GPS) Y Rwy 25L²
RNAV (GPS) Y Rwy 25R²
RNAV (GPS) Y Rwy 26²**

¹ILS, Categories A,B,C, 700-2; Category D,
800-2½. LOC, Category D, 800-2½.

²Category D, 800-2½.

³ILS, Categories A,B, 800-2; Category C, 800-
2¾; Category D, 800-2½. LOC, Category C,
800-2¾; Category D, 800-2½.

⁴Category C, 800-2¾; Category D, 800-2½.

PRESCOTT, AZ
ERNEST A. LOVE FIELD .. **ILS/DME Rwy 21L¹²
RNAV (GPS) Rwy 21L⁴
VOR Rwy 12³**

¹NA when control tower closed.

²ILS, Category C, 700-2; Category D, 900-3.
LOC, Category D, 900-3.

³Category D, 900-3.

⁴Category D, 1000-3.

NAME PRICE, UT
CARBON COUNTY RGNL/
BUCK DAVIS FIELD **VOR/DME Rwy 36**
VOR Rwy 36¹

Category C, 900-2½; Category D, 1100-3.

¹Categories A, B, 2000-2; Categories C, D, 2000-3.

PROVO, UT

PROVO MUNI .. **ILS or LOC/DME Rwy 13**, 700-2
Na when control tower closed.

RENO, NV

RENO/TAHOE INTL **ILS Rwy 16R**, 2100-7¹
ILS or LOC/DME Rwy 34L²
LOC Rwy 16R³
LOC/DME BC Rwy 34L⁴
RNAV (GPS) X Rwy 34L⁵
RNAV (GPS) X Rwy 34R⁵
RNAV (GPS) Y Rwy 16L⁶
RNAV (GPS) Y Rwy 16R⁷
RNAV (GPS) Y Rwy 34L⁴
RNAV (GPS) Y Rwy 34R⁸
RNAV (RNP) Z Rwy 16R, 800-2½
VOR-D, 1600-3

¹LOC, NA.

²ILS, LOC, Categories A, B, 1000-2; Category C, 1000-2½.

³Categories A, B, 1600-2; Categories C, D, 1600-3; Category E, 2400-3.

⁴Categories A, B, 1000-2; Categories C, D, 1000-3.

⁵Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

⁶Categories A, B, 1400-2; Categories C, D, 1400-3.

⁷Categories A, B, 1800-2; Categories C, D, 1800-3.

⁸Categories A, B, 1000-2; Category C, 1000-2½.

ST. GEORGE, UT

ST. GEORGE MUNI **RNAV (GPS) Rwy 34¹**
VOR or GPS-B, 1300-2²
VOR-C, 1800-3²
VOR/DME Rwy 34²³

¹Categories A, B 1100-2½; Categories C, D, 1100-3.

²NA except for operators with approved weather reporting service.

³Category C, 800-2½; Category D, 1000-3.

ST. JOHNS, AZ

ST. JOHNS
INDUSTRIAL AIRPARK **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.

NAME SCOTTSDALE, AZ
SCOTTSDALE **RNAV (GPS)-D¹**
RNAV (GPS)-E¹
VOR or GPS-A²³
VOR or GPS-C²⁴

¹NA when local weather not available.

²NA when Scottsdale altimeter not available.

³Categories A, B, C, 1100-3.

⁴Categories A, B, 900-2½; Category C, 900-2¾.

TONOPAH, NV

TONOPAH **VOR or GPS-A**
Category D, 800-2½.

TOOELE, UT

BOLINDER FIELD-
TOOELE VALLEY **ILS or LOC/DME Rwy 17¹**
RNAV (GPS) Rwy 17
NA when local weather not available.
¹ILS, Category D, 700-2.

TUCSON, AZ

TUCSON INTL **ILS or LOC Rwy 11L¹**
LOC/DME BC Rwy 29R²
RNAV (GPS) Z Rwy 11L²
RNAV (GPS) Rwy 29R²
RNAV (GPS) Rwy 3³
RNAV (GPS) Rwy 29L⁴
RNAV (GPS) Z Rwy 29R²
VOR or TACAN Rwy 11L²
VOR/DME or TACAN Rwy 29R²

¹ILS, LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3; Category E, 1100-3.

²Category E, 1100-3.

³Categories A, B, C, D, 800-2½.

⁴Category D, 800-2½.

WENDOVER, UT

WENDOVER **VOR/DME-B¹**
VOR/DME or TACAN Rwy 26²
¹Categories A, B, 1700-2; Categories C, D, E, 1700-3.
²Category E, 800-2½.

WINNEMUCCA, NV

WINNEMUCCA MUNI **RNAV (GPS) Rwy 14¹²**
RNAV (GPS) Rwy 32¹
VOR/DME Rwy 14³

¹NA when local weather not available.

²Category C, 800-2½; Category D, 800-2½.

³Category D, 1300-3.

WINDOW ROCK, AZ

WINDOW ROCK **VOR/DME-A**
Categories A, B, 1100-2; Categories C, D, 1100-3.

RADAR INSTRUMENT APPROACH MINIMUMS

DAVIS-MONTHAN AFB (KDMA), AZ (Tucson) (07242 USAF)

ELEV 2704

RADAR¹ - (E) 118.5 125.1 318.1 297.2 ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR	30 ²	3.0°/59/1320	ABCDE	2904 -½	200	(200-½)
	12 ³	3.0°/59/950	ABCDE	2815 -¾	200	(200-¾)

¹No NOTAM MP 1100-1300Z dly. PAR opr 1700-0300Z wkd or termination of A10 flying (contact scheduling for times at DSN 228-5777). ²When ALS inop, increase vis ¼ mile. ³NOT FOR CIVIL USE.

FALLON NAS (KNFL), (VAN VOORHIS FIELD), NV (03191 USN)

ELEV 3934

RADAR¹ - (E) 118.3x 121.875x 262.8x 275.6x 310.6x 345.2x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ²	31L	3.5°/55/905	ABCDE	4126 -¾	200	(200-¾)
	31R	3.5°/55/903	ABCDE	4128 -¾	200	(200-¾)
	13L	3.0°/46/881	ABCDE	4134 -¾	200	(200-¾)
	13R	3.0°/47/912	ABCDE	4134 -¾	200	(200-¾)
	7	3.0°/36/679	ABCDE	4129 -¾	200	(200-¾)
ASR ²	31R		ABCDE	4200 -1	272	(300-1)
	31L		ABCDE	4200 -1	274	(300-1)
	13R		ABCD	4260 -1	326	(400-1)
			E	4260 -1¼	326	(400-1¼)
	13L		ABC	4280 -1	346	(400-1)
			DE	4280 -1¼	346	(400-1¼)
	7		AB	4340 -1	411	(500-1)
			CD	4340 -1¼	411	(500-1¼)
			E	4340 -1½	411	(500-1½)
CIR	All Rwy		AB	4400 -1	466	(500-1)
			C	4400 -1½	466	(500-1½)
			D	4520 -2	586	(600-2)
			E	4980 -3	1046	(1100-3)

CAUTION: ATC Missed Approach Minimum Climb Rate

PAR/ASR	Rwy	Knots	60	120	180	240	300	360
	7 ³	FPM	300	600	900	1200	1500	1800
	13L/R ⁴	FPM	250	500	750	1000	1250	1500
	31L/R ⁴	FPM	270	540	810	1080	1350	1620

¹No-NOTAM MP sked: PAR-2200-0000Z++ Thu, ASR-1500-1700Z++ Wed, when ceil-vis 3000-5 and above. ²Descent to 5700' not authorized until inbound in initial segment within 10 NM of Rwy.

³To 7500'. ⁴To 7300'.

RADAR INSTRUMENT APPROACH MINIMUMS

FORT HUACHUCA/SIERRA VISTA, AZ Amdt. 4A, OCT 22, 2009 (FAA) ELEV 4719

SIERRA VISTA MUNI-LIBBY AAF

RADAR¹ - (E) 127.05 254.35   NA

	RWYGS/TCH/RP	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ²	8	ABCDE	4919-¾	200	(200-¾)				
	26	ABCDE	4829-¾	200	(200-¾)				
ASR	26	ABC	5000-1	371	(400-1)	DE	5000-1¼	371	(400-1¼)
	8	AB	5440-1	721	(800-1)	C	5440-2	721	(800-2)
		D	5440-2¼	721	(800-2¼)	E	5440-2½	721	(800-2½)
CIR ³	26	A	5100-1	381	(400-1)	B	5180-1	461	(500-2)
		C	5180-1½	461	(500-1½)	D	5280-2	561	(600-2)
		E	5400-2½	681	(700-2½)				
	8	AB	5440-1	721	(800-1)	C	5440-2	721	(800-2)
		D	5440-2¼	721	(800-2¼)	E	5440-2½	721	(800-2½)

¹Opr 1500-2300Z Monday-Friday, except for holidays. ²No NOTAM maintenance period 1500-1900Z on the first Thursday of the month. ³Circling not authorized south of runways 8 and 30.

YUMA MCAS/YUMA INTL (KNYL), AZ (09323 USN)

ELEV 213

RADAR - (E) 120.9x 124.15x 125.55x 125.95x 254.0x 270.8x 278.7x 286.0x 301.2x 305.2x 

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
PAR	3L	3.0°/54/1018	ABCDE	295-½	100	(100-½)
	21R ¹	3.0°/54/1067	ABCDE	393-½	200	(200-½)
PAR 3R			AB	520-1	332	(400-1)
SIDESTEP			C	520-1½	332	(400-1½)
			DE	520-2	332	(400-2)
PAR 21L SIDESTEP			ABC	600-1¾	393	(400-1¾)
			DE	600-2¼	393	(400-2¼)
PAR W/O GS 3L			ABCD	520-1	325	(400-1)
			E	520-1¼	325	(400-1¼)
PAR W/O GS 3R			AB	520-1	332	(400-1)
SIDESTEP			C	520-1½	332	(400-1½)
			DE	520-2	332	(400-2)
PAR W/O GS 21R ²			AB	600-½	407	(400-½)
			CD	600-¾	407	(400-¾)
			E	600-1	407	(400-1)
PAR W/O GS 21L			ABC	600-1¾	393	(400-1¾)
SIDESTEP			DE	600-2¼	393	(400-2¼)
ASR	3L		ABC	540-1	345	(400-1)
			DE	540-1¼	345	(400-1¼)
	3R		AB	600-1	412	(400-1)
			CD	600-1¼	412	(400-1¼)
			E	600-1½	412	(400-1½)
	21L		ABC	600-1	393	(400-1)
			D	600-1¼	393	(400-1¼)
			E	600-1½	393	(400-1½)
	21R ³		AB	620-½	427	(500-½)
			C	620-¾	427	(500-¾)
			DE	620-1	427	(500-1)
CIR ⁴	ALL RWY		AB	700-1	487	(500-1)
			C	700-1½	487	(500-1½)
			D	780-2	567	(600-2)
			E	800-2	587	(600-2)

¹When ALS inop, increase CAT ABCDE vis to ¾ mile. ²When ALS inop, increase CAT AB vis to 1 mile, CAT CD to 1¼ miles, CAT E to 1½ miles. ³When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1¼ miles, CAT DE to 1½ miles. ⁴When circling from PAR W/O GS Rwy 21R, increase CAT ABC vis to 1¾ miles, CAT DE to 2¼ miles.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min climb of 282' per NM to 7300 or 4700-3 for climb in visual conditions. **Rwy 12**, std. w/ a min climb of 386' per NM to 7600 or 4700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8200 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 12**, climb heading 122° and BAM R-076 to 10000 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 21**, climb direct BAM VORTAC and BAM R-205 to 10100 before proceeding on course. **Rwy 30**, climb heading 302° and BAM R-324 to 9100 before proceeding on course.

BEAVER, UT

BEAVER MUNI

TAKE-OFF MINIMUMS: **Rwys 7, 25**, NA-obstacles. **Rwys 13, 31**, 2600-234 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb in visual conditions to cross Beaver Muni Airport Northwestbound at or above 8300 then climb to 10100 via MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210 KIAS until established on MLF VORTAC R-102.

NAME TAKE-OFF MINIMUMS

BLANDING, UT

BLANDING MUNI

TAKE-OFF MINIMUMS: **Rwy 35**, 800-1 or std. with a min. climb of 350 feet per NM to 6700.

DEPARTURE PROCEDURE: **Rwy 17**, turn left. **Rwy 35**, turn right climb to 9000 via heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

BRIGHAM CITY, UT

BRIGHAM CITY (BMC)

AMDT 5 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, std. w/ min. climb of 325' per NM to 5300 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn heading 205° and OGD R-331 to OGD VORTAC. **Rwy 34**, climbing left turn heading 205° and OGD R-331 to OGD VORTAC or for climb in visual conditions: cross Brigham City airport southbound at or above 9200 then via OGD R-351 to OGD VORTAC.

NOTE: **Rwy 16**, poles 266' from DER, 558' right of centerline, 30' AGL/4258' MSL.



BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)

AMDT 1 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 370' per NM to 1800, or 1700-3 for climb in visual conditions. **Rwy 34**, std. w/ a min. climb of 495' per NM to 5500, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 164° and EED VORTAC R-334 to EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **Rwy 34**, climb via heading 344° to 1600, then climbing right turn direct EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **All**

Aircraft climb in EED VORTAC holding pattern (East, right turn, 257° inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 16**, multiple bushes beginning 3600' from DER, left of centerline, up to 12' AGL/1029' MSL.

Rwy 34, multiple poles beginning 2211' from DER, right of centerline, up to 105' AGL/821' MSL.

CARSON CITY, NV

CARSON (CXP)

ORIG 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 9**, use JIMPA DEPARTURE.

CASA GRANDE, AZ

CASA GRANDE MUNI

DEPARTURE PROCEDURE: **Rwy 5**, right turn. **Rwy 23**, climb direct TFD VORTAC. Continue climb in holding pattern (SW, right turn, 048° inbound) to MEA for direction of flight.

CEDAR CITY, UT

CEDAR CITY RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 3500-3 or std. with a min. climb of 450' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 20, 26**, turn right. **Rwys 2, 8**, turn left, climb direct to CDC VOR/DME, continue climb to 9000 via R-348. Northbound continue on course. All others reverse course, climb to cross CDC VOR/DME at or above MCA for direction of flight.

CHANDLER, AZ

CHANDLER MUNI

DEPARTURE PROCEDURE: **Rwy 4R**, climbing left turn heading 220°. **Rwys 22L, 22R**, climbing left turn heading 190°. **All Aircraft**, continue climb via TFD R-350 to TFD VORTAC.

NOTE: **Rwy 4L**, multiple towers and buildings beginning 69' from departure end of runway, 397' left of centerline, up to 80' AGL/1319' MSL.

CHANDLER, AZ (CON'T)

STELLAR AIRPARK

DEPARTURE PROCEDURE: **Rwy 17**, turn left, climb via heading 150°. **Rwy 35**, turn right. **All aircraft** climb via TFD R-350 direct TFD VORTAC.

NOTE: **Rwy 17**, tower and signs beginning 574' from departure end of runway, 183' right of centerline, up to 50' AGL/1124' MSL. Sign 611' from departure end of runway, 365' left of centerline, 42' AGL/1214' MSL.

COLORADO CITY, AZ

COLORADO CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwys 20, 29, turn left. **All aircraft** climb to 7400 via the 160° bearing from AZC NDB then continue climb on course.

COOLIDGE, AZ

COOLIDGE MUNI

DEPARTURE PROCEDURE: **Rwys 5, 35**, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course. **Rwy 17**, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course. **Rwy 23**, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

DAVIS-MONTHAN AFB (KDMA)

TUCSON, AZ.07186

Diverse departures not authorized, use published departure procedure for obstacle avoidance.

TAKE-OFF OBSTACLES: **Rwy 12**: Terrain 0' AGL/2707' MSL, 81' from DER, 500' left of centerline. Terrain 0' AGL/2707' MSL, 46' from DER, 512' left of centerline. Terrain 0' AGL/2707' MSL, 16' from DER, 500' left of centerline. Terrain 0' AGL/2706' MSL, 0' from DER, 200' left of centerline. **Rwy 30**: Terrain 0' AGL/2592' MSL, 0' from DER, 106' left of centerline. Terrain 0' AGL/2592' MSL, 7' from DER, 97' left of centerline. Terrain 0' AGL/2592' MSL, 0' from DER, 484' right of centerline. Terrain 0' AGL/2592' MSL, 13' from DER, 493' right of centerline. Vehicle 11' AGL/2615' MSL, 1017' from DER, 477' left of centerline. Terrain 0' AGL/2612' MSL, 237' from DER, 590' left of centerline.

DELTA, UT

DELTA MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 412' per NM to 6600, or 1800-3 for climb in visual conditions. Climb in visual conditions NA at night. **Rwy 12**, NA-terrain. **Rwy 30**, NA-airspace.

DEPARTURE PROCEDURE: **Rwy 17**, climb via DTA VORTAC R-347 to DTA VORTAC, or climb in visual conditions to cross departure end of runway southbound at or above 6400, then via DTA VORTAC R-347 to DTA VORTAC, thence...**Rwy 35**, climb via heading 346° to 5800, then climbing left turn via heading 180° and DTA VORTAC R-310 to DTA VORTAC, thence...
...climb in holding pattern (hold south, left turn, 004° inbound) to cross DTA VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 17**, trees 1598' from departure end of runway, 62' right of centerline, 60' AGL/4799' MSL.

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL

DEPARTURE PROCEDURE: Climb to 5700 in holding pattern, right turn to 140 inbound DUG VORTAC, then assigned route. CAT C,D turbojets climb not to exceed 250 kts. to 8000.

DUCHESNE, UT

DUCHESNE MUNI

DEPARTURE PROCEDURE: Climb direct to MTU VORTAC to depart at or above 7200 eastbound or 10000 westbound.

ELKO, NV

ELKO RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. with a min. climb of 330' per NM to 8000. **Rwy 23**, 2500-3 or std. with a min. climb of 340' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 6000, then climbing right turn direct BQU VOR/DME, then...

Rwy 23, (V32 Southwest) climb to 6000, then climbing left turn heading 200° to intercept BQU R-241 (V32).

Rwy 23, all others climb runway heading to 6000, then climbing left turn direct BQU VOR/DME, then... climb in BQU VOR/DME holding pattern (S, left turns, 340° inbound) to cross BQU VOR/DME at the MEA/MCA/MOCA for direction of flight.

ELY, NV

ELY AIRPORT-YELLAND FIELD

TAKE-OFF MINIMUMS: **Rwys 30,36**, 3000-2 or std. with a min. climb of 700' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 12,30,36**, right turn; **Rwy 18**, straight ahead; intercept. ELY VOR/DME R-150 to 10000. Aircraft departing on V293 southeast climb on course to MEA. Departures V269 or V293 northbound, reverse course to the left, continue climb to cross ELY VOR/DME at or above 12000.

FALLON, NV

FALLON MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 350' per NM to 4300.

DEPARTURE PROCEDURE: **Rwy 21**, turn right.

Rwys 3,13,31, turn left. All departures climb via HZN R-075 to HZN VORTAC. Climb in holding pattern (W, right turns, 075° inbound) to depart HZN VORTAC at or above: R-240 CWR-149, 8000; R-150 CWR-239, 9000. Continue climb on course to MEA or assigned altitude.

FALLON NAS (KNFL)

FALLON, NV

Diverse departures not authorized.

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. Aircraft departing FLG R-160 CWR-175 climb on course. All others climb southbound on FLG R-172 to 9000, then climbing left turn direct FLG VOR/DME.

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF

TAKE-OFF MINIMUMS: **Rwy 21**, NA.

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

Rwys 26,30, turn right. All aircraft climb to 9500 to TOMBS Int via FHU VOR R-019 or 018° bearing from DAO NDB.

GLENDALE, AZ

GLENDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 19**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 1**, Use DRAKE (RNAV) DEPARTURE.

GLOBE, AZ

SAN CARLOS APACHE (P13)

ADMT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR

TAKE-OFF MINIMUMS: **Rwy 3**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 21**, Use POTER DEPARTURE.

GRAND CANYON, AZ

GRAND CANYON NATIONAL PARK

TAKE-OFF MINIMUMS: **Rwy 3**, NA-environmental.

DEPARTURE PROCEDURE: **Rwy 21**, use GRAND DEPARTURE.

HEBER CITY, UT

HEBER CITY MUNI-RUSS MCDONALD FIELD

DEPARTURE PROCEDURE: **Rwy 3**, Use COOLI RNAV DEPARTURE.

HILL AFB (KHIF)

OGDEN, UT

Diverse departures not authorized, use radar vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT

HUNTINGTON MUNI (69V)

AMDT 2A 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18,26,36**, NA. **Rwy 30**, 1700-3 or std. with a min. climb of 300' per NM to 8100.

DEPARTURE PROCEDURE: **Rwys 8,12**, climbing left turn direct PUC VOR/DME...

Rwy 30, climbing right turn direct PUC VOR/DME.... continue climb in PUC VOR/DME holding pattern (hold S, right turns, 009° inbound) to MEA for direction of flight.

NOTE: **Rwy 8**, tree 2663' from DER, 922' left of centerline, 40° AGL/5979' MSL. **Rwy 12**, tree 333' from DER, 132' right of centerline, 40° AGL/5919' MSL.

Rwy 30, tree 2065' from DER, 875' left of centerline, 40° AGL/5999' MSL.

KANAB, UT**KANAB MUNI**

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 316' per NM to 7200.

NOTE: Use KACIR ONE RNAV DEPARTURE.

KINGMAN, AZ**KINGMAN**

TAKE-OFF MINIMUMS: **Rwys 3, 17, 21, 35**, 800-1 or std. with a min. climb of 210' per NM to 7000.

DEPARTURE PROCEDURE: Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. If unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).

LAGUNA AAF (LGF)**YUMA PROVING GROUND, AZ (03247)**

Rwy 6, 18, 36 turn right, climb to 3600 direct BZA VORTAC.

Rwy 24 climb to 3600 direct to BZA VORTAC.

TAKE-OFF OBSTACLES:

Rwy 18: 386' (6' AGL) windsock, 818' from departure end of rwy, 194' left of centerline.

LAKE HAVASU CITY, AZ**LAKE HAVASU CITY**

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1½ or std. w/ min. climb of 278' per NM to 1200. **Rwy 32**, 600-1½ or std. w/ min. climb of 492' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight. **Rwy 32**, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 14**, obstruction light on transmission tower, 1.2 NM from departure end of runway, 1885' left of centerline, 151' AGL/1027' MSL. Transmission tower 1.4 NM from departure end of runway, 1953' left of centerline, 145' AGL/1058' MSL. Bush 1080' from departure end of runway, 500' left of centerline, 31' AGL/825' MSL. Terrain 145' from departure end of runway, 347' left of centerline, 14' AGL/797' MSL. Bush 1256' from departure end of runway, 255' left of centerline, 35' AGL/818' MSL. **Rwy 32**, obstruction light on transmission tower 4052' from departure end of runway, 932' right of centerline, 180' AGL/974' MSL. Transmission tower 2504' from departure end of runway, 1009' right of centerline, 112' AGL/903' MSL.

LAS VEGAS, NV**HENDERSON EXECUTIVE**

TAKE-OFF MINIMUMS: **Rwy 17L/R**, Cat A/B std. with a min. climb of 491' per NM to 6000, or 2100-3 for climb in visual conditions, Cat C/D NA. **Rwy 35L/R**, Cat A/B std. with a min. climb of 312' per NM to 4700, or 2100-3 for climb in visual conditions, Cat C/D NA.

DEPARTURE PROCEDURE: **Rwy 17L/R**, climbing right turn via LAS R-157 to LAS VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC. **Rwy 35L/R**, climbing right turn via BLD R-257 to BLD VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC.

NOTE: **Rwy 17L**, tree 5610' from departure end of runway, 82' left of centerline, 100' AGL/2739' MSL. Tree 1.9 miles from departure end of runway, 1495' left of centerline, 100' AGL/2859' MSL. **Rwy 17R**, tree 4041' from departure end of runway, 859' left of centerline, 100' AGL/2739' MSL.

MCCARRAN INTL (KLAS)

TAKE-OFF MINIMUMS: **Rwy 25R**, 200-1 or std. with a min. climb of 220' per NM to 2400.

DEPARTURE PROCEDURE: **Rwys 1L, 1R**, climbing right turn direct BLD VORTAC. **Rwys 7L, 7R**, climb via heading 075° to 3400 then climbing right turn direct BLD VORTAC. **Rwys 19L, 19R**, climbing left turn via heading 120° and BLD VORTAC R-257 to BLD VORTAC. **Rwys 25L, 25R**, climb via heading 255° to 2700 then climbing right turn direct BLD VORTAC.

NOTE: **Rwy 1L**, multiple poles, tree, and building 450' from departure end of runway, 283' left of centerline, up to 174' AGL/2132' MSL. Obstruction light on WSK 248' from departure end of runway, 224' right of centerline, 15' AGL/2104' MSL. **Rwy 1R**, multiple sign and building 1331' from departure end of runway, 448' right of centerline, up to 100' AGL/2120' MSL. **Rwy 7L**, multiple poles and trees 747' from departure end of runway, 442' right of centerline, up to 62' AGL/2062' MSL. Tree 1257' from departure end of runway, 789' left of centerline, 65' AGL/2077' MSL. **Rwy 7R**, lighted WSK 126' from departure end of runway, 290' right of centerline, 25' AGL/2051' MSL. **Rwy 19L**, multiple poles, sign and building 1394' from departure end of runway, 320' right of centerline, up to 51' AGL/2256' MSL. **Rwy 19R**, multiple poles, sign, and building 197' from departure end of runway, 125' right of centerline, up to 51' AGL/2256' MSL. Multiple pole and building 1396' from departure end of runway, 356' left of centerline, up to 47' AGL/2262' MSL. **Rwy 25L**, multiple poles, sign, and building 1003' from departure end of runway, 251' left of centerline, up to 63' AGL/2256' MSL. **Rwy 25R**, multiple poles and road 675' from departure end of runway, 17' right of centerline, up to 100' AGL/2301' MSL. Multiple poles and buildings 533' from departure end of runway, 1' left of centerline, up to 150' AGL/2469' MSL.

NORTH LAS VEGAS (VGT)**AMDT 3 08045 (FAA)**

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.

LOGAN, UT

LOGAN-CACHE (LGU)

AMDT 8 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10,28**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwys 17, 35**, use ORNEY DEPARTURE.

LOVELOCK, NV

DERBY FIELD (LOL)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 2300-2 or std. with a min. climb of 300' per NM to 6200. **Rwy 7**, 1100-1 or std. with a min. climb of 250' per NM to 5000. **Rwys 19, 25**, 2300-2 or std. with a min. climb of 260' per NM to 6200.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

Rwys 7,19,25, turn left, climb direct LLC VORTAC. Aircraft departing 330° CW 359° climb via LLC R-333 to ROBUD INT; 360° CW 089° climb in LLC VORTAC holding pattern (hold NW, left turns, 153° inbound) to depart LLC VORTAC at or above 8600; 090° CW 219° climb on course; 220° CW 329° climb in LLC VORTAC holding pattern to depart LLC VORTAC at or above 8600. Continue climb on course to MEA or assigned altitude.

LUKE AFB (KLUF)

GLENDAL, AZ AMDT 3, 09183

Diverse departures not authorized.

Use published DP, if unable to comply with DP notify clearance delivery and request RADAR Vectors.

TAKE-OFF OBSTACLES:

RWY 3L: Taxiing aircraft, 19' AGL/1126' MSL, 1221' from DER, 782' left of centerline. Taxiing aircraft, 19' AGL/1126' MSL, 1407' from DER, 609' left of centerline. Weather equipment, 15' AGL/1117' MSL, 759' from DER, 505' right of centerline. Weather equipment, 15' AGL/1117' MSL, 1209' from DER, 505' right of centerline. Building, 20' AGL/1127' MSL, 1620' from DER, 925' left of centerline.

RWY 21L: Taxiing aircraft, 38' AGL/1120' MSL, 1428' from DER, 774' left of centerline.

MESA, AZ

FALCON FIELD

TAKE-OFF MINIMUMS: **Rwys 4L,4R**, std. with a min. climb of 459' per NM to 3600, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4L, 4R**, climbing left turn to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound. For climb in visual conditions cross FFZ NDB at or above 2300 then proceed via 220° bearing to PXR R-143 southeast bound. **Rwy 22L, 22R**, climb to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound.

NOTE: **Rwy 4L**, light standard 416' from departure end of runway, 415' left of centerline, 48' AGL/1428' MSL. Obstacle light on building 1313' from departure end of runway, 424' left of centerline, 54' AGL/1434' MSL. **Rwy 4R**, light standard 514' from departure end of runway, 565' right of centerline, 48' AGL/1441' MSL. Tree 1097' from departure end of runway, 650' right of centerline, 50' AGL/1448' MSL. Tree 1060' from departure end of runway, 359' right of centerline, 50' AGL/1451' MSL. **Rwy 22L**, light pole 254' from departure end of runway, 538' right of centerline, 13' AGL/1382' MSL. Windmill 691' from departure end of runway, 528' right of centerline, 30' AGL/1389' MSL. Windmill 715' from departure end of runway, 603' right of centerline, 30' AGL/1389' MSL. Light pole 68' from departure end of runway, 764' right of centerline, 13' AGL/1382' MSL. Tree 175' from departure end of runway, 826' right of centerline, 13' AGL/1383' MSL. **Rwy 22R**, light pole 296' from departure end of runway, 541' right of centerline 13' AGL/1400' MSL. Light pole 495' from departure end of runway, 187' right of centerline, 13' AGL/1382' MSL. Light pole 594' from departure end of runway, 65' right of centerline, 13' AGL/1382' MSL.

MESQUITE, NV

MESQUITE

TAKE-OFF MINIMUMS: **Rwy 1**, 900-3, or std. with a min. climb of 620' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn, **Rwy 19**, climbing right turn. **All aircraft** climb direct MMM VORTAC. Aircraft departing MMM R-149 CW R-220 climb on course. All others continue climb via MMM R-196 to 6100 and reverse course to cross MMM VORTAC at or above: R-221 CW R-270 and R-331 CW R-060, 6100; R-271 CW R-330, 7300; R-061 CW R-150, 8300.

MICHAEL AAF (KDPG),

DUGWAY PROVING GROUND, UT

.....Amdt 1, 09099
Rwy 12, 4700-3*

* Or standard with minimum climb of 305 ft/NM to 6100.

DEPARTURE PROCEDURES: **Rwy 12** Climb via heading 122° to 6100, then right turn direct DPG NDB. Continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course, or for climb in visual conditions: Cross Michael AAF, Dugway Proving Ground at or above 8900 before proceeding on course. **Rwy 30** Climb via heading 302° to 6100 then left turn direct DPG NDB, continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD

TAKE-OFF MINIMUMS: **Rwy 34**, CAT A,B 1200-2 or std. with a min. climb of 360' per NM to 6500. CAT C,D NA.
DEPARTURE PROCEDURE: **Rwy 16**, climb direct MLF VORTAC. **Rwy 34**, climbing left turn direct MLF VORTAC. Aircraft departing MLF R-170 CW R-210 climb on course. All other aircraft continue climb southbound via MLF R-190 to 7600, then climbing right turn to cross MLF VORTAC at or above 9000, then climb on course.

MINDEN, NV

MINDEN-TAHOE

TAKE-OFF MINIMUMS: **Rwys 12,16,30**, NA. **Rwy 34**, 4000-3 or std. with a min. climb of 531' per NM to 8700.
DEPARTURE PROCEDURE: **Rwy 34**, use MINDEN RNAV DEPARTURE.

MOAB, UT

CANYONLANDS FIELD

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 320' per NM to 5800. **Rwy 21**, std. with a min. climb of 330' per NM to 5400.
DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwy 21**, turn right climb to 6700 via OAB R-293, then climbing right turn direct OAB VOR/DME. Climb in OAB holding pattern (NW, left turns, 113° inbound) to 10000 then proceed on course.

NOTE: **Rwy 3**, tree 4383' from departure end of runway, 1507' right of centerline, 50' AGL/4729' MSL. Road 1749' from departure end of runway, 905' left of centerline, 15' AGL/4635' MSL. Tree 3914' from departure end of runway, 1166' right of centerline, 50' AGL/4690' MSL. Tree 1.25 NM from departure end of runway, 400' right of centerline, 50' AGL/4758' MSL.
Rwy 21, pole 2026' from departure end of runway, 78' right of centerline, 80' AGL/4625' MSL. Pole 2061' from departure end of runway, 40' right of centerline, 80' AGL/4625' MSL. Pole 2095' from departure end of runway, 857' right of centerline, 80' AGL/4623' MSL. Pole 1980' from departure end of runway, 344' right of centerline, 80' AGL/4602' MSL.

NELLIS AFB (KLSV)

LAS VEGAS, NV

08241

Rwy 3L/R, 10,200-3° SR-SS

Rwy 21L/R, 10,200-3° SR-SS

Diverse departure not authorized.

MILITARY: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 300' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vector climb gradient, A/C must depart VFR.

* CIVIL: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 330' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vectors climb gradient, A/C may use published weather minimums or depart VFR.

TAKE-OFF OBSTACLES: **RWY 3L**: Terrain 0' AGL/1870' MSL, 0' inward of DER, 500' left of centerline. Road 15' AGL/1934' MSL, 1321' from DER, 802' left of centerline. **RWY 3R**: C-5 on taxiway 65' AGL/1936' MSL, 1345' from DER, 822' right of centerline. Road 15' AGL/2014' MSL, 3929' from DER, 1404' right of centerline. **RWY 21L**: Trees 90' AGL/1949' MSL, 4594' from DER, 1596' right of centerline. Trees 90' AGL/1949' MSL, 4940' from DER, 541' right of centerline. Trees 60' AGL/1899' MSL 929' from DER, 724' left of centerline. Trees 60' AGL/1899' MSL, 946' from DER, 626' left of centerline. Trees 60' AGL/1899' MSL, 2720' from DER, 341' left of centerline. Trees 60' AGL/1899' MSL, 2514' from DER, 403' left of centerline.

RWY 21R: Terrain 0' AGL/1835' MSL, 0' inward of DER, 500' right of centerline. Trees 90' AGL/1949' MSL, 4594' from DER, 597' right of centerline. Building 45' AGL/1904' MSL, 2274' from DER, 1037' right of centerline. Road 15' AGL/1874' MSL, 1404' from DER, 465' right of centerline.

NOGALES, AZ

NOGALES INTL (OLS)

AMDT 2 09351 (FAA)

TAKE-OFF MINIMUMS: Use NOGALES DEPARTURE.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,16**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwys 3, 21, 25, 34**, Use EMONT DEPARTURE.

PAGE, AZ

PAGE MUNI (PGA)

AMDT 2 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25, NA**—obstacles **Rwy 15**, 300-1 or std. w/ min. climb of 252' per NM to 6500, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climb via 157° heading to 6000, then climbing right turn to PGA VOR/DME. cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA, or climb in visual conditions: cross Page airport at or above 6100, before proceeding on course. **Rwy 33**, climb via 337° heading to 6000, then climbing left turn to PGA VOR/DME. Cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA.

NOTE: **Rwy 15**, terrain 192' from departure end of runway, 274' right of centerline, 4323' MSL, tree 1.07 NM from departure end of runway, 167' left of centerline, 4519 MSL, transmission lines 1.96 NM from departure end of runway, 825' left of centerline, 100' AGL/4519' MSL, power line 4.00 NM from departure end of runway, 3606' right of centerline, 75' AGL/4819' MSL, power line 4.35 NM from departure end of runway, 3968' right of centerline, 75' AGL/4919' MSL, power line 5.36 NM from departure end of runway, 5039' right of centerline, 75' AGL/5119' MSL, power line 4.51 NM from departure end of runway, 4136' right of centerline, 75' AGL/5019' MSL, tree 4.52 NM from departure end of runway, 1508' right of centerline, 100' AGL/5173' MSL, AAO 4.58 NM from departure end of runway, 1617' right of centerline, 200' AGL/5187' MSL, AAO 5.15 NM from departure end of runway, 4456' left of centerline, 200' AGL/5190' MSL, tree 5.56 NM from departure end of runway, 4097' right of centerline, 30' AGL/5249' MSL, AAO 5.98 NM from departure end of runway, 653' left of centerline, 200' AGL/5440' MSL.

PARKER, AZ

AVI SUQUILLA

TAKE-OFF MINIMUMS: **Rwy 1**, 800-1½. **Rwy 19**, 300-1. DEPARTURE PROCEDURE: **Rwy 19**, right turn. **Rwy 1**, left turn. Climb via R-067 to PKE VORTAC, to cross above 4500. Continue climb on course to MEA or assigned altitude.

PAYSON, AZ

PAYSON

TAKE-OFF MINIMUMS: **Rwy 6**, std. with a min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions. **Rwy 24**, std. with a min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions. DEPARTURE PROCEDURE: **Rwys 6, 24**, for climb in visual conditions: Cross Payson Airport at or above 7500, then proceed on course.

NOTE: **Rwy 24**, bush 15' from departure end of runway, 133' right of centerline, 6' AGL/5148' MSL. Tree 320' from departure end of runway, 183' right of centerline, 12' AGL/5154' MSL. Fence 85' from departure end of runway, 84' left of centerline, 4' AGL/5141' MSL. Tree 164' from departure end of runway, 126' left of centerline, 9' AGL/5147' MSL.

PHOENIX, AZ

PHOENIX-DEER VALLEY

DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.

PHOENIX SKY HARBOR INTL (PHX)

AMDT 4A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. with a min. climb of 358' per NM to 2000.

DEPARTURE PROCEDURE: **Rwys 7L, 7R, 8**, climb via 078° heading to 3000, then climbing right turn direct PHOENIX (PXR) VORTAC. **Rwys 25L, 25R**, climb via 258° heading to 1550 then climbing right turn to join the PXR R-260 (V16) westbound, climb to 5000. **Rwy 26**, climb via 258° heading to 1550 then climbing left turn to join the PXR R-260 (V16) westbound, climb to 5000. Westbound departures continue climb on PXR R-260. All others, climbing right turn direct PXR VORTAC.

NOTE: **Rwy 7L**, building 1332' from DER, 798' left of centerline, 67' AGL/1176' MSL. **Rwy 7R**, rd 716' from DER, 184' right of centerline, 87' AGL/1196' MSL. **Rwy 8**, light standard 3530' from DER, 1207' left of centerline, 123' AGL/1232' MSL. Light standard 3479' from DER, 1003' left of centerline, 118' AGL/1227' MSL. **Rwy 25L**, light standard 1129' from DER, 774' left of centerline, 91' AGL/1200' MSL. ASDE-X equipment 411' from DER, 531' left of centerline, 29' AGL/1135' MSL. **Rwy 26**, light 59' from DER, 63' right of centerline, 16' AGL/1125' MSL. Pole 58' from DER, 90' right of centerline, 25' AGL/1125' MSL. Light 78' from DER of runway, 64' right of centerline, 18' AGL/1127' MSL. Light 38' from DER, 440' left of centerline, 24' AGL/1135' MSL. Light standard 77' from DER, 453' left of centerline, 27' AGL/1136' MSL. Light standard 74' from DER, 456' right of centerline, 33' AGL/1142' MSL. Light standard 77' from DER, 434' right of centerline, 31' AGL/1140' MSL. Tree 113' from DER, 294' right of centerline, 24' AGL/1133' MSL. Building 2.32 NM from DER, 3309' right of centerline, 406' AGL/1496' MSL. Building 2.28 NM from DER, 3612' right of centerline, 663' AGL/1750' MSL. Tree 234' from DER, 214' right of centerline, 24' AGL/1133' MSL. Light standard 64' from DER, 68' left of centerline, 39' AGL/1125' MSL. ASDE-X equipment 897' from DER, 413' right of centerline, 35' AGL/1141' MSL.

PHOENIX-MESA GATEWAY

TAKE-OFF MINIMUMS: **Rwys 30L, 30C, 30R**, CAT C,D,E 2000-2 or std. with a min. climb of 230' per NM to 3900.

DEPARTURE PROCEDURE: **Rwys 12L, 12C, 12R**, climb to 2500 via IWA R-122 then climbing right turn direct PXR VORTAC. **Rwys 30L, 30C, 30R**, climbing right turn to 4000 via IWA R-122 then climbing right turn direct PXR VORTAC.

PRESCOTT, AZ

ERNEST A. LOVE FIELD

TAKE-OFF MINIMUMS: **Rwy 12**, 2700-2 or std. with a min. climb of 460' per NM to 8100. **Rwy 21L**, 2700-2 or std. with a min. climb of 500' per NM to 8100. **Rwy 30**, 300-1 or std. with a min. climb of 300' per NM to 5200. **Rwy 3L, 21R, NA**.

DEPARTURE PROCEDURE: **Rwy 3R**, turn left heading 250° to intercept DRK R-305. **Rwy 12**, turn right direct DRK VORTAC. **Rwy 21L**, turn right heading 335° to intercept DRK R-305. **Rwy 30**, climb direct DRK VORTAC. **All aircraft** continue climb via DRK R-305 to 9000. Aircraft departing via DRK R-305 continue climb on course. All other aircraft turn right direct DRK VORTAC then climb on course.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FLD (PUC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7, NA** - per flight check **Rwy 32**, std. w/ min. climb of 425' per NM to 7000, or 3400-3 for climb in visual conditions. **Rwy 36**, std. w/ min. climb of 400' per NM to 7200, or 3400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 126° CW to 193°, thence...**Rwy 18**, climb on a heading between 192° CCW to 125°, thence...**Rwy 25**, climb on a heading between 176° CCW to 124°, thence...**Rwy 32**, climb to 7000 then climbing left turn on a heading between 175° CCW to 145°, thence...**Rwy 36**, climb to 6400 then climbing right turn on a heading between 141° CW to 184°, maintain 210K until completion of turn, thence... continue climb to assigned altitude for direction of flight. **Rwys 32, 36**, for climb in visual conditions cross Carbon County Rgnl / Buck Davis Field at or above 9200 before proceeding on course.

NOTE: **Rwy 14**, multiple trees beginning 121' from DER, 3' left of centerline, up to 40' AGL/5839' MSL. **Rwy 25**, trees 515' from DER, 535' right of centerline, up to 40' AGL/5879' MSL. **Rwy 32**, trees 9544' from DER, 1644' left of centerline, up to 40' AGL/6900' MSL. Trees 11332' from DER, 74' right of centerline, up to 40' AGL/6800' MSL. **Rwy 36**, poles 2599' from DER, 615' left of centerline, 40' AGL/6079' MSL. Poles 2715' from DER, 668' right of centerline, 59' AGL/6098' MSL.

PROVO, UT

PROVO MUNI

DEPARTURE PROCEDURE: Use PROVO DEPARTURE.

RENO, NV

RENO/STEAD (RTS)

AMDT 3A 09183 (FAA)

TAKE-OFF MINIMUMS: CAT A,B only, CAT C,D NA. **Rwys 8,14**, 1300-2 or std. with a min. climb of 400' per NM to 6500. **Rwy 26**, 1900-2 or std. with a min. climb of 410' per NM to 7200. **Rwy 32**, 2300-2 or std. with a min. climb of 420' per NM to 7200.

DEPARTURE PROCEDURE: **Rwys 8,32**, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC. **Rwy 14**, left turn climb direct FMG VORTAC. **Rwy 26**, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC. **All aircraft** climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CW R-170 at or above 10000; R-171 CW R-195 at or above 10500; R-196 CW R-259 at or above 12000.

RENO, NV (CON'T)

RENO/TAHOE INTL (RNO)

AMDT 4 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA-terrain. **Rwy 16L**, std. w/ min. climb of 730' per NM to 8000, or 600-1½ w/ min. climb of 480' per NM to 8000, or 2700-3 for climb in visual conditions. **Rwy 16R**, std. w/ the following minimum climb requirements: 210 knots or less, 385' per NM to 8000; more than 210 knots, 420' per NM to 8900, or 2700-3 for climb in visual conditions. Resume normal speed after passing FMG VORTAC. **Rwy 25**, std. w/ min. climb of 470' per NM to 7800, or 2700-3 for climb in visual conditions. **Rwy 34L**, std. w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions. **Rwy 34R**, std. w/ min. climb of 480' per NM to 7000, or 500-1½ w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 16L/R**, climb heading 164° to 6600 then climbing left turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwy 25**, climb heading 254° to 5000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwys 34L/R**, climb heading 344° to 7000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence...

... **All aircraft**: continue climb in FMG VORTAC holding pattern (northeast, left turn, 221° inbound) to cross FMG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 16L**, multiple poles, trees, bushes and terrain beginning 618' from departure end of runway, 133' left of centerline, up to 20' AGL/4961' MSL. **Rwy 16R**, multiple trees 2784' from departure end of runway, 171' right of centerline, up to 20' AGL/4510' MSL. Multiple trees and terrain beginning 746' from departure end of runway, 380' left of centerline, up to 20' AGL/4703' MSL. **Rwy 25**, multiple trees and poles beginning 829' from departure end of runway, 201' right of centerline, up to 103' AGL/4523' MSL. Building 6023' from departure end of runway, 456' right of centerline, 152' AGL/4608' MSL. Fence 222' from departure end of runway, 270' right of centerline, up to 5' AGL/4415' MSL. Multiple trees and poles beginning 500' from departure end of runway, 31' left of centerline, up to 20' AGL/4506' MSL. **Rwy 34L**, multiple trees and poles beginning 1229' from departure end of runway, 180' right of centerline, up to 20' AGL/4498' MSL. Multiple trees beginning 1193' from departure end of runway, 331' left of centerline, up to 20' AGL/4489' MSL. **Rwy 34R**, multiple trees and poles beginning 1067' from departure end of runway, 172' right of centerline, up to 20' AGL/4497' MSL. Multiple trees and poles beginning 1230' from departure end of runway, 350' left of centerline, up to 20' AGL/4498' MSL. Building 1.2 NM from departure end of runway, 1730' right of centerline, 363' AGL/4780' MSL.

RICHFIELD, UT

RICHFIELD MUNI (RIF)

AMDT 1 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, use RICHFIELD (RNAV) DEPARTURE. **Rwy 19**, use HAMET (RNAV) DEPARTURE.

ROOSEVELT, UT

ROOSEVELT MUNI

TAKE-OFF MINIMUMS: **Rwy 25**, 700-3 or std. with a min. climb of 300' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 7**, turn right.

Rwy 25, turn left. **All aircraft**, climb direct MTU VORTAC. Aircraft departing MTU VORTAC R-040 CWR-150, climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VORTAC; R-151 CW R-290 at or above 8000; R-291 CWR-039 at or above 10,000. Then climb on course.

SAFFORD, AZ

SAFFORD RGNL

TAKE-OFF MINIMUMS: IFR departure not authorized.

ST. GEORGE, UT

ST. GEORGE MUNI

TAKE-OFF MINIMUMS: **Rwy 34**, 1500-2 or std. with a min. climb of 325' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 16**, turn left. **Rwy 34**, turn right. Climb in OZN VOR/DME holding pattern (hold SE, right turns, 296 inbound) to depart OZN VOR/DME at or above MEA for direction of flight.

ST. JOHNS, AZ

ST. JOHNS INDUSTRIAL AIR PARK (SJN)

AMDT 1A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 21**, 400-2 or std. with a min. climb of 205' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 3, 32**, climbing right turn, **Rwys 14, 21**, climbing left turn. **All aircraft**, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW R-080 climb on course. All others continue climb in SJN VORTAC holding pattern (Hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.

NOTE: **Rwy 14**, 5790' tower 350' right abeam departure end of runway.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SALT LAKE CITY, UT

SALT LAKE CITY INTL (SLC)

AMDT 10 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 32**, NA, operational.

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 10000 via heading 161° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 17**, climb to 10000 via heading 166° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwys 34L, 34R**, climb to 9000 via heading 341° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 35**, climb to 9000 via heading 336° and OGD R-153 to OGD VORTAC before proceeding on course.

NOTE: **Rwy 16L**, vehicle 124' from DER, 14' right of centerline, 15' AGL/4239' MSL. Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL. Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL. **Rwy 17**, vehicles beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL. **Rwy 34R**, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL. **Rwy 35**, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

SOUTH VALLEY RGNL AIRPORT (U42)

AMDT 4A 09155 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 2400-3 or std. with a min. climb of 295' per NM to 7700. **Rwy 34**, std. with a min. climb of 353' per NM to 9500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing left turn to 9600 via heading 136° and V21 (TCH R-161 FFU R-341) to FFU VORTAC. Aircraft departing FFU R-156 CW R-263 and R-308 CW R-359 climb on course. All others continue climb in FFU VORTAC holding pattern (S, right turns, 008° inbound) to cross FFU VORTAC at or above: R-360 CW R-093 12400; R-094 CW R-138 10600; R-139 CW R-155 11300; R-264 CW R-307 11500. **Rwy 34**, climbing right turn to 9500 via heading 026° and V21 (TCH R-161) to TCH VORTAC. Aircraft departing TCH R-144 CW R-176 and R-217 CW R-355 climb on course. All others continue climb in TCH VORTAC holding pattern (NW, right turns, 116° inbound) to cross TCH VORTAC at or above: R-356 CW R-116 10700; R-117 CW R-143 11600; R-177 CW R-216 10100.

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

AMDT 7 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min climb of 440' per NM to 4000, or 3100-3 for climb in visual conditions. **Rwy 21**, std. w/ min. climb of 215' per NM to 4000, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 4000 via heading 220° and PXR VORTAC R-336 southeast bound to PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course. **Rwy 21**, climbing right turn to 4000 via heading 300° and PXR VORTAC R-336 northwest bound then left turn direct PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course.

...continue climb on course.

NOTE: **Rwy 3**, multiple light standards beginning 63' from departure end of runway, 445' left of centerline, up to 44' AGL/1554' MSL. Hoist on dike 878' from departure end of runway, 735' left of centerline, 51' AGL/1561' MSL. Dike beginning 1066' from departure end of runway, 316' left of centerline, 38' AGL/1548' MSL. Day marker on dike 1230' from departure end of runway, 5' left of centerline, 39' AGL/1549' MSL. Tree, 269' from departure end of runway, 490' left of centerline, 13' AGL/1523' MSL. Tree 51' from departure end of runway, 279' left of centerline, 6' AGL/1516' MSL. Tree 765' from departure end of runway, 115' left of centerline, 22' AGL/1532' MSL. Road beginning 647' from departure end of runway, 296' left of centerline, 19' AGL/1529' MSL. Tree 227' from departure end of runway, 97' left of centerline, 6' AGL/1516' MSL. Fence beginning 5' from departure end of runway, 338' right of centerline, 6' AGL/1511' MSL. Light standard, 1013' from departure end of runway, 430' right of centerline, 44' AGL/1552' MSL. **Rwy 21**, tree 1072' from departure end of runway, 426' right of centerline, 53' AGL/1497' MSL. Building 316' from departure end of runway, 537' right of centerline, 23' AGL/1467' MSL. Tree 2087' from departure end of runway, 418' left of centerline, 61' AGL/1505' MSL. Tree 1432' from departure end of runway, 438' right of centerline, 38' MSL/1482' MSL. Tree 2234' from departure end of runway, 559' left of centerline, 58' AGL/1502' MSL.

SEDONA, AZ

SEDONA (SEZ)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 21**, Use OATES RNAV DEPARTURE.

SHOW LOW, AZ

SHOW LOW RGNL

DEPARTURE PROCEDURE: **Rwys 3,6**, turn left.

Rwys 21,24, turn right. All aircraft climb via 345 bearing from SOW NDB to DEHOG INT then climb on course.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI

TAKE-OFF MINIMUMS: **Rwy 21**, 1000-2 or std. with a min. climb of 360' per NM to 8400.

DEPARTURE PROCEDURE: **Rwys 3, 11**, climbing left turn to 8400 via heading 360° before proceeding on course. **Rwys 21, 29**, climbing right turn to 8400 via 360° before proceeding on course.

TAYLOR, AZ

TAYLOR MUNI

TAKE-OFF MINIMUMS: **Rwy 21**, 300-1 or std. with a min. climb of 248' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 3/21**, climb on runway heading to 8000 before turning on course.

TONOPAH, NV

TONOPAH

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA. **Rwys 15, 33**, 2600-2 or std. with a min. climb of 260' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 15**, turn left. **Rwy 33**, turn right. Climb direct TPH VORTAC. Continue climb in holding pattern (NE, right turns, 246° inbound) to depart TPH VORTAC at or above 8000. Climb on course to MEA or assigned altitude.

TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 490' per NM to 11000. **Rwy 35**, std. with a min. climb of 360' per NM to 9000.

DEPARTURE PROCEDURE: Use STACO DEPARTURE.

NOTE: **Rwy 17**, tree 794' from departure end of runway, 277' right of centerline, 35' AGL/4380' MSL. Tree 967' from departure end of runway, 432' right of centerline, 35' AGL/4394' MSL. Tree 1023' from departure end of runway, 313' right of centerline, 35' AGL/4395' MSL.

TUCSON, AZ

MARANA RGNL

TAKE-OFF MINIMUMS: **Rwys 3, 12**, N/A-Obstacles DEPARTURE PROCEDURE: **Rwy 21**, climb to 6500 via heading 360° and TUS R-308 to TOTEC Int/TUS 57 DME, then as filed. **Rwy 30**, climb to 6500 via heading 303° intercept TUS R-308 above 3500, to TOTEC INT/TUS 57 DME, then as filed.

NOTE: **Rwy 21**, road 192' from departure end of runway, 527' left of centerline 15' AGL/2034' MSL.

RYAN FIELD

DEPARTURE PROCEDURE: **Rwy 6R**, turn right; **Rwy 24L**, turn left direct to Ryan NDB. Continue climb in holding pattern (W, right turn 090° inbound) to 5000 before proceeding on course.

TUCSON, AZ (CON'T)

TUCSON INTL (TUS)

AMDT 4A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1¾ or std. w/ min. climb of 228' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 3, 29L, 29R**, climbing right turn direct to TUS VORTAC. **Rwys 11L, 11R** climb via runway heading to 4000 then climbing left turn direct TUS VORTAC. **Rwy 21**, climbing left turn direct to TUS VORTAC. **All aircraft** continue climbing in holding pattern (NW, right turns, 128° inbound) to depart TUS VORTAC at or above 9000.

NOTE: **Rwy 3**, tower 9215' from departure end of runway, 1689' left of centerline, 246' AGL/2831' MSL.

VERNAL, UT

VERNAL RGNL

TAKE-OFF MINIMUMS: **Rwy 16**, 1500-2 or std with a min. climb of 250' per NM to 7000'. **Rwy 25**, 1500-2 or std. with a min. climb of 390' per NM to 7000. **Rwy 34**, 1600-2 or std. with a min. climb of 330' per NM to 7000'.

DEPARTURE PROCEDURE: **Rwys 7, 34**, turn right. **Rwys 16, 25**, turn left. **All aircraft** climb direct VEL. Aircraft departing V391 S-bound climb on course. All others climb in holding pattern (SE, right turns, 322° inbound). Aircraft SW-bound V208 depart VEL at or above 8400', all others depart VEL at or above 9500'. Continue climb on course to MEA or assigned altitude.

WENDOVER, UT

WENDOVER

TAKE-OFF MINIMUMS: **Rwy 26**, standard with a min. climb of 300' per NM to 7000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwys 8, 12, 26**, climbing left turn direct BVL VORTAC. Aircraft departing BVL VORTAC R-330 CW R-150 climb on course. All others continue climb in BVL VORTAC holding pattern (Hold NE right turns, 247° inbound) to cross at or above 7400, then climb on course.

WILLCOX, AZ

COCHISE COUNTY

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. **All aircraft** climb direct CIE VORTAC.

WINDOW ROCK, AZ

WINDOW ROCK

TAKE-OFF MINIMUMS: **Rwy 2**, 700-2 or std. with a min. climb of 500' per NM to 8000. **Rwy 20**, 600-2 or std. with a min. climb of 260' per NM to 8200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right.

Rwy 20, turn left direct to GUP VORTAC before proceeding on course.

NOTE: **Rwy 2**, terrain 3832' from departure end of runway, 1025' right of centerline, 6926' MSL. Poles 5220' from departure end of runway, 245' right of centerline, 180' AGL/6922' MSL. Tower 7067' from departure end of runway, 3072' left of centerline, 71' AGL/7316' MSL. Terrain 7449' from departure end of runway, 1612' left of centerline, 6991' MSL. Terrain 8776' from departure end of runway, 1851' left of centerline, 7109' MSL. Tree 9665' from departure end of runway, 1326' right of centerline, 7340' MSL. Tree 11326' from departure end of runway, 355' left of centerline, 7351' MSL. **Rwy 20**, trees 1018' from departure end of runway, 620' left of centerline, 30' AGL/6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 2500-2 or std. with a min. climb of 450' per NM to 6800. **Rwys 14,20**, 3200-2 or std. with a min. climb of 520' per NM to 7500.

DEPARTURE PROCEDURE: **Rwys 14,20**, turn right.

Rwy 2, turn left. **Rwy 32**, climb straight ahead. All aircraft climb via INA R-326 to 6700 or above within 12 NM, then climbing left turn return to INA VOR/DME via R-326. Continue climb in INA VOR/DME holding pattern (hold NW, right turns, 146° inbound) to depart INA VOR/DME at or above 11000. Southbound aircraft continue via INA R-146 direct Fesko Int. Northbound aircraft continue via INA R-326 and SDO R-144 direct SDO VORTAC.

YUMA MCAS/ YUMA INTL(KNYL)

YUMA, AZ 09323

Diverse departures not auth between 360° CW 055° from 25 NM to 30 NM.

Rwy 3L: Cross DER at or above 35' AGL/228' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 3R: Cross DER at or above 35' AGL/242' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 21L: Cross DER at or above 35' AGL/223' MSL.

Diverse departures auth.

Rwy 21R: Cross DER at or above 35' AGL/227' MSL.

Diverse departures auth.

Rwy 8: Cross DER at or above 35' AGL/231' MSL.

Diverse departures auth. Fr 069° CW 123°, std with minimum climb of 230'/NM to 3500'.

Rwy 26: Cross DER at or above 35' AGL/230' MSL.

Diverse departures auth.

Rwy 17: Cross DER at or above 35' AGL/217' MSL.

Diverse departures auth. Fr 068° CW 109°, std with minimum climb of 220'/NM to 3500'.

Rwy 35: Cross DER at or above 35' AGL/231' MSL.

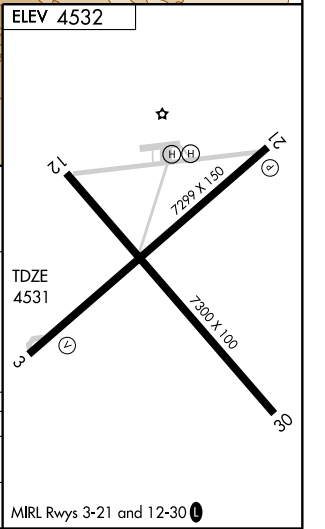
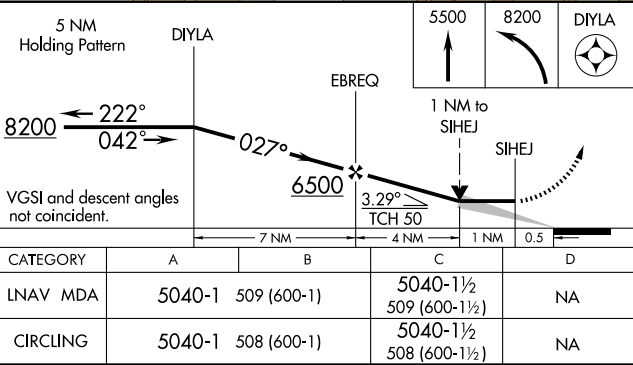
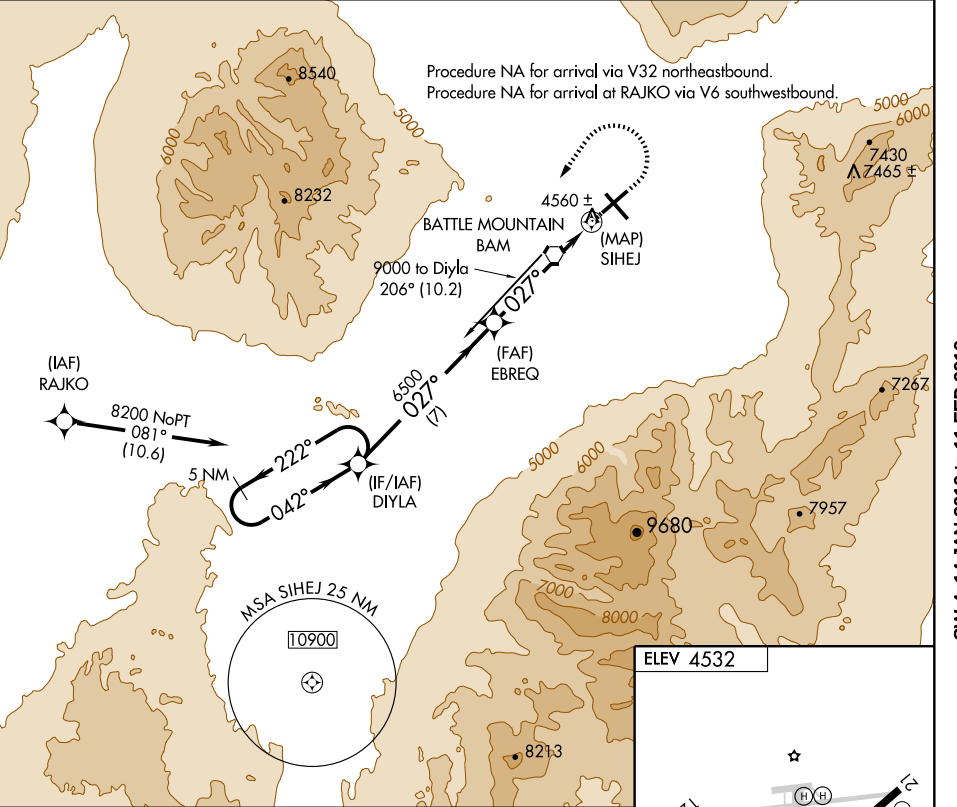
Diverse departures auth.

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 5500 then climbing left turn to 8200 direct DIYLA WP and hold.

AWOS-3 119.45	SALT LAKE CITY CENTER 132.25 338.35	UNICOM 122.8 (CTAF)
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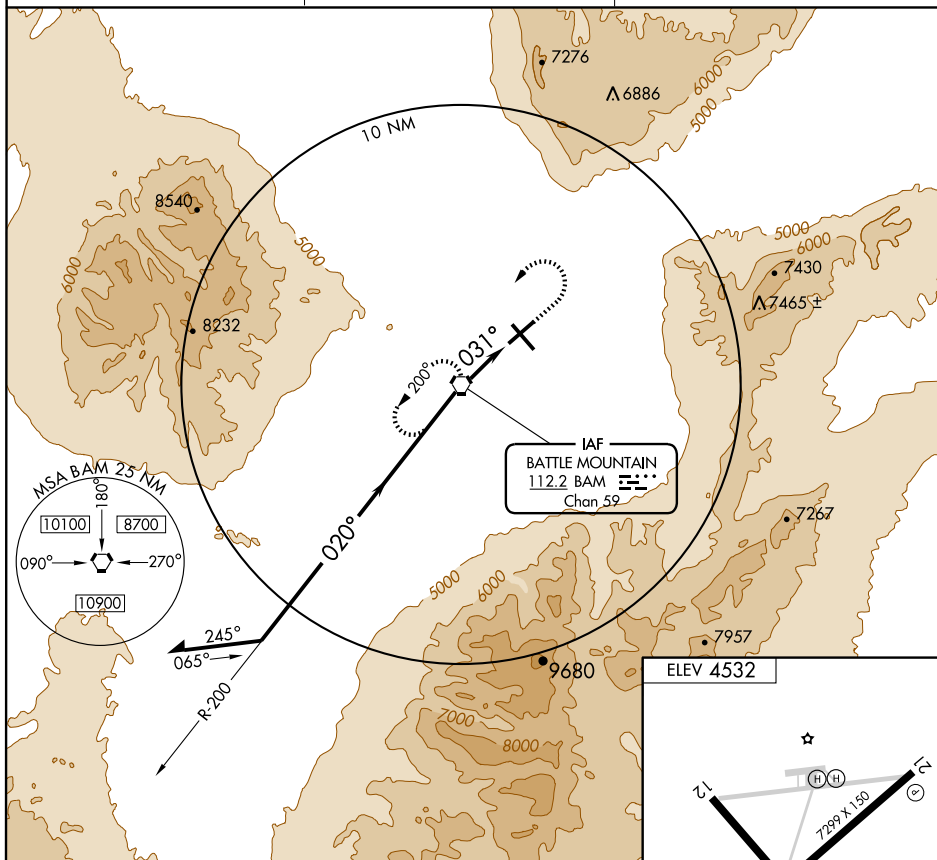
AL-534 (FAA)

VOR-A

BATTLE MOUNTAIN (BAM)

MISSED APPROACH: Climb to 5700, then climbing left turn to 9500 direct BAM VORTAC and BAM R-200 within 15 miles, turn right direct BAM VORTAC and hold.

UNICOM
122.8 (CTAF) **L**



Remain within 15 NM

VORTAC

9500

200°

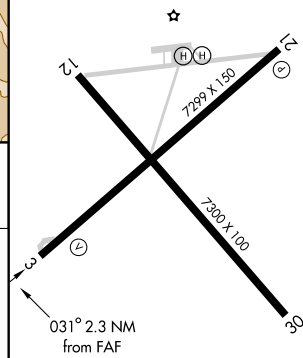
020°

6500

031°

3700	9500	112.2	112.2
↑	↻	↻	↻
1	1	1	1

ELEV 4532



MIRL Rwy 3-21 and 12-30 L

CATEGORY	A	B	C	D	FAF to MAP 2.3 NM					
CIRCLING	5600-1¼ 1068 (1100-1¼)	5600-1½ 1068 (1100-1½)	NA		Knots	60	90	120	150	180
					Min:Sec	2:18	1:32	1:09	0:55	0:46

SW-4. 14 JAN 2010 to 11 FEB 2010

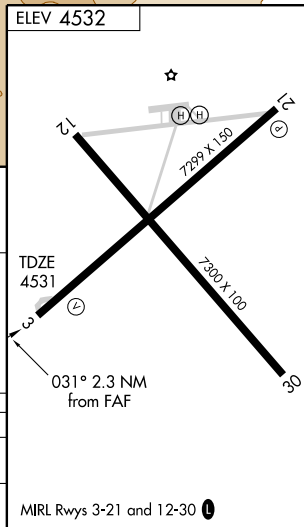
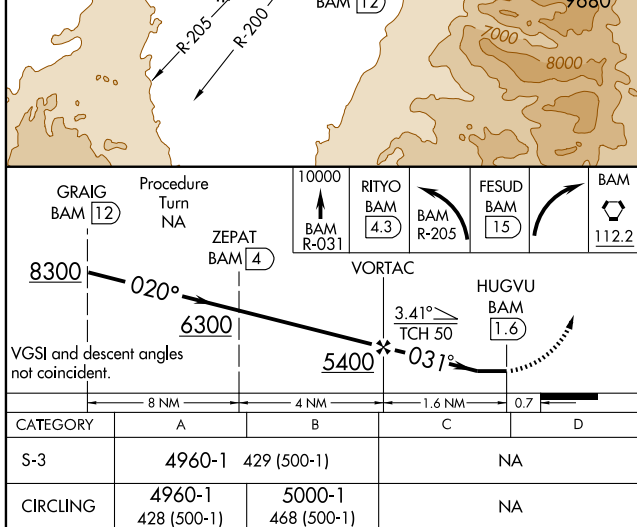
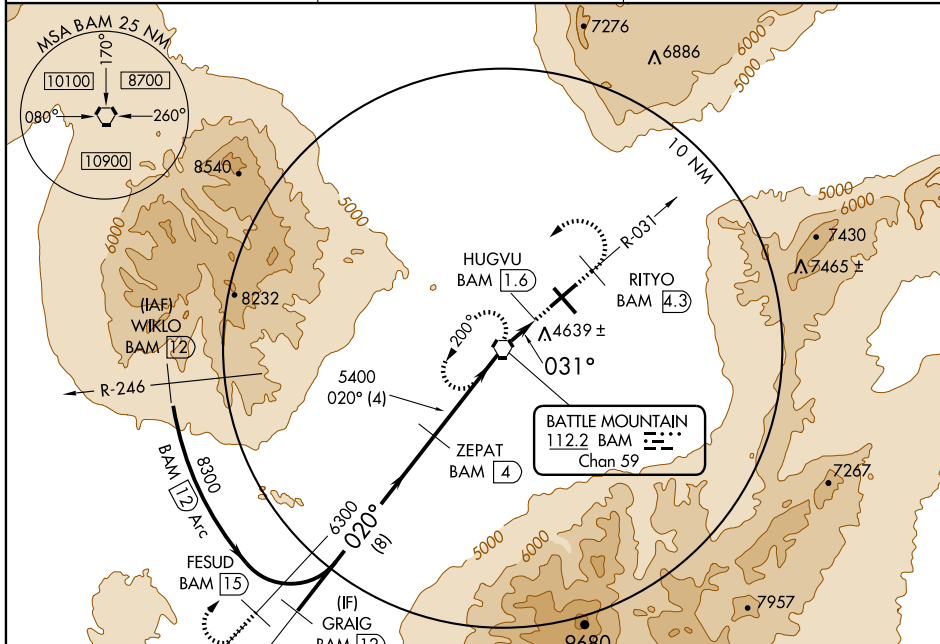
VOR/DME RWY 3

BATTLE MOUNTAIN (BAM)

VORTAC BAM 112.2 Chan 59	APP CRS 031°	Rwy Idg TDZE Apt Elev 7299 4531 4532
--	------------------------	---

NA	MISSED APPROACH: Climb to 10000 via BAM VORTAC R-031 to RITYO/BAM 4.3 DME and left turn direct BAM VORTAC and via BAM VORTAC R-205 to FESUD/BAM 15 DME and right turn direct BAM VORTAC and hold.
------------------	--

AWOS-3 119.45	SALT LAKE CITY CENTER 132.25 338.35	UNICOM 122.8 (CTAF) 0
-------------------------	---	---------------------------------



LAS VEGAS APP CON

125.025 282.2

LAS VEGAS TOWER

118.75 257.8 (Rwy 1L/19R, 1R/19L)

119.9 257.8 (Rwy 7L/25R, 7R/25L)

NORTH LAS VEGAS TOWER★

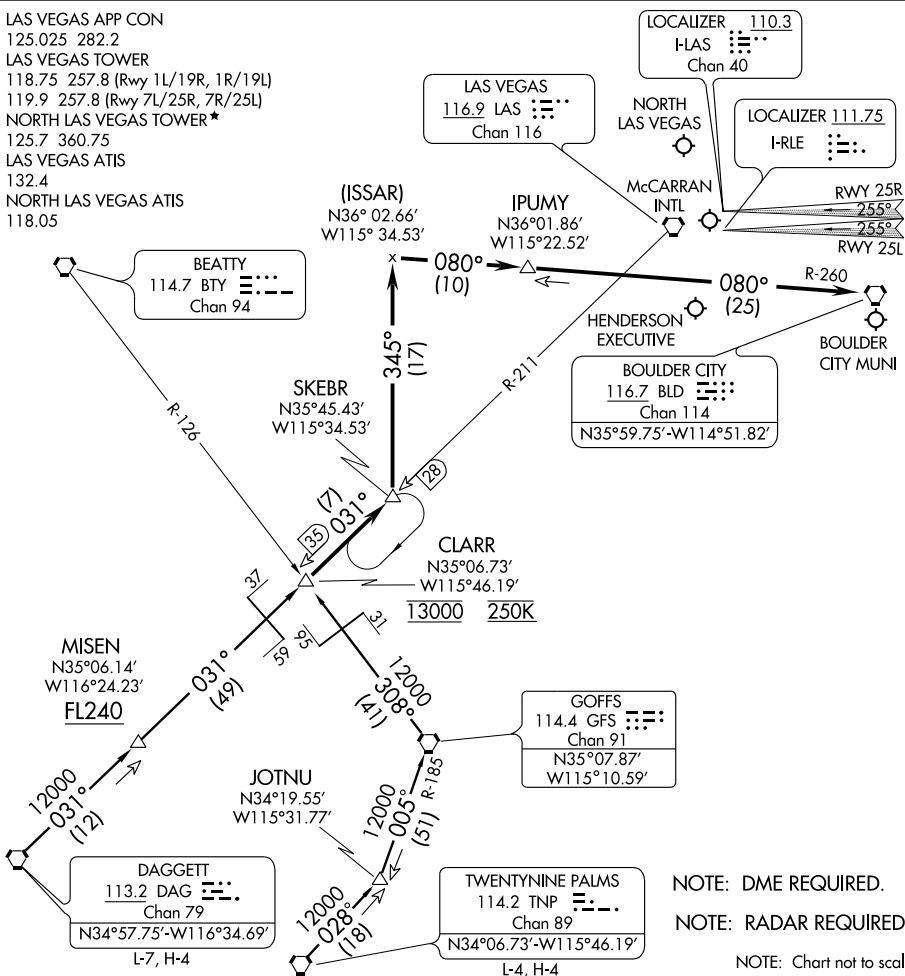
125.7 360.75

LAS VEGAS ATIS

1324

NORTH LAS VEGAS ATIS

118.05



NOTE: DME REQUIRED.

NOTE: RADAR REQUIRED.

NOTE: Chart not to scale.

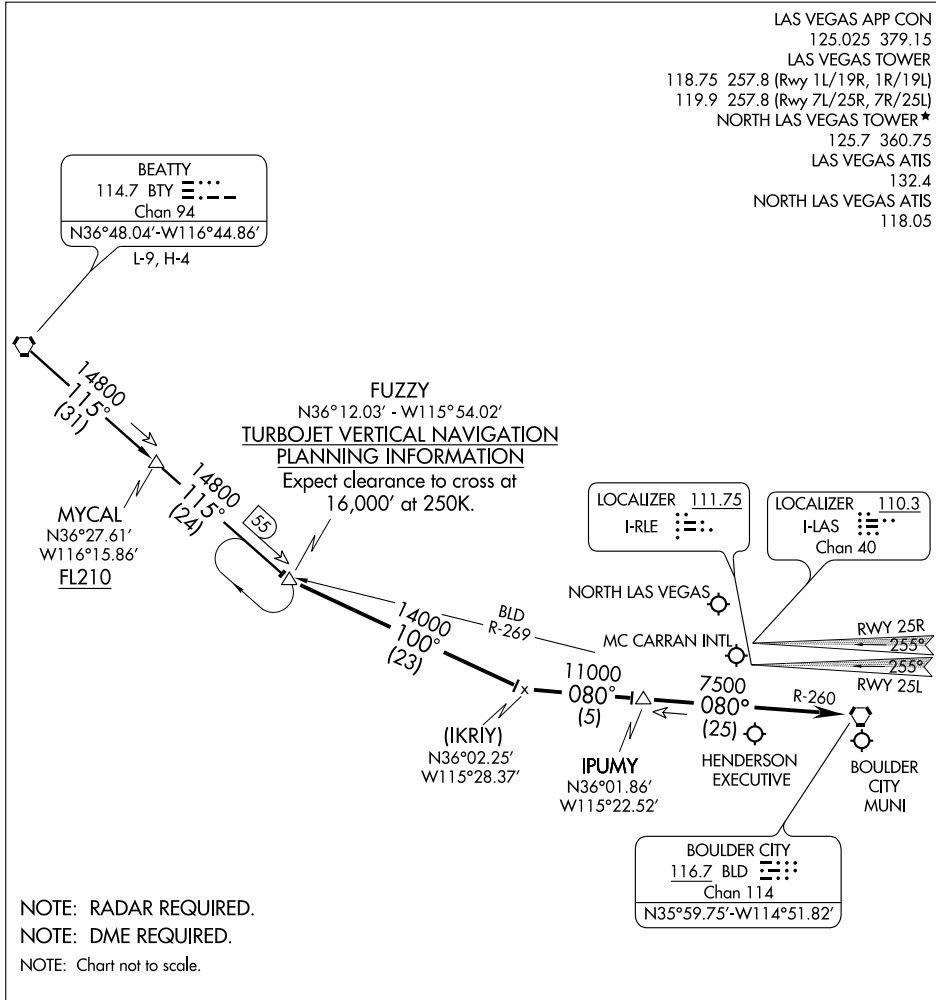
DAGGETT TRANSITION (DAG.CLARR2): From over DAG VORTAC via DAG R-031 and LAS R-211 to CLARR INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.CLARR2): From over TNP VORTAC via TNP R-028 to JOTNU INT, then via GFS R-185 to GFS VORTAC, then via GFS R-308 and BTY R-126 to CLARR INT. Thence. . . .

....From over CLARR INT via LAS R-211 to SKEBR INT. Thence. . .

LANDING MC CARRAN INTL: Via heading 345° to intercept the BLD R-260 to BLD VORTAC.
Rwys 1L/R, 7L/R, and 19L/R expect radar vectors for visual approach prior to BLD VORTAC.
Rwys 25L/R expect ILS approach procedure.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: After SKEBR INT expect radar vectors to airport.



BEATTY TRANSITION (BTY.FUZZY7): From over BTY VORTAC via BTY R-115 to FUZZY INT. Thence . . .
 . . . From over FUZZY via heading 100° to intercept BLD R-260 to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 1L/R, 7L/R, and 19L/R: Expect vectors for visual approach prior to BLD VORTAC.

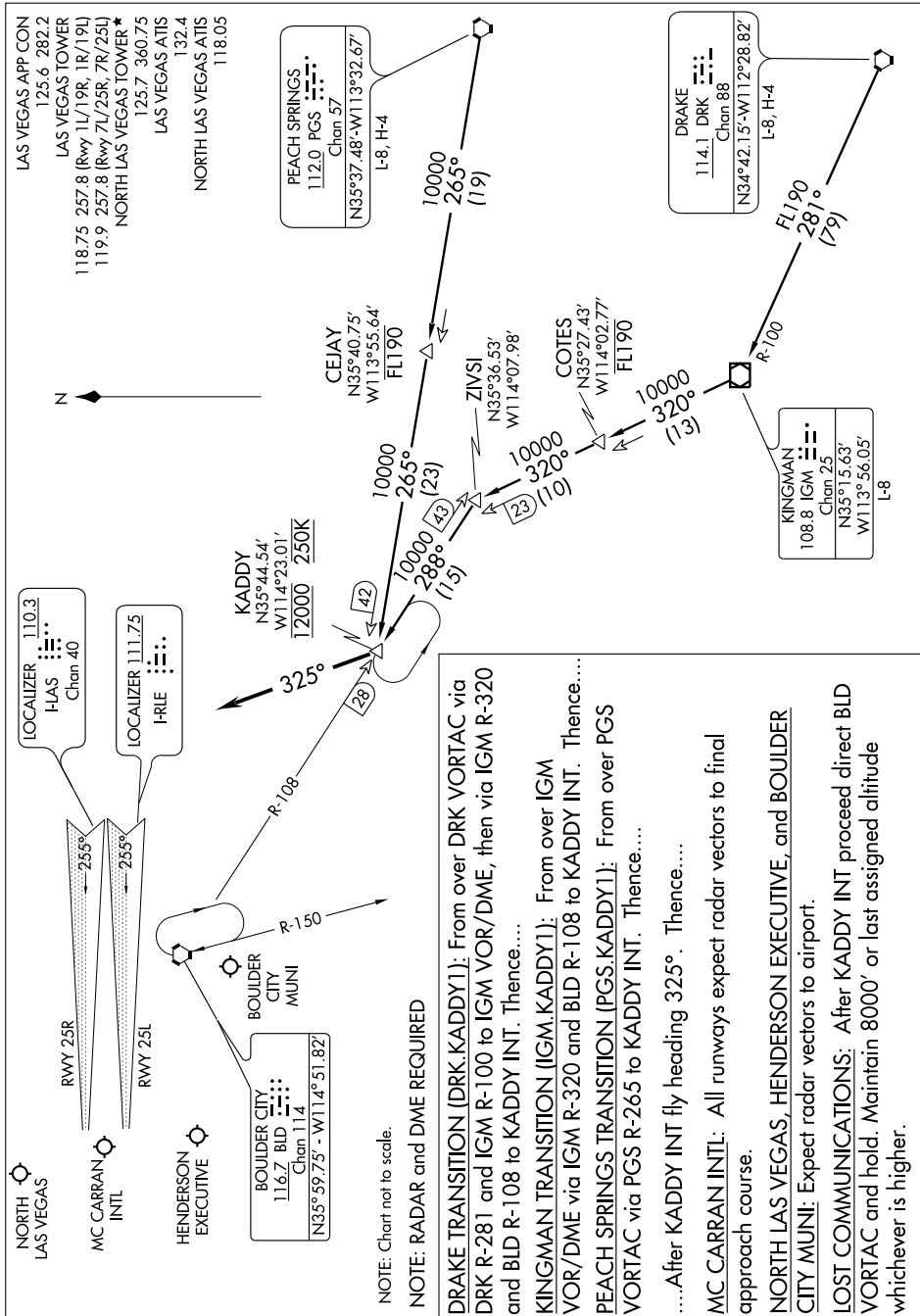
LANDING MC CARRAN INTL RWYS 25L/R: Expect ILS approach.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI :
 After IPUMY, expect radar vectors to airport.

KADDY ONE ARRIVAL

ST-662 (FAA)

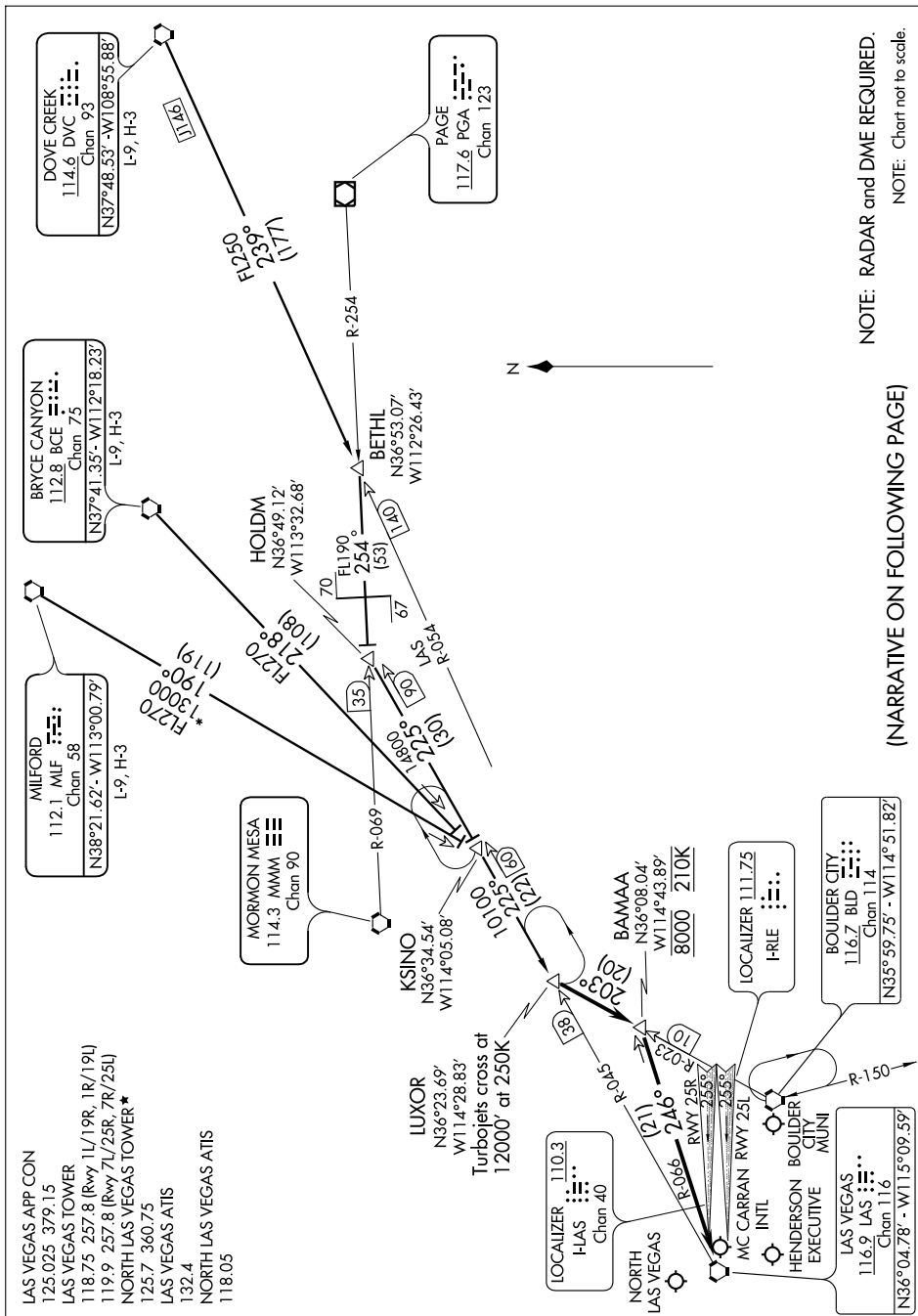
LAS VEGAS, NEVADA



LUXOR TWO ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA



(NARRATIVE ON FOLLOWING PAGE)

SW-4, 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

BETHL TRANSITION (BETHL.LUXOR2): From over BETHL INT via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

BRYCE CANYON TRANSITION (BCE.LUXOR2): From over BCE VORTAC via BCE R-218 and LAS R-045 to LUXOR INT. Thence. . . .

DOVE CREEK TRANSITION (DVC.LUXOR2): From over DVC VORTAC via DVC R-239 and LAS R-054 to BETHL INT, then via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

MILFORD TRANSITION (MLF.LUXOR2): From over MLF VORTAC via MLF R-190 and LAS R-045 to LUXOR INT. Thence. . . .

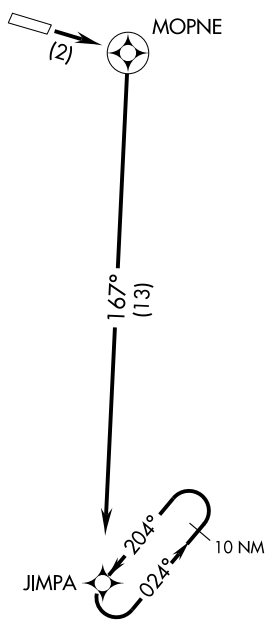
. . . .From over LUXOR INT via BLD R-023 to BAMAA INT, thence via LAS R-066 to LAS VORTAC. Thence. . . .

LANDING MC CARRAN INTL: All runways expect radar vectors to final approach course.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: Expect radar vectors to airport.

LOST COMMUNICATIONS: After LAS VORTAC proceed direct BLD VORTAC and hold. Maintain 8000' or last assigned altitude whichever is higher.

AWOS-3
119.925
RENO DEP CON
119.2 279.55



TAKE-OFF MINIMUMS

Rwy 9: Standard with minimum climb of 528 feet per NM to 11400 feet.
Rwy 27: NA - Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

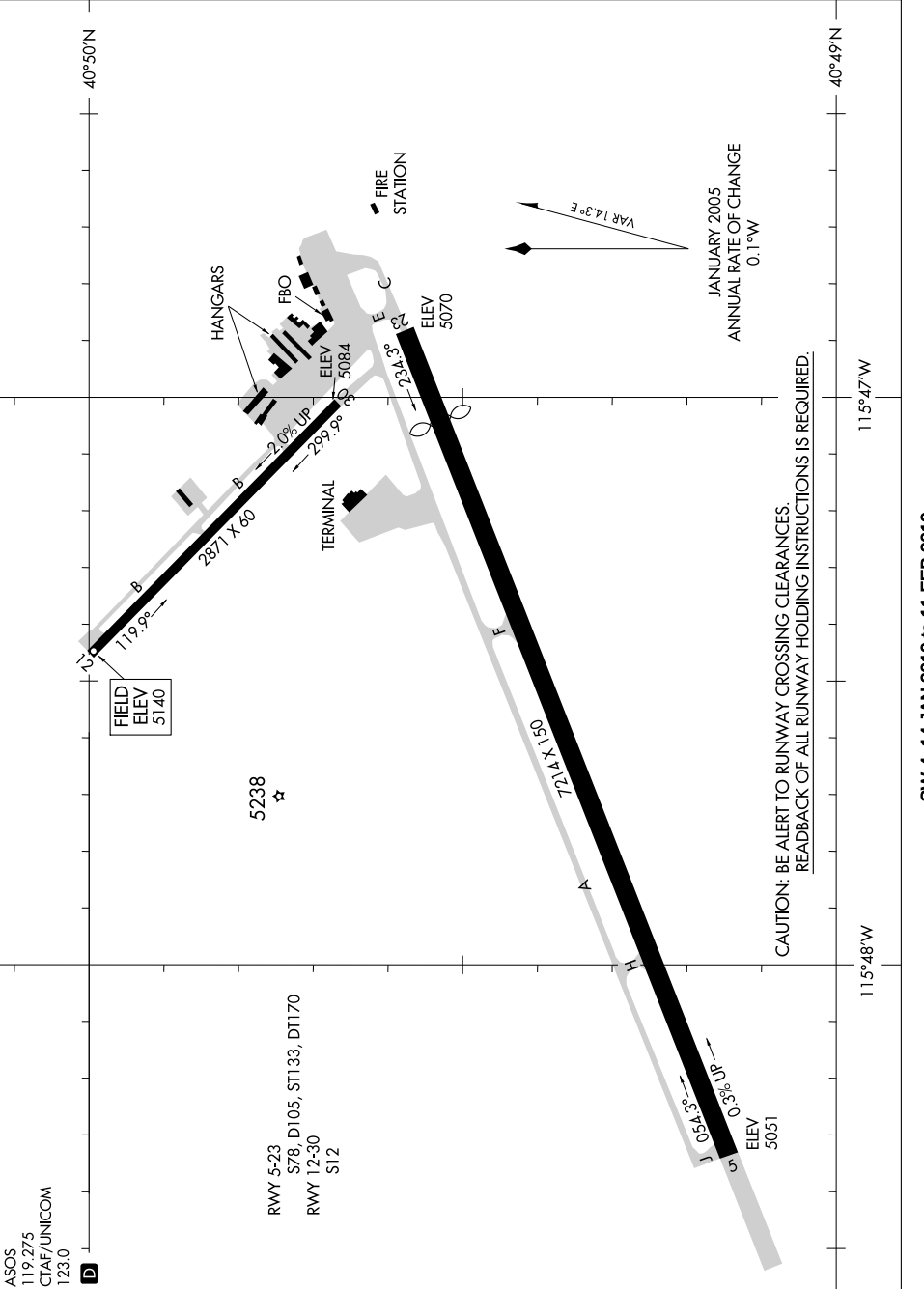
TAKE-OFF RWY 9: Climb direct MOPNE, then via 167° track to JIMPA.
Continue climb-in-hold to 15000 before proceeding on course.

SW-4, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-129 (FAA)

ELKO RGNL (EKO)
ELKO, NEVADA

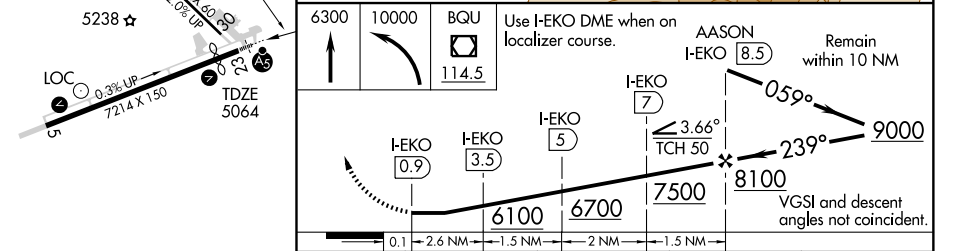
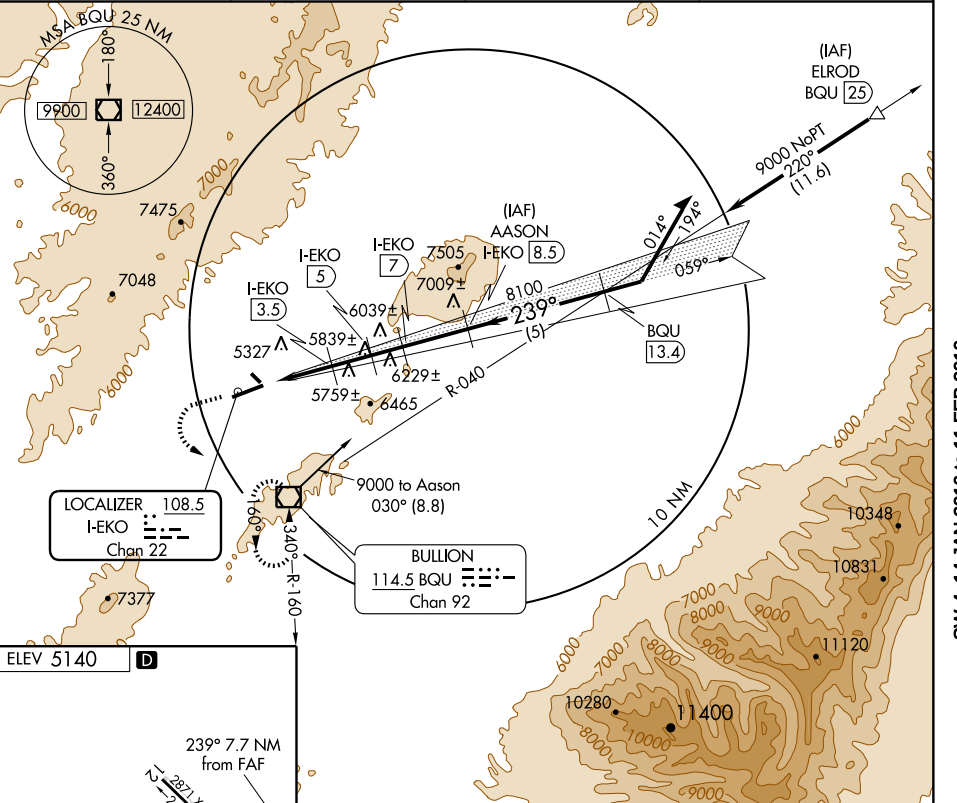


Inoperative table does not apply to Cat. A and B.

MALSR

MISSED APPROACH: Climb to 6300 then climbing left turn to 10000 direct BQU VOR/DME and hold.

ASOS 119.275	SALT LAKE CENTER 132.25 338.35	UNICOM 123.0 (CTAF)	122.7 0
-----------------	-----------------------------------	------------------------	----------------



CATEGORY	A	B	C	D
S-23	5660-1 596 (600-1)			5660-1¼ 596 (600-1¼)
CIRCLING	6020-1 880 (900-1)	6020-1¼ 880 (900-1¼)	6140-3 1000 (1000-3)	6220-3 1080 (1100-3)

MIRL Rwy 5-23 **0**

SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS

241°

Rwy Idg

6410

TDZE

5064

Apt Elev

5140

T

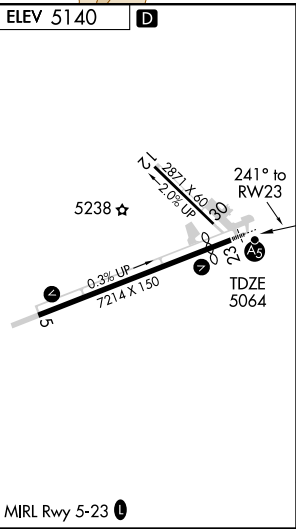
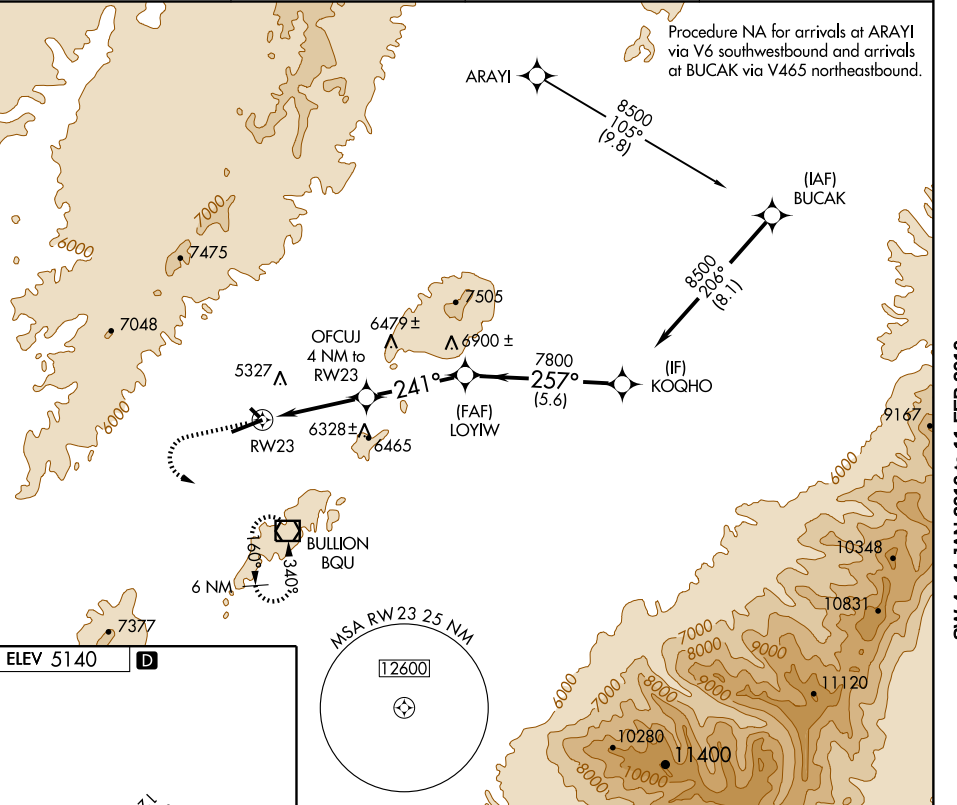
A

Inoperative table does not apply.
DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 6600 then climbing left turn to 10000 direct BQU VOR/DME and hold.

ASOS	SALT LAKE CENTER	UNICOM	
119.275	132.25 338.35	123.0 (CTAF)	122.7 0



6600 ↑		10000 ↷		BQU □		VGSI and descent angles not coincident.		LOYIW		KQQHO	
		RW23 ↷		≤ 3.50° TCH 50		241°		7800		8500	
		4 NM		3.6 NM		5.6 NM				Procedure Turn NA	
CATEGORY		A		B		C		D			
LNAV MDA		6500-1¼ 1436 (1400-1¼)		6500-1½ 1436 (1400-1½)		6500-3		1436 (1400-3)			
CIRCLING		6500-1¼ 1360 (1400-1¼)		6500-1½ 1360 (1400-1½)		6500-3		1360 (1400-3)			

VOR/DME BQU 114.5 Chan 92	APP CRS 324°	Rwy Idg N/A TDZE N/A Apt Elev 5140
---	------------------------	---

VOR-A
ELKO RGNL (EKO)



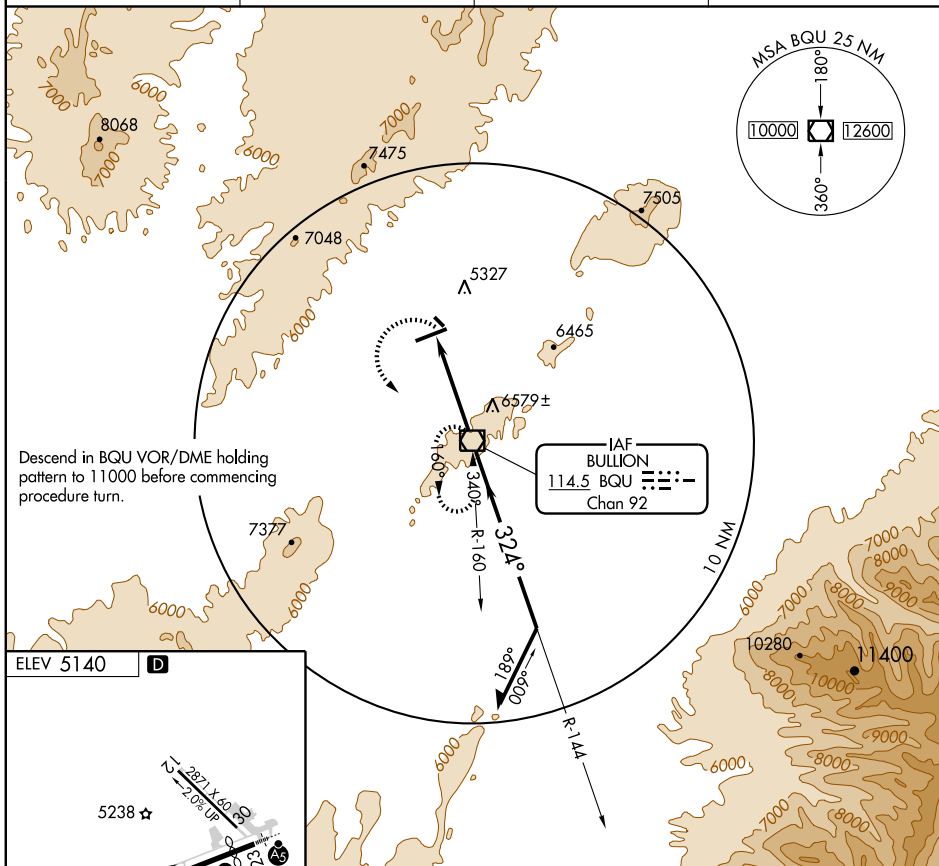
MISSED APPROACH: Climbing left turn to 10000 direct BQU VOR/DME and hold.

ASOS
119,275

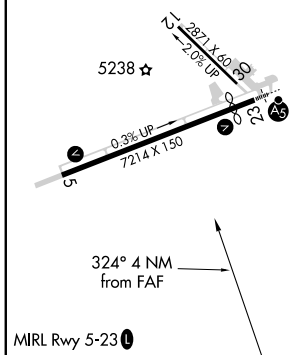
SALT LAKE CENTER
132.25 338.35

UNICOM
123.0 (CTAF)

122.7 L



ELEV 5140



10000	BQU
	
	114.5

VOR/DME

Remain
within 10 NM

8900

7500

CATEGORY

A

B

D

CIRCLING

6580-1¼
1440 (1500-1¼)

6580-1½
440 (1500-1½)

6580-3 1440 (1500-3)

ELKO, NEVADA

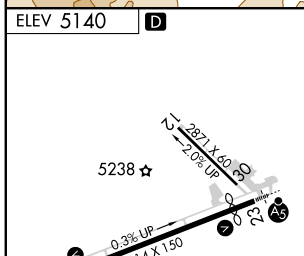
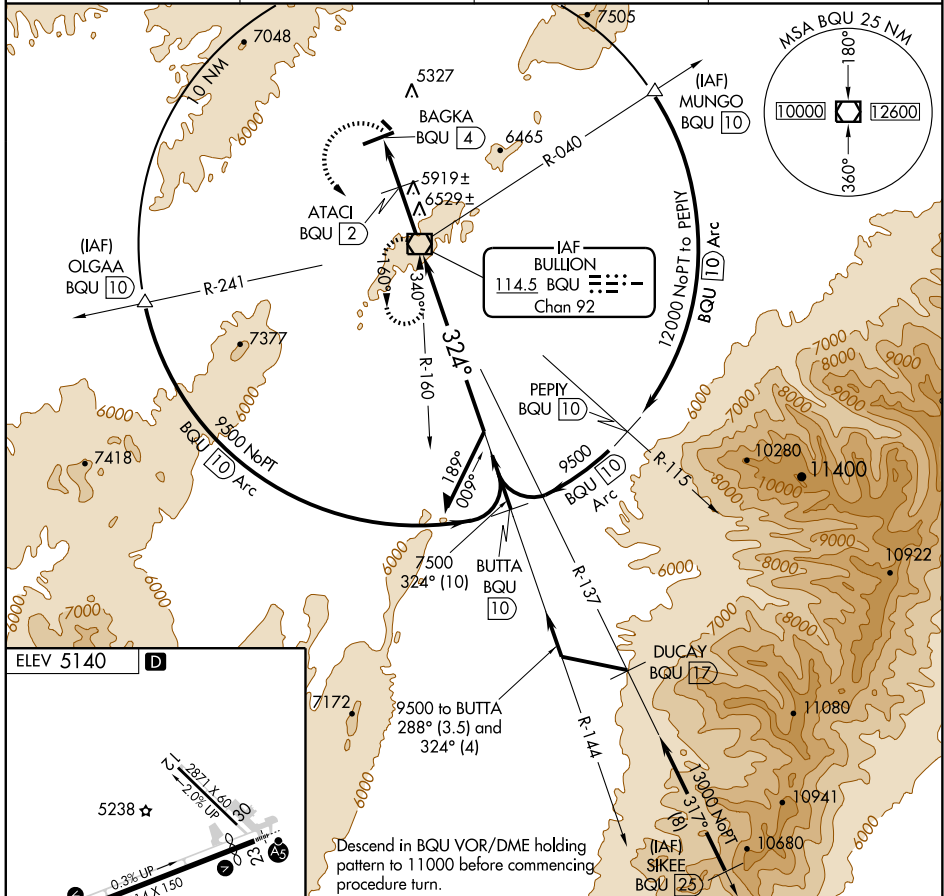
AL-129 (FAA)

VOR/DME BQU 114.5 Chan 92	APP CRS 324°	Rwy Idg TDZE Apt Elev	N/A N/A 5140
---	------------------------	-----------------------------	---

VOR/DME-B
ELKO RGNL (EKO)

 	MISSED APPROACH: Climbing left turn to 10000 direct BQU VOR/DME and hold.
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ASOS 119.275	SALT LAKE CENTER 132.25 338.35	UNICOM 123.0 (CTAF)	122.7
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Descend in BQU VOR/DME holding pattern to 11000 before commencing procedure turn.			
10000	BQU 114.5	VOR/DME	Remain within 10 NM
	ATACI BQU 2	144°	9500
	BAGKA BQU 4	324°	7500
	6860	2 NM	2 NM
CATEGORY	A	B	C D
CIRCLING	6260-1½ 1120 (1200-1½)	6260-1½ 1120 (1200-1½)	6260-3 1120 (1200-3)

MIRL Rwy 5-23

SW-4, 14 JAN 2010 to 11 FEB 2010

▼

DME/DME RNP- 0.3 NA.

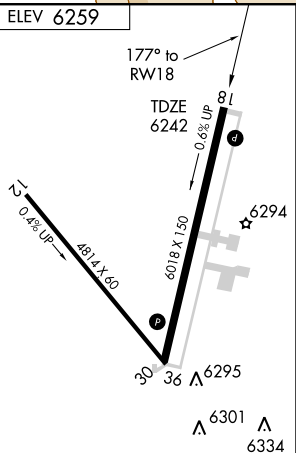
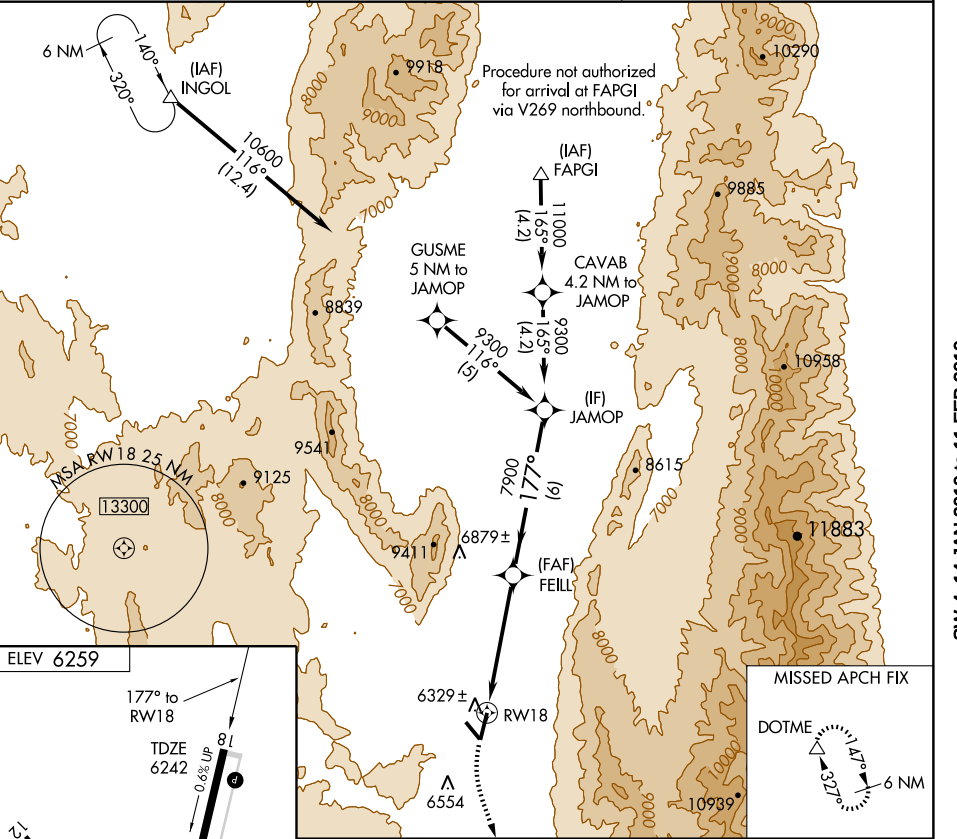
▲

NA

Circling NA southwest of Rwys 12 and 36.
Straight in minimums NA at night.

MISSED APPROACH: Climbing left turn to 12000 direct
DOTME WP and hold.

ASOS 120.625	SALT LAKE CENTER 133.45 317.625	UNICOM 122.8 (CTAF) 1
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REIL Rwy 18-36 1

MIRL Rwys 12-30 and 18-36 1

CATEGORY	A		B		C		D	
	7540-1¼ 1298 (1300-1¼)		7540-1½ 1298 (1300-1½)		7540-3		1298 (1300-3)	
CIRCLING	7540-1¼ 1281 (1300-1¼)		7540-1½ 1281 (1300-1½)		7540-3		1281 (1300-3)	

VOR/DME ELY 110.6 Chan 43	APP CRS 109°	Rwy Idg TDZE Apt Elev 6259	N/A N/A
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VOR-A

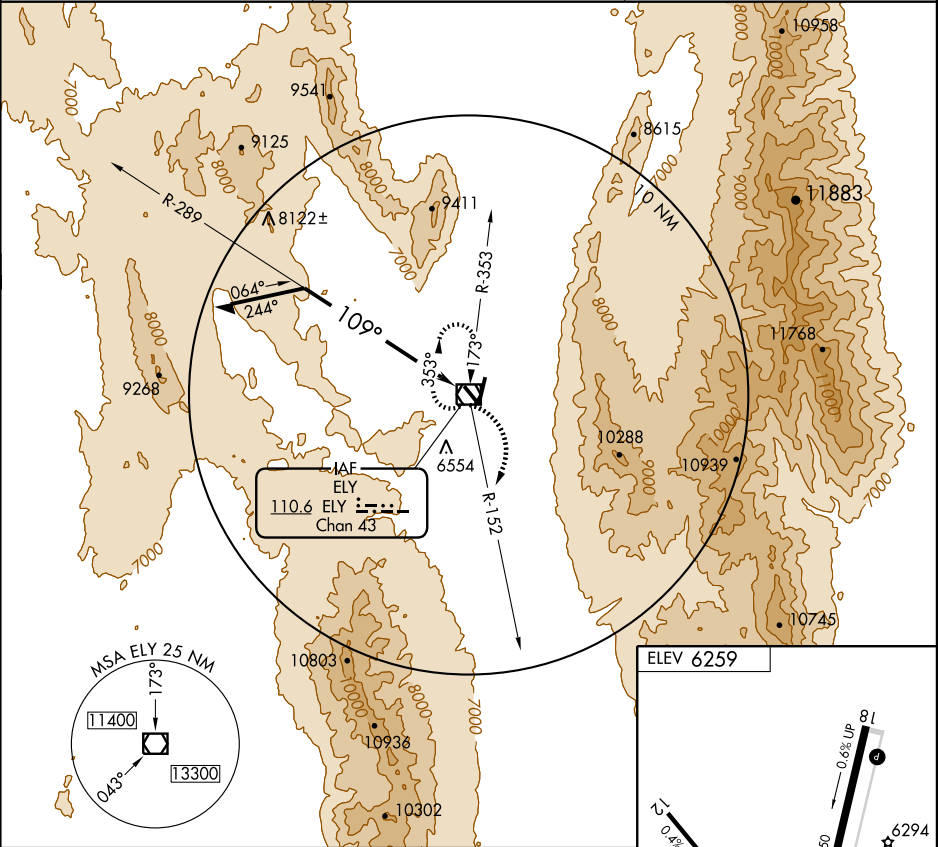
ELY AIRPORT-YELLAND FIELD (ELY)

▼

▲ NA

MISSED APPROACH: Climbing right turn to 10800 via ELY R-152, then climbing left turn to 12000 direct ELY VOR/DME and hold.

ASOS 120.625	SALT LAKE CENTER 133.45 317.625	UNICOM 122.8 (CTAF) 0
------------------------	---	---------------------------------



Remain within 10 NM

10900

289°

109°

* VOR/DME

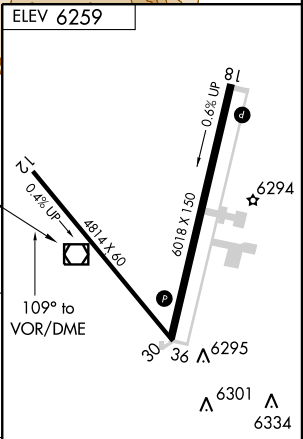
10800

12000

ELY R-152

ELY 110.6

* Maintain 12000 or above until established outbound for procedure turn.



CATEGORY	A	B	C	D
CIRCLING	9400-1¼ 3141 (3200-1¼)	9400-1½ 3141 (3200-1½)	9400-3	3141 (3200-3)

REIL Rwys 18-36 0

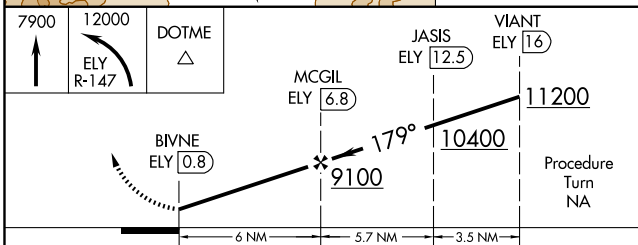
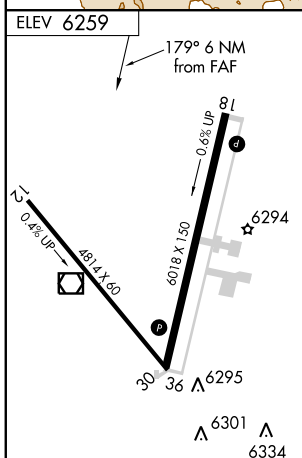
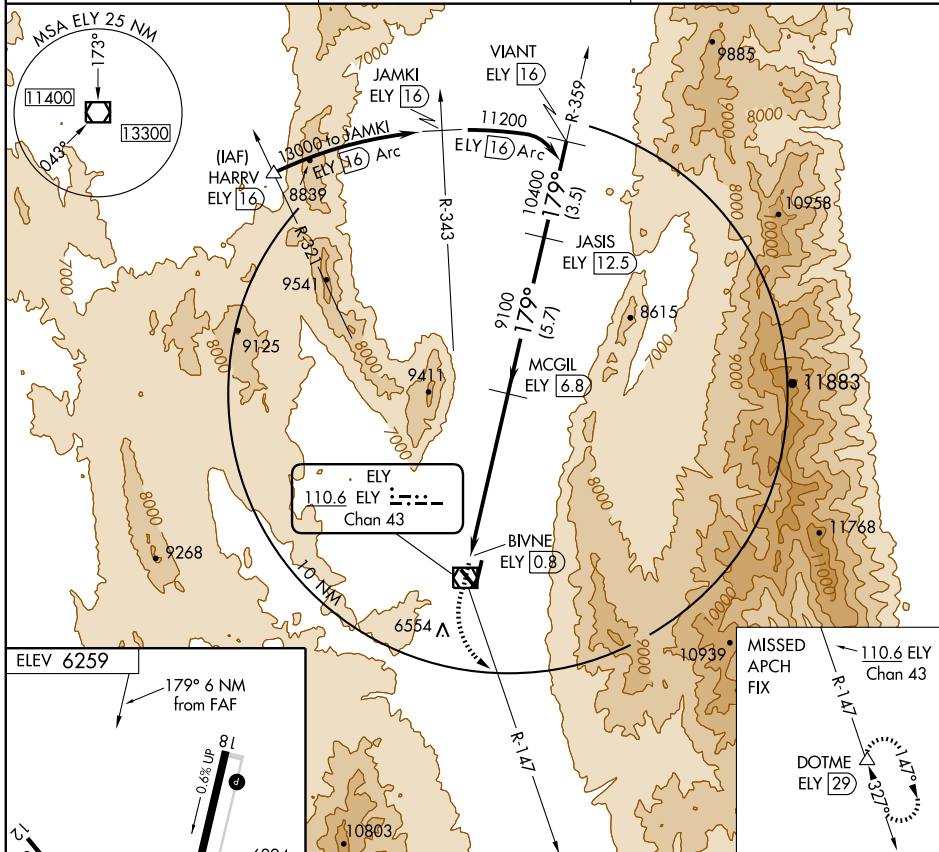
MRL Rwys 12-30 and 18-36 0

VOR/DME ELY 110.6 Chan 43	APP CRS 179°	Rwy Idg TDZE Apt Elev	N/A N/A 6259
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NA Circling not authorized southwest of Rwy 12 and 36.

MISSED APPROACH: Climb to 7900 then climbing left turn to 12000 via R-147 to DOTME/ELY 29 DME and hold.

ASOS 120.625	SALT LAKE CENTER 133.45 317.625	UNICOM 122.8 (CTAF)
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REIL Rwy 18-36
MIRL Rwy 12-30 and 18-36

CATEGORY	A	B	C	D
CIRCLING	7620-1¼ 1361 (1400-1¼)	7620-1½ 1361 (1400-1½)	7620-3 1361 (1400-3)	

▲

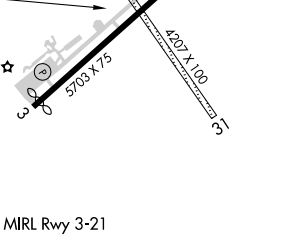
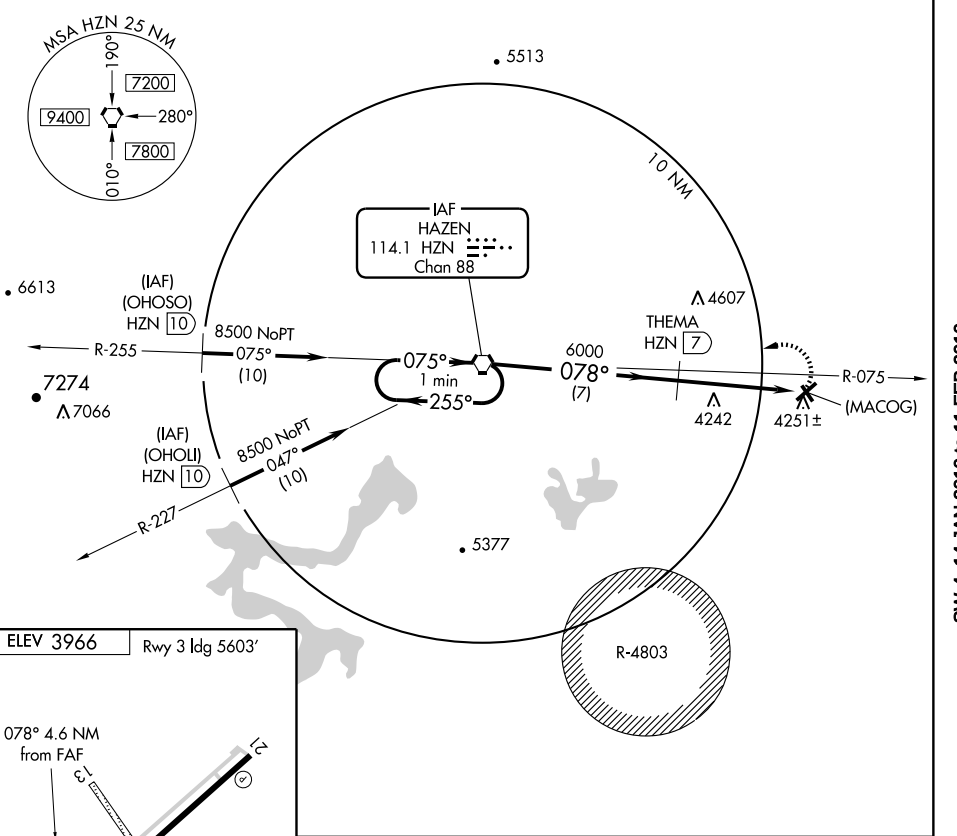
Use NAS Fallon altimeter setting; when not available, procedure not authorized.

▲ NA

Contact Fallon Approach Control for approach clearance, if unable contact Oakland ARTCC.

MISSED APPROACH: Climbing left turn to 8500 via R-075 to HZN VORTAC and hold, continue climb-in-hold to 8500.

NAVY FALLON APP CON ★ 120.85 360.2	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF)
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Knots	60	90	120	150	180
Min:Sec					

CATEGORY	A	B	C	D
CIRCLING	4580-1	614 (700-1)	4580-1¼ 614 (700-1¾)	4580-2 614 (700-2)

ATIS ★
370.925
NAVY FALLON TOWER ★
119.25 340.2
GND CON
251.15
CLNC DEL
353.55

COMBAT AIRCRAFT
LOADING AREA

118°43'W

118°42'W

118°41'W

AUGUST 2009
ANNUAL RATE OF CHANGE
0.1° W



FUEL PITS

HANGAR 1

HANGAR 2

CRASH HOUSE

BASE OPS

HANGAR 3

HANGAR 4

CONTROL TOWER

HANGAR 5

HANGAR

TERMINAL

RWY 7-25
PCN 44 R/D/W/T
RWY 13L-31R
PCN 70 R/C/W/T
RWY 13R-31L
PCN 45 R/C/W/T

39°25'N

39°24'N

800 x 154

ELEV 3929

7004 x 154

ELEV 3927

500 x 154

ELEV 3927

ELEV 3926

4096

A

SW-4, 14 JAN 2010 to 11 FEB 2010

TACAN NFL Chan 82	APCH CRS 139°	Rwy Idg 14,005 TDZE 3934 Arpt Elev 3934
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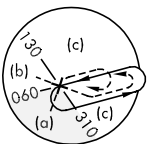
JAL-143 [USN]

FALLON NAS (VAN VOORHIS FLD) (KNFL)



* MISSED APPROACH: Turn left, climb to 9000 on NFL TACAN R-115 to 20 DME (MUFIT).

ATIS ★ 370.925	NAVY FALLON APP CON 120.85 360.2	NAVY FALLON TOWER★ 119.25 340.2	GND CON 251.15	CLNC DEL 353.55	ASR/PAR
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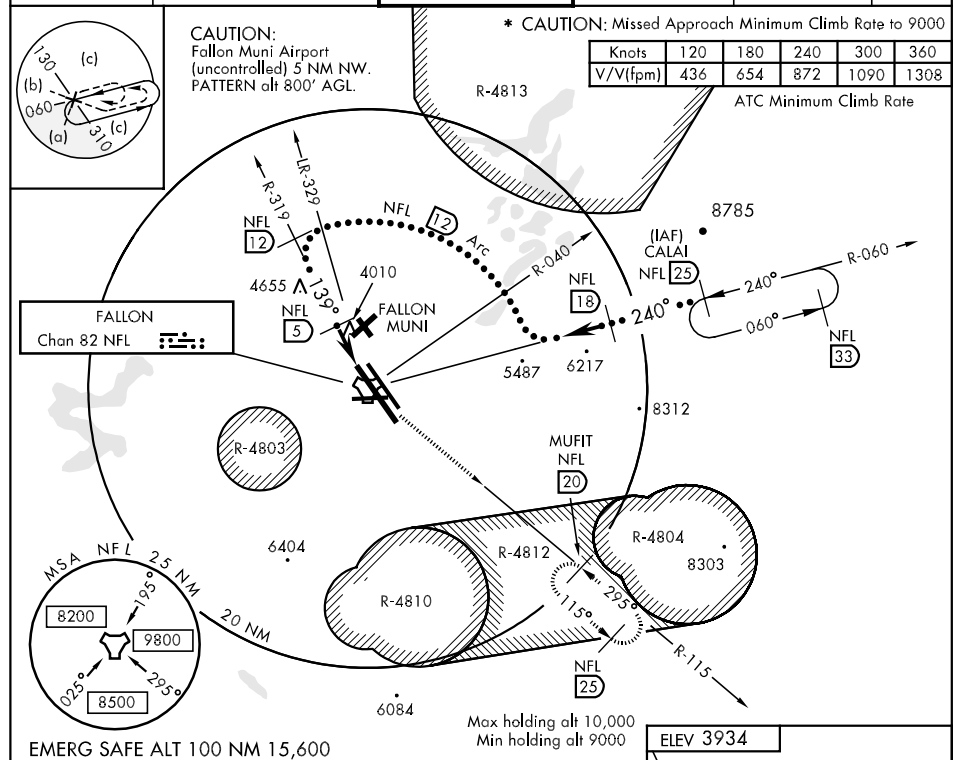
CAUTION:

Fallon Muni Airport
(uncontrolled) 5 NM NW.
PATTERN alt 800' AGL.

* **CAUTION:** Missed Approach Minimum Climb Rate to 9000

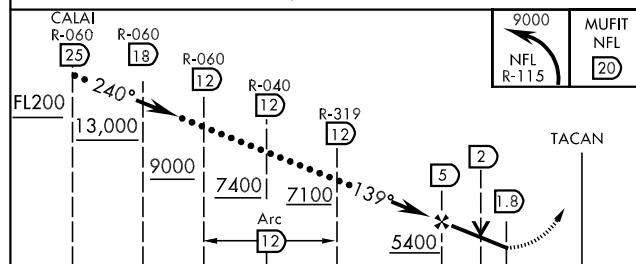
Knots	120	180	240	300	360
V/V(fpm)	436	654	872	1090	1308

ATC Minimum Climb Rate

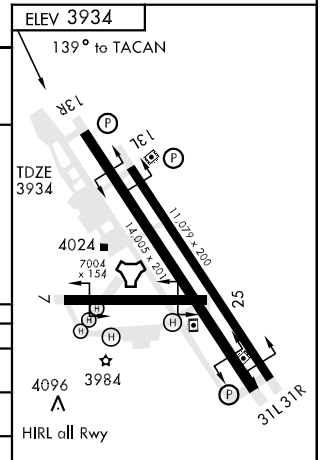


EMERG SAFE ALT 100 NM 15,600

Max holding alt 10,000
Min holding alt 9000



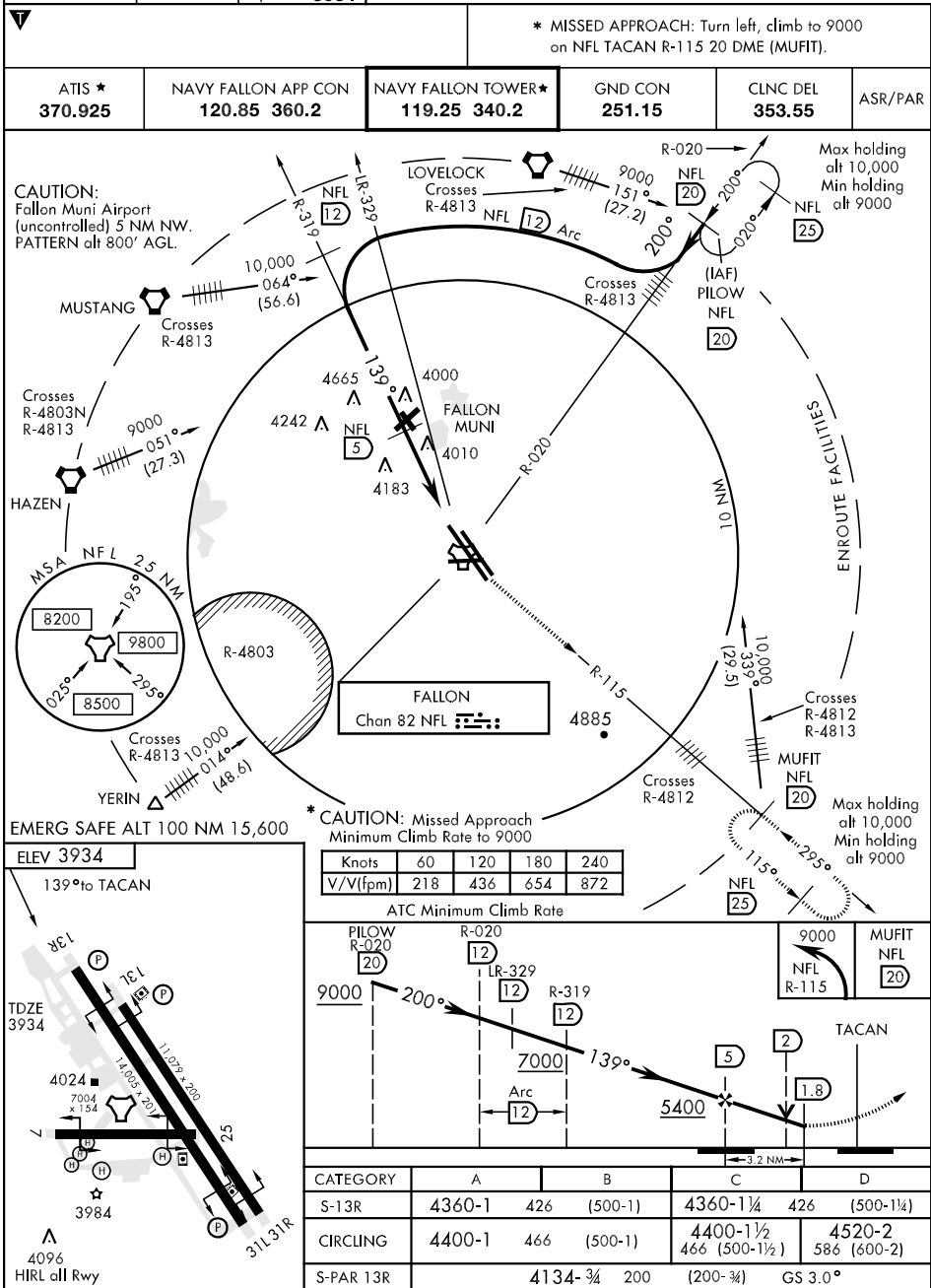
CATEGORY	C	D	E
S-13R	4360-1¼ 426	(500-1¼)	4360-1½ 426 (500-1½)
CIRCLING	4400-1½ 466 (500-1½)	4520-2 586 (600-2)	4980-3 1046 (1100-3)
S-PAR 13R	4134-¾ 200	(200-¾)	GS 3.0



TACAN NFL Chan 82	APCH CRS 139°	Rwy Idg 14,005 TDZE 3934 Arpt Elev 3934
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AL-143 [USN]

FALLON NAS (VAN VORRHIS FLD) (KNFL)



FALLON, NEVADA

39°25'N-118°42'W FALLON NAS (VAN VOORHIS FLD) (KNFL)

09267

TAGANLILIM 105

TACAN NFL	APCH CRS	Rwy Idg	31L 14,005	31R 11,079
Chan 82	295°	TDZE	31L 3926	31R 3928
		Arpt Elev	3934	

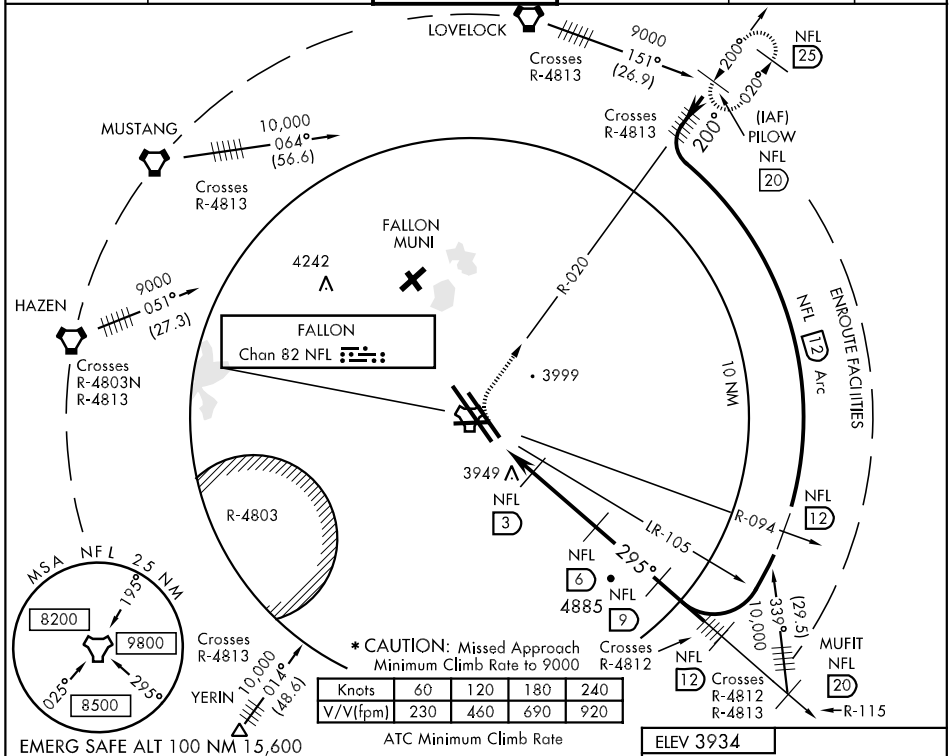
AL-143 [USN]

FALLON NAS (VAN VOORHIS FLD) (KNFL)

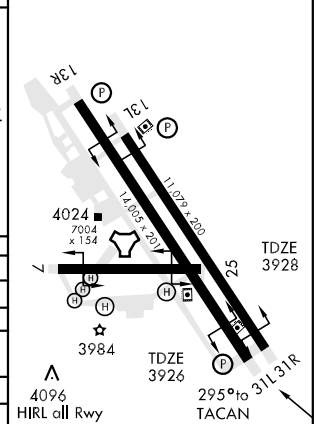
ATIS ★ 370.925		NAVY FALLON APP CON 120.85 360.2		NAVY FALLON TOWER★ 119.25 340.2	
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* MISSED APPROACH: Climbing right turn to 9000
on NFL TACAN R-020 to 20 DME (PILOW)

GND CON 251.15		CLNC DEL 353.55		ASR/PAR	
---	--	--	--	-----------------------	--



CATEGORY	A	B	C	D
S-31L	4200-1	274	(300-1)	
S-31R	4200-1	272	(300-1)	
CIRCLING	4400-1	466 (500-1)	4400-1½ 466 (500-1½)	4520-2 586 (600-2)
S-PAR 31L	4126-¾	200	(200-¾)	GS 3.5°
S-PAR 31R	4128-¾	200	(200-¾)	GS 3.5°



TACAN NFL APCH CRS Rwy Idg 31L **14,005** 31R **11,079**
 Chan **82** **295°** TDZE 31L **3926** 31R **3928**
 Arpt Elev **3934**

AL-143 [USN] FALLON NAS (VAN VOORHIS FLD) (KNFL)

* MISSED APPROACH: Climbing right turn to 9000
 on NFL TACAN R-020 to 20 DME (PILOW).

ATIS ★
370.925

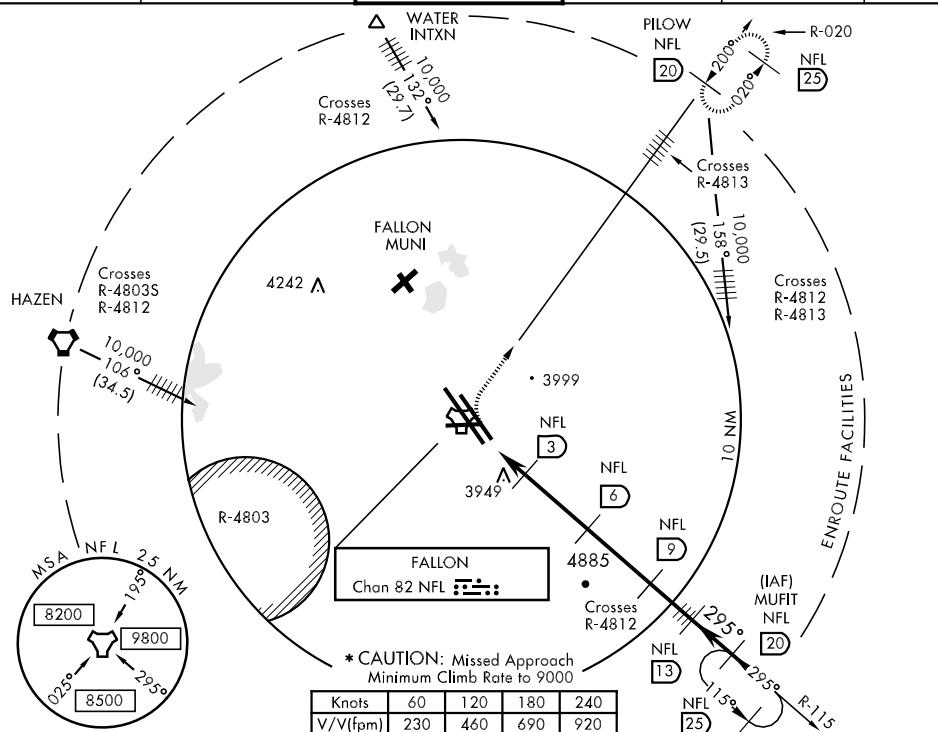
NAVY FALLON APP CON
120.85 360.2

NAVY FALLON TOWER ★
119.25 340.2

GND CON
251.15

CLNC DEL
353.55

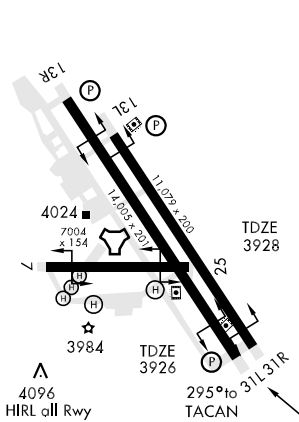
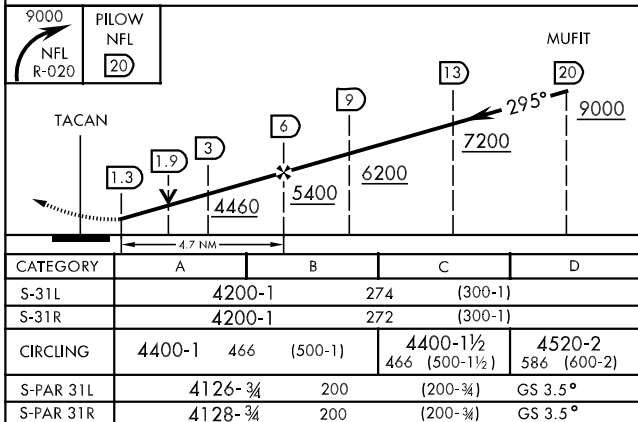
ASR/PAR



EMERG SAFE ALT 100 NM 15,600

ATC Minimum Climb Rate

ELEV 3934

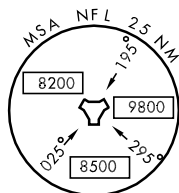


ATIS ★
370.925
CLINC DEL
353.55
GND CON
251.15
NAVY FALLON TOWER ★
119.25 340.2
NAVY FALLON APP/DEP CON
120.85 360.2

LAKEVIEW
112.0 LKV
Chan 57
N42°29.57'
W120°30.43'
L-11, H-3

LOVELOCK
116.5 LLC
Chan 112
N40°07.49'
W118°34.66'
L-9-11, H-3

MUSTANG
117.9 FMG
Chan 126
N39°31.88'
W119°39.36'
L-9, H-3



HAZEN
114.1 HZN
Chan 88
N39°30.99'
W118°59.86'
L-9, H-3

WATER
N39°36.99'
W118°43.38'

FALLON
Chan 82 NFL
N39°25.01'
W118°42.31'

Rwy	Knots	60	120	180	240	300	360
* 7	(a) V/V(fpm)	255	510	765	1020	1275	1530
† 7/25	(b) V/V(fpm)	210	420	630	840	1050	1260
† 31L/R	(c) V/V(fpm)	270	540	810	1080	1350	1620

* Minimum Military and Civil

† ATC Climb Rate

(a) To 4900.

(b) MUSTANG TRANSITION to 9000.

(c) HAZEN TRANSITION to 9000.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 7: Turn left heading 310° to join and fly NFL R-340 to WATER.
(Right turn-out not authorized)

TAKE-OFF RWY 13L/R: Climb on runway heading to NFL 2.5 DME, turn right to join and fly NFL R-190 to NFL, NFL R-340 to WATER.

TAKE-OFF RWY 25: Turn right heading 010° to join and fly NFL R-340 to WATER.
(Left turn-out not authorized.)

TAKE-OFF RWY 31L/R: Climb on runway heading to NFL 1.5 DME, turn right to join and fly NFL R-340 to WATER.

(CONTINUED NEXT PAGE)

(CONTINUED FROM PRECEEDING PAGE)

DEPARTURE ROUTE DESCRIPTION

HAZEN TRANSITION (WATER4•HZN): Fly HZN R-048 to HZN. Cross HZN R-048/6 DME at or above 9000.

LAKEVIEW TRANSITION (WATER4•LKV): Turn left heading 290° to join and fly NFL R-321/LKV R-137 to LKV. (Jet route structure only).

LOVELOCK TRANSITION (WATER4•LLC): Fly NFL R-340 and LLC R-219 to LLC.

MUSTANG TRANSITION (WATER4•FMG): Fly FMG R-067 to FMG. Cross the FMG R-067/36 DME at or above 9000.

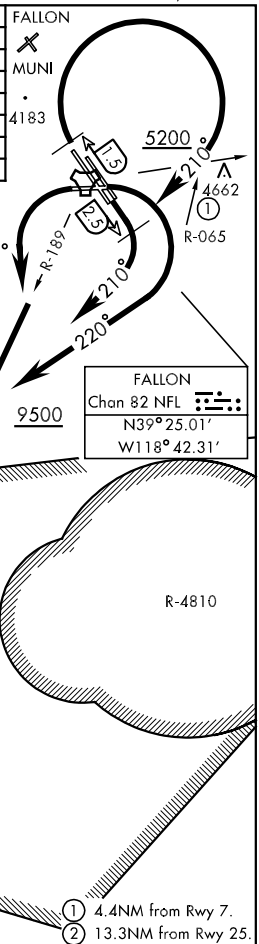
SW-4, 14 JAN 2010 to 11 FEB 2010

ATIS ★
370.925
CLNC DEL
353.55
GND CON
251.15
NAVY FALLON TOWER ★
119.25 340.2
NAVY FALLON APP/DEP CON
120.85 360.2

Rwy	Knots	60	120	180	240	300	360
* 7 (A) V/V(fpm)		255	510	765	1020	1275	1530
* 7 (B) V/V(fpm)		360	720	1080	1440	1800	2160
* 13L/R (A) V/V(fpm)		245	490	735	980	1225	1470
* 13L/R (B) V/V(fpm)		485	970	1455	1940	2425	2910
* 25 (A) V/V(fpm)		250	500	750	1000	1250	1500
* 25 (B) V/V(fpm)		355	710	1065	1420	1775	2130
* 31L/R (A) V/V(fpm)		235	470	705	940	1175	1410
* 31L/R (B) V/V(fpm)							

* Minimum Military and Civil

† ATC Climb Rate



EMERG SAFE ALT 100NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 7: Turn right heading 220° to join and fly NFL R-189 to YERIN. Cross 9 DME at or above 9500. (Left turn-out not authorized).

TAKE-OFF RWY 13L/R: Climb on runway heading to NFL 2.5 DME, turn right heading 210° to join and fly NFL R-189 to YERIN. Cross 9 DME at or above 9500.

TAKE-OFF RWY 25: Turn left heading 160° to join and fly NFL R-189 to YERIN. Cross 9 DME at or above 9500. (Right turn-out not authorized).

TAKE-OFF RWY 31L/R: Climb on runway heading to NFL 1.5 DME, turn right heading 210° to join and fly NFL R-189 to YERIN. Cross NFL R-065 at or above 5200. Cross 9 DME at or above 9500.

AIRPORT DIAGRAM

AL-6514 (FAA)

LAS VEGAS/HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA

ATIS 120.775

HENDERSON TOWER ★

125.1

GND CON

127.8

35°59.0'N

TERMINAL

ELEV
2402

17L

1.4% UP

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ELEV
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JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

35°58.5'N

RWY 17L-35R
S30, D30
RWY 17R-35L
S30, D60

5001 X 75

6501 X 100

CONTROL
TOWER

ELEV
2475

35R

35°58.0'N

347.6°

347.6°

347.6°

347.6°

347.6°

347.6°

347.6°

347.6°

347.6°

347.6°

347.6°

FIELD
ELEV
2492

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

115°08.5'W

115°08.0'W

115°07.5'W

SW-4, 14 JAN 2010 to 11 FEB 2010

LAS VEGAS APP CON

125.025 282.2

LAS VEGAS TOWER

118.75 257.8 (Rwy 1L/19R, 1R/19L)

119.9 257.8 (Rwy 7L/25R, 7R/25L)

NORTH LAS VEGAS TOWER★

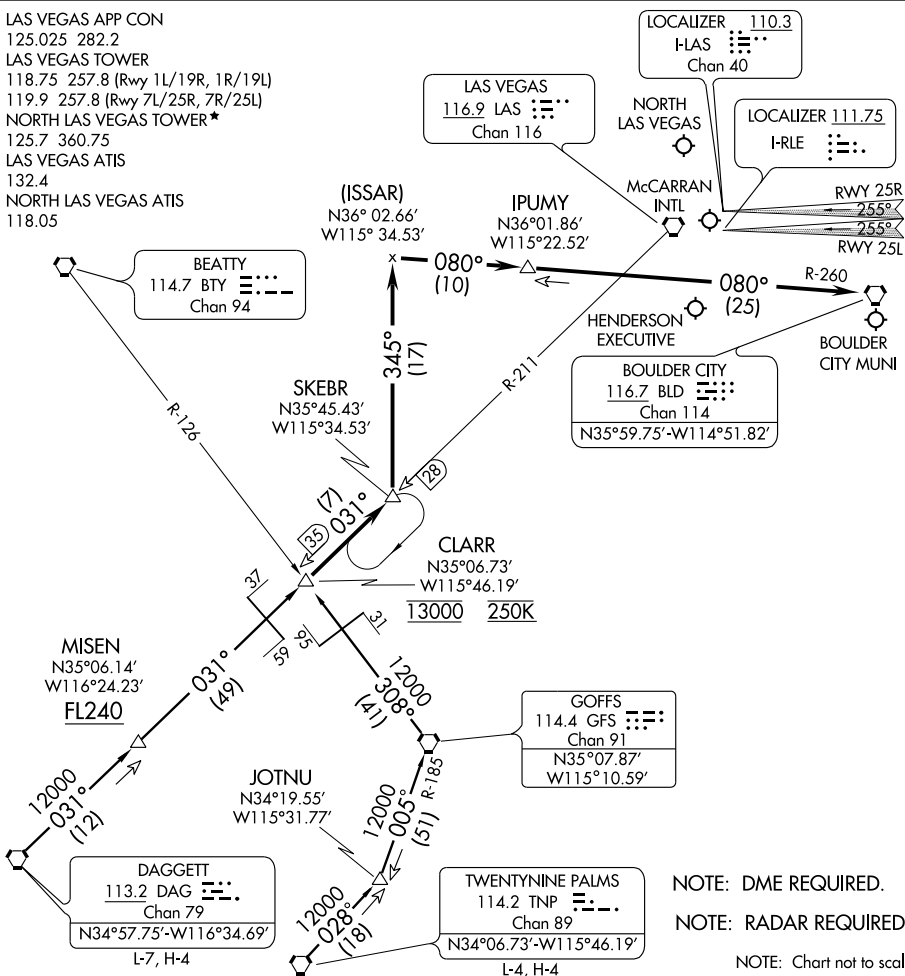
125.7 360.75

LAS VEGAS ATIS

1324

NORTH LAS VEGAS ATIS

118.05



NOTE: DME REQUIRED.

NOTE: RADAR REQUIRED.

NOTE: Chart not to scale.

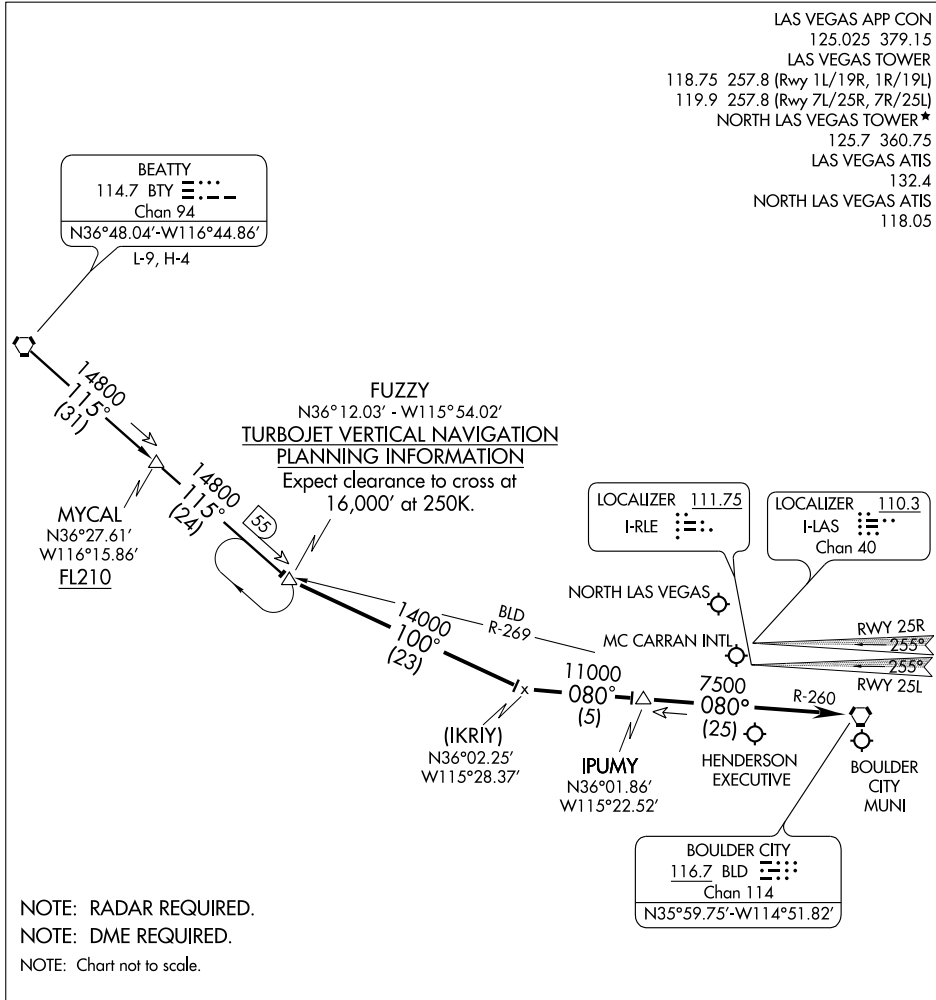
DAGGETT TRANSITION (DAG.CLARR2): From over DAG VORTAC via DAG R-031 and LAS R-211 to CLARR INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.CLARR2): From over TNP VORTAC via TNP R-028 to JOTNU INT, then via GFS R-185 to GFS VORTAC, then via GFS R-308 and BTY R-126 to CLARR INT. Thence. . . .

....From over CLARR INT via LAS R-211 to SKEBR INT. Thence. . .

LANDING MC CARRAN INTL: Via heading 345° to intercept the BLD R-260 to BLD VORTAC.
Rwys 1L/R, 7L/R, and 19L/R expect radar vectors for visual approach prior to BLD VORTAC.
Rwys 25L/R expect ILS approach procedure.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: After SKEBR INT expect radar vectors to airport.



BEATTY TRANSITION (BTY.FUZZY7): From over BTY VORTAC via BTY R-115 to FUZZY INT. Thence . . .
 . . . From over FUZZY via heading 100° to intercept BLD R-260 to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 1L/R, 7L/R, and 19L/R: Expect vectors for visual approach prior to BLD VORTAC.

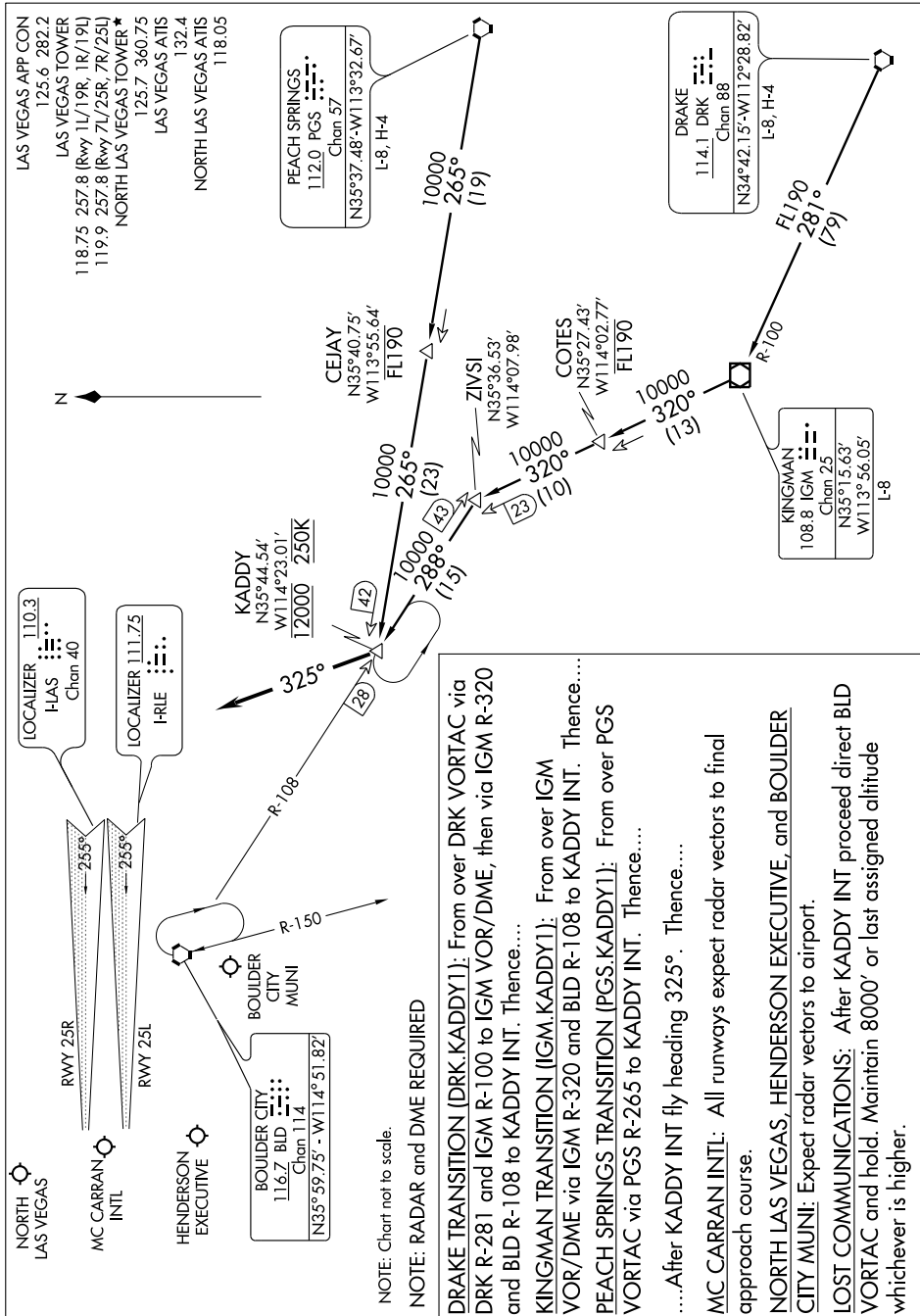
LANDING MC CARRAN INTL RWYS 25L/R: Expect ILS approach.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI :
 After IPUMY, expect radar vectors to airport.

KADDY ONE ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA





ARRIVAL DESCRIPTION

BETHL TRANSITION (BETHL.LUXOR2): From over BETHL INT via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

BRYCE CANYON TRANSITION (BCE.LUXOR2): From over BCE VORTAC via BCE R-218 and LAS R-045 to LUXOR INT. Thence. . . .

DOVE CREEK TRANSITION (DVC.LUXOR2): From over DVC VORTAC via DVC R-239 and LAS R-054 to BETHL INT, then via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

MILFORD TRANSITION (MLF.LUXOR2): From over MLF VORTAC via MLF R-190 and LAS R-045 to LUXOR INT. Thence. . . .

. . . .From over LUXOR INT via BLD R-023 to BAMAA INT, thence via LAS R-066 to LAS VORTAC. Thence. . . .

LANDING MC CARRAN INTL: All runways expect radar vectors to final approach course.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: Expect radar vectors to airport.

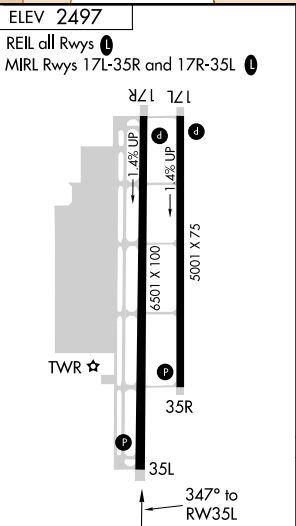
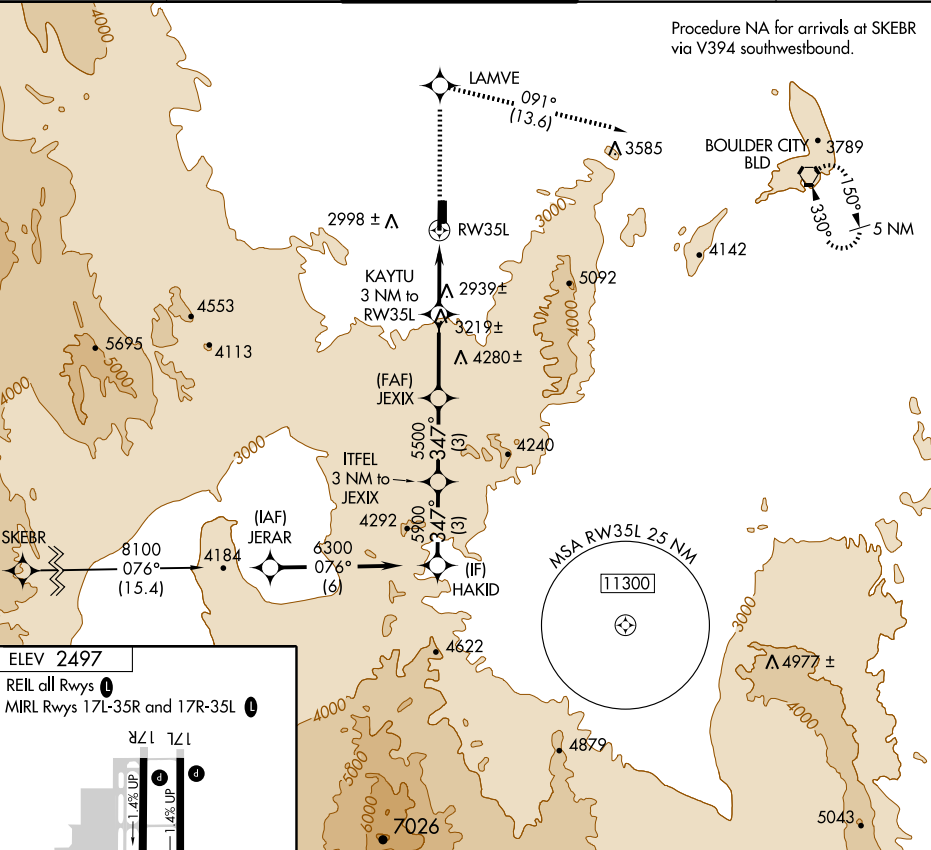
LOST COMMUNICATIONS: After LAS VORTAC proceed direct BLD VORTAC and hold. Maintain 8000' or last assigned altitude whichever is higher.

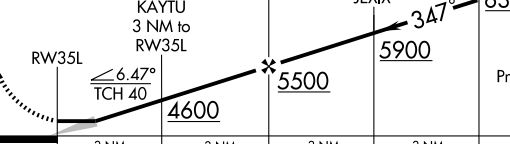
APP CRS 347°	Rwy Idg TDZE Apt Elev N/A 2497
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RNAV (GPS)-B
LAS VEGAS/HENDERSON EXECUTIVE (HND)

⚠ If local altimeter setting not received, use McCarran Intl altimeter setting. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 6000 direct LAMVE and via 091° track to BLD VORTAC and hold.
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ATIS 120.775	LAS VEGAS APP CON 118.4 307.25	HENDERSON TOWER★ 125.1 (CTAF) 0	GND CON 127.8	UNICOM 122.95
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6000 ↑	LAMVE ✦	091° track	BLD ⬡	VGSI and descent angles not coincident		HAKID
				ITFEL 3 NM to JEXIX		
				JEXIX	347°	6300
					5900	
					5500	
					4600	
					≤ 6.47° TCH 40°	
					3 NM	
					3 NM	
					3 NM	
					3 NM	
						Procedure Turn NA
CATEGORY	A		B		C	D
CIRCLING	3400-1¼ 903 (1000-1¼)				NA	NA

MISSED APPROACH: Climb to 7000 via BLD R-247 to GABIL Int/
BLD 16 DME, and a right turn direct BLD VORTAC and hold.

UNICOM
122.95

7000 ↑ BLD R-247	GABIL INT BLD 16	BLD 116.7	*4860 when using McCarran Intl altimeter setting.		VORTAC	One Minute Holding Pattern
CATEGORY	A	B	C	D		
CIRCLING	4800-1¼ 2303 (2400-1¼)	4800-1½ 2303 (2400-1½)	4800-3 2303 (2400-3)	NA		
CIXOG FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)						
CIRCLING	3620-1¼ 1123 (1200-1¼)	3620-1½ 1123 (1200-1½)	3620-3 1123 (1200-3)	NA		

LAS VEGAS, NEVADA





(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb via 010° course to MEDUW WP, then left turn direct to cross BESSY WP at or below 7000, then via 186° track to JEBBB WP, then via 147° track to cross BOACH WP at or above 13000. Thence....

TAKE-OFF RUNWAY 1R: Climb via 010° course to PAWEK WP, then left turn direct to cross BESSY WP at or below 7000, then via 186° track to JEBBB WP, then via 147° track to cross BOACH WP at or above 13000. Thence....

TAKE-OFF RUNWAY 7L: Climb via 075° course to WASTE WP, then via 075° track to cross BAKRR WP at or below 7000, then via 144° track to cross MINEY WP at or above 8000, then via 210° track to HITME WP, then via 217° track to cross BOACH WP at or above 13000. Thence....

TAKE-OFF RUNWAY 7R: Climb via 075° course to JESJI WP, then via 074° track to cross BAKRR WP at or below 7000, then via 144° track to cross MINEY WP at or above 8000, then via 210° track to HITME WP, then via 217° track to cross BOACH WP at or above 13000. Thence....

TAKE-OFF RUNWAY 19L: Climb via 190° course to FIXIX WP, then via 227° track to cross ROPPR WP at or below 7000, then via 170° track to RODDD WP, then via 160° track to cross BOACH WP at or above 13000. Thence....

TAKE-OFF RUNWAY 19R: Climb via 190° course to JAKER WP, then via 226° track to cross ROPPR WP at or below 7000, then via 170° track to RODDD WP, then via 160° track to cross BOACH WP at or above 13000. Thence....

TAKE-OFF RUNWAY 25L: Climb via 255° course to PIRMD WP, then via 186° track to cross ROPPR WP at or below 7000, then via 170° track to cross RODDD WP then via 160° track to cross BOACH WP at or above 13000, Thence....

TAKE-OFF RUNWAY 25R: Climb via 255° course to RBELL WP, then via 186° track to cross ROPPR WP at or below 7000, then via 170° track to RODDD WP, then via 160° track to cross BOACH WP at or above 13000, Thence....

....via (Transition) maintain FL190, expect filed altitude 10 minutes after departure.

HECTOR TRANSITION (BOACH2.HEC)

TWENTYNINE PALMS TRANSITION (BOACH2.TNP)

TAKE-OFF OBSTACLE NOTES

RWY 1L: Multiple poles, tree, and building 450 feet from departure end of rwy, 283 feet left of centerline, up to 174' AGL/2132' MSL.
OL on windsock 248 feet from departure end of rwy, 224 feet right of centerline, 15' AGL/2104' MSL.

RWY 1R: Multiple signs and building 1331 feet from departure end of rwy, 448 feet right of centerline, up to 100' AGL/2120' MSL.

RWY 7L: Multiple poles and trees 747 feet from departure end of rwy, 442 feet right of centerline, up to 62' AGL/2062' MSL.
Tree 1257 feet from departure end of rwy, 789 feet left of centerline, 65' AGL/2077' MSL.

RWY 7R: Lighted windsock 126 feet from departure end of rwy, 290 feet right of centerline, 25' AGL/2051' MSL.

RWY 19L: Multiple poles, sign, and building 1394 feet from departure end of rwy, 320 feet right of centerline, up to 51' AGL/2256' MSL.

RWY 19R: Multiple poles, sign, and building 197 feet from departure end of rwy, 125 feet right of centerline, up to 51' AGL/2256' MSL.

Multiple poles and building 1396 feet from departure end of rwy, 356 feet left of centerline, up to 47' AGL/2262' MSL.

RWY 25L: Multiple poles, sign, and building 1003 feet from departure end of rwy, 251 feet left of centerline, up to 63' AGL/2256' MSL.

RWY 25R: Multiple poles and road 675 feet from departure end of rwy, 17 feet right of centerline, up to 100' AGL/2301' MSL.

Multiple poles and buildings 533 feet from departure end of rwy, 1 foot left of centerline, up to 150' AGL/2469' MSL.

CLARR TWO ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA

LAS VEGAS APP CON

125.025 282.2

LAS VEGAS TOWER

118.75 257.8 (Rwy 1L/19R, 1R/19L)

119.9 257.8 (Rwy 7L/25R, 7R/25L)

NORTH LAS VEGAS TOWER*

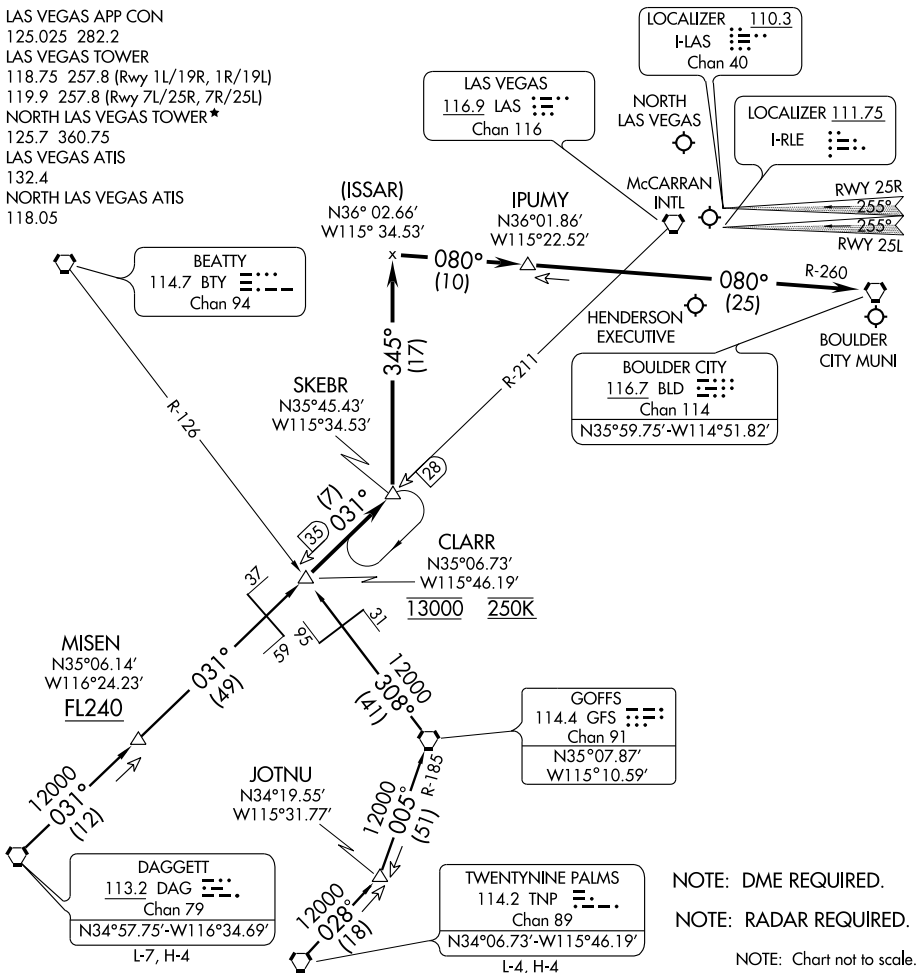
125.7 360.75

LAS VEGAS ATIS

132.4

NORTH LAS VEGAS ATIS

118.05



NOTE: DME REQUIRED.

NOTE: RADAR REQUIRED.

NOTE: Chart not to scale.

DAGGETT TRANSITION (DAG.CLARR2): From over DAG VORTAC via DAG R-031 and LAS R-211 to CLARR INT. Thence. . .

TWENTYNINE PALMS TRANSITION (TNP.CLARR2): From over TNP VORTAC via TNP R-028 to JOTNU INT, then via GFS R-185 to GFS VORTAC, then via GFS R-308 and BTY R-126 to CLARR INT. Thence. . .

....From over CLARR INT via LAS R-211 to SKEBR INT. Thence. . .

LANDING MC CARRAN INTL: Via heading 345° to intercept the BLD R-260 to BLD VORTAC. Rws 1L/R, 7L/R, and 19L/R expect radar vectors for visual approach prior to BLD VORTAC. Rws 25L/R expect ILS approach procedure.

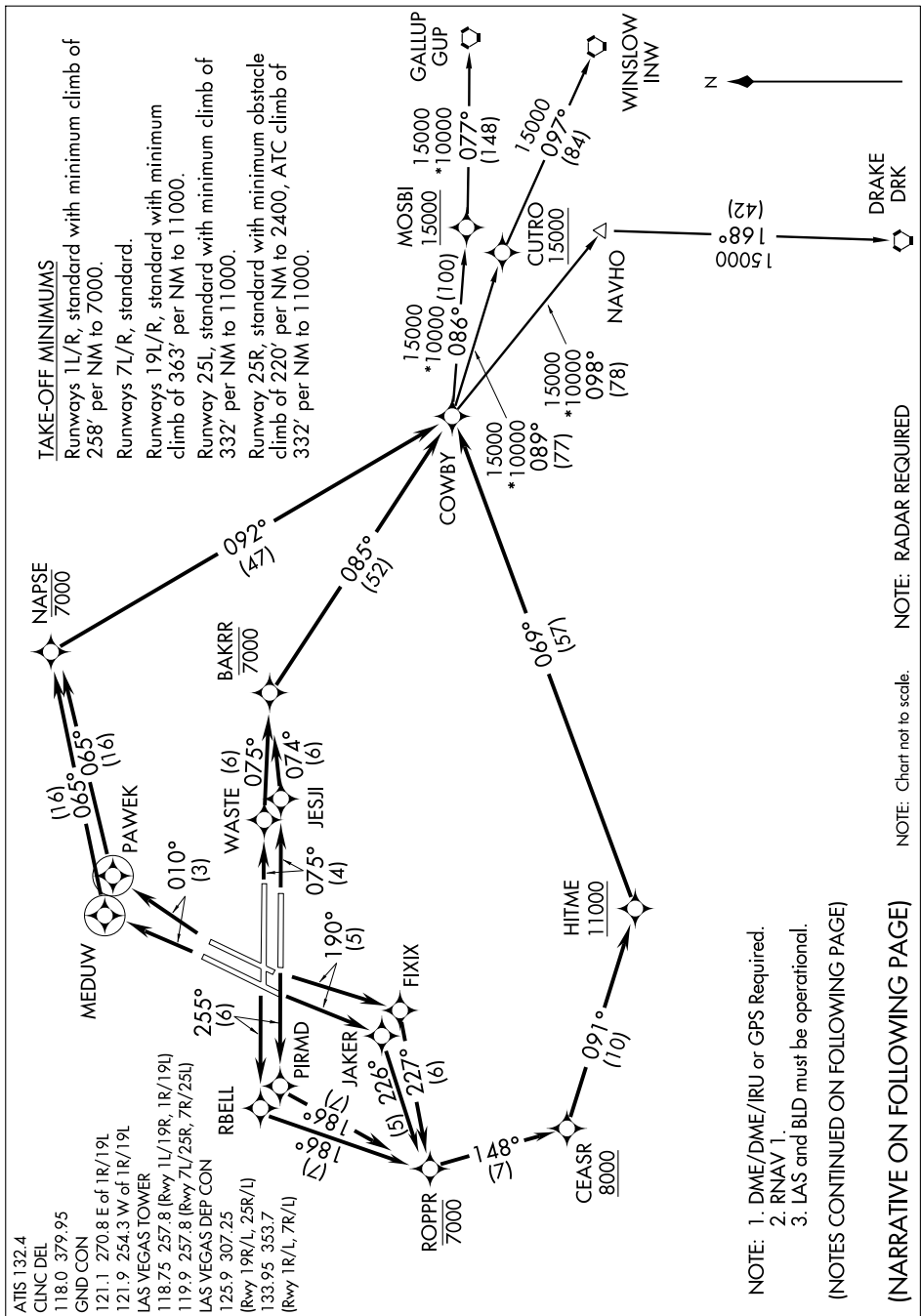
LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: After SKEBR INT expect radar vectors to airport.

SW-4, 14 JAN 2010 to 11 FEB 2010

SL-662 (FAA)

LAS VEGAS/MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

LAS VEGAS, NEVADA



SW-4. 14 JAN 2010 to 11 FEB 2010

COWBY TWO DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb via 010° course to MEDUW WP, then via 065° track to cross NAPSE WP at or below 7000, then via 092° track to COWBY WP. Thence. . .

TAKE-OFF RUNWAY 1R: Climb via 010° course to PAWEK WP, then via 065° track to cross NAPSE WP at or below 7000, then via 092° track to COWBY WP. Thence. . .

TAKE-OFF RUNWAY 7L: Climb via 075° course to WASTE WP, then via 075° track to cross BAKRR WP at or below 7000, then via 085° track to COWBY WP. Thence. . .

TAKE-OFF RUNWAY 7R: Climb via 075° course to JESJI WP, then via 074° track to cross BAKRR WP at or below 7000, then via 085° track to COWBY WP. Thence. . .

TAKE-OFF RUNWAY 19L: Climb via 190° course to FIXIX WP, then via 227° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 069° track to COWBY WP. Thence....

TAKE-OFF RUNWAY 19R: Climb via 190° course to JAKER WP, then via 226° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 069° track to COWBY WP. Thence....

TAKE-OFF RUNWAY 25L: Climb via 255° course to PIRMD WP, then via 186° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 069° track to COWBY WP. Thence....

TAKE-OFF RUNWAY 25R: Climb via 255° course to RBELL WP, then via 186° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 069° track to COWBY WP. Thence....

....via (Transition) maintain FL190, expect filed altitude 10 minutes after departure.

DRAKE TRANSITION (COWBY2.DRK)

GALLUP TRANSITION (COWBY2.GUP)

WINSLOW TRANSITION (COWBY2.INW)

TAKE-OFF OBSTACLE NOTES

RWY 1L: Multiple poles, tree, and building 450 feet from departure end of rwy, 283 feet left of centerline, up to 174' AGL/2132' MSL.
OL on windsock 248 feet from departure end of rwy, 224 feet right of centerline, 15' AGL/2104' MSL.

RWY 1R: Multiple signs and building 1331 feet from departure end of rwy, 448 feet right of centerline, up to 100' AGL/2120' MSL.

RWY 7L: Multiple poles and trees 747 feet from departure end of rwy, 442 feet right of centerline, up to 62' AGL/2062' MSL.
Tree 1257 feet from departure end of rwy, 789 feet left of centerline, 65' AGL/2077' MSL.

RWY 7R: Lighted windsock 126 feet from departure end of rwy, 290 feet right of centerline, 25' AGL/2051' MSL.

RWY 19L: Multiple poles, sign, and building 1394 feet from departure end of rwy, 320 feet right of centerline, up to 51' AGL/2256' MSL.

RWY 19R: Multiple poles, sign, and building 197 feet from departure end of rwy, 125 feet right of centerline, up to 51' AGL/2256' MSL.
Multiple poles and building 1396 feet from departure end of rwy, 356 feet left of centerline, up to 47' AGL/2262' MSL.

RWY 25L: Multiple poles, sign, and building 1003 feet from departure end of rwy, 251 feet left of centerline, up to 63' AGL/2256' MSL.

RWY 25R: Multiple poles and road 675 feet from departure end of rwy, 17 feet right of centerline, up to 100' AGL/2301' MSL.
Multiple poles and buildings 533 feet from departure end of rwy, 1 foot left of centerline, up to 150' AGL/2469' MSL.

LAS VEGAS APP CON

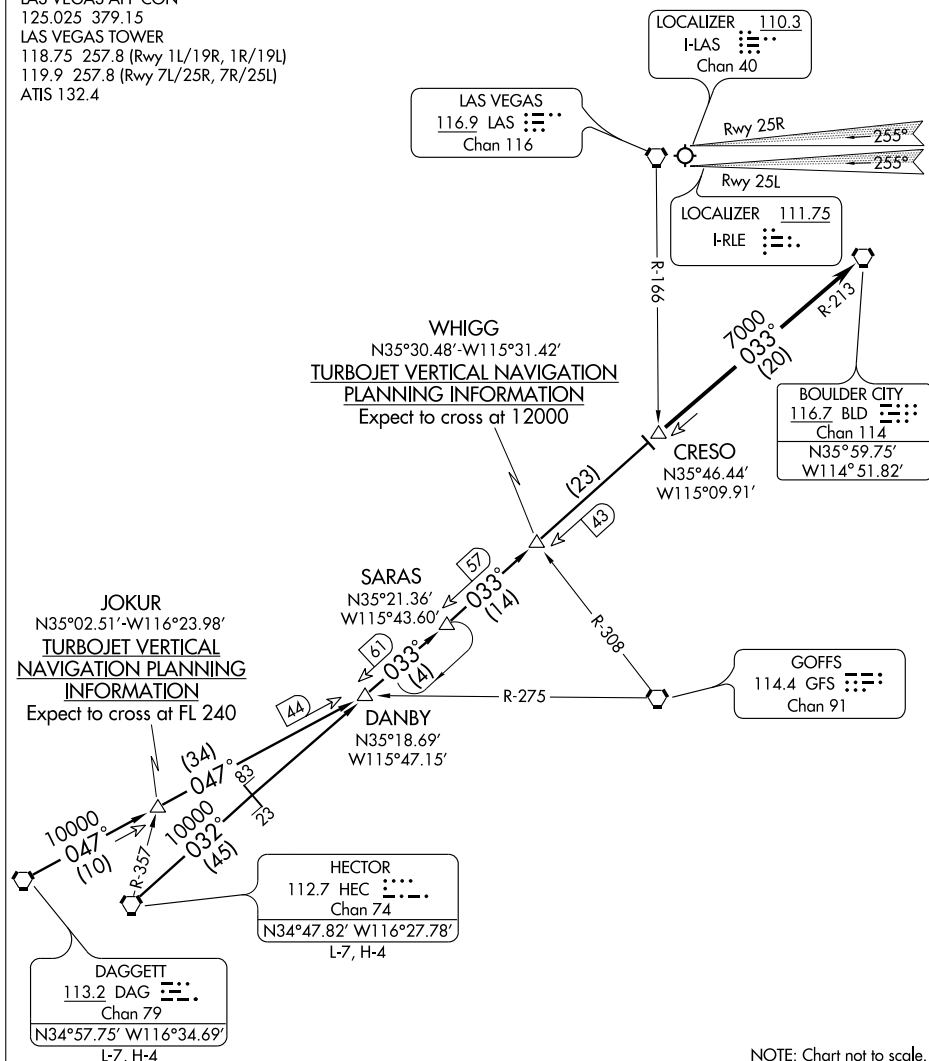
125.025 379.15

LAS VEGAS TOWER

118.75 257.8 (Rwy 1L/19R, 1R/19L)

119.9 257.8 (Rwy 7L/25R, 7R/25L)

ATIS 132.4



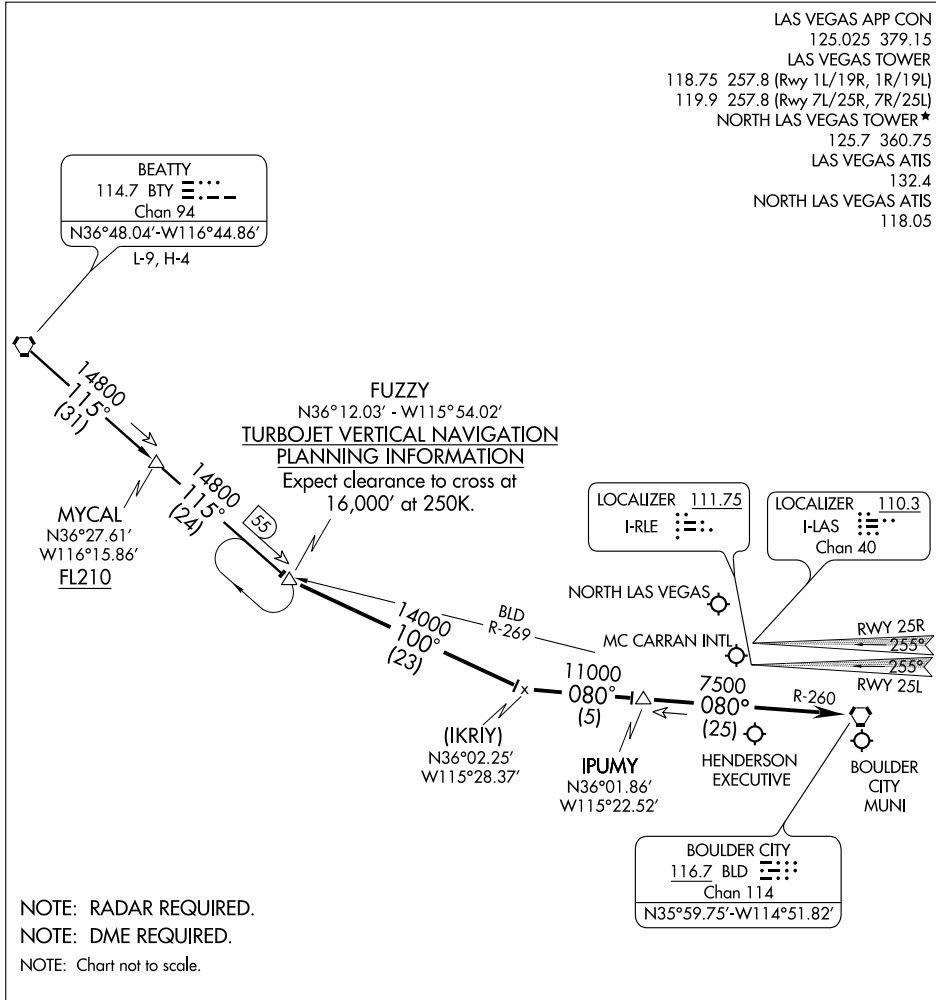
NOTE: Chart not to scale.

DAGGETT TRANSITION (DAG.CRESO3): From over DAG VORTAC via DAG R-047 and BLD R-213 to CRESO INT/DME, thence....

HECTOR TRANSITION (HEC.CRESO3): From over HEC VORTAC via HEC R-032 and BLD R-213 to CRESO INT/DME, Thence....

...From over CRESO INT/DME via BLD R-213 to BLD VORTAC. Runways 1, 7 and 19 expect vectors to final approach course. From BLD VORTAC, expect ILS approach Runway 25L.

SW-4. 14 JAN 2010 to 11 FEB 2010

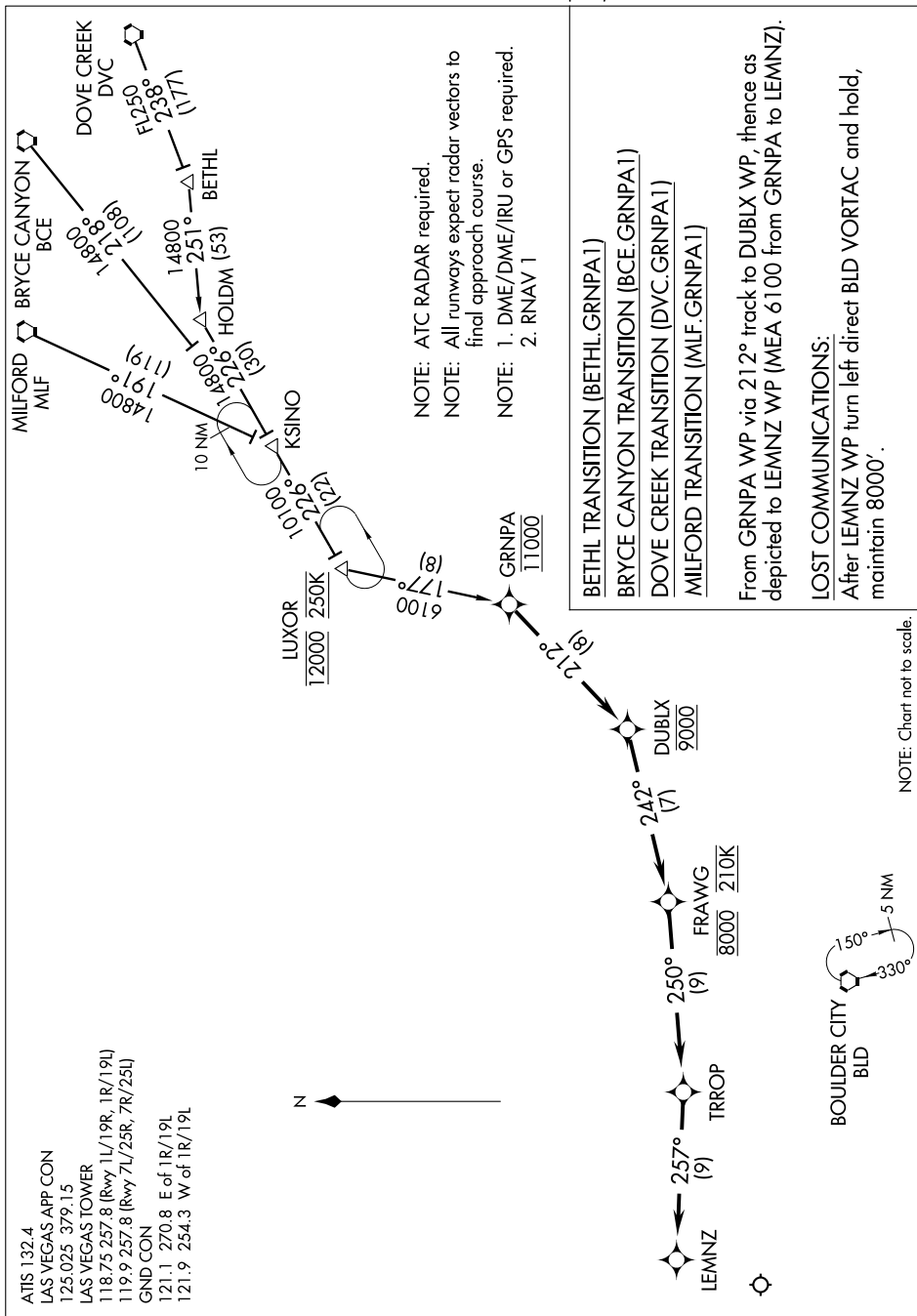


BEATTY TRANSITION (BTY.FUZZY7): From over BTY VORTAC via BTY R-115 to FUZZY INT. Thence . . .
 . . . From over FUZZY via heading 100° to intercept BLD R-260 to BLD VORTAC.

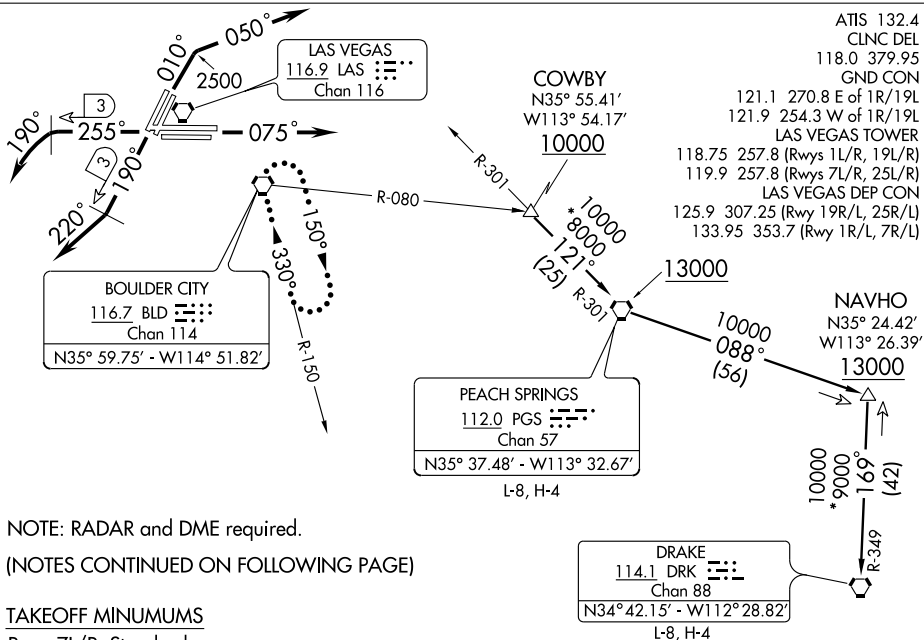
LANDING MC CARRAN INTL RWYS 1L/R, 7L/R, and 19L/R: Expect vectors for visual approach prior to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 25L/R: Expect ILS approach.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI :
 After IPUMY, expect radar vectors to airport.



HOOVER THREE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via heading 010° to 2500, then climbing right turn via heading 050°, thence

TAKE-OFF RUNWAYS 7L/R: Climb via heading 075°, thence

TAKE-OFF RUNWAYS 19L/R: Climb via heading 190° until LAS VORTAC 3 DME, then right turn via heading 220°, thence

TAKE-OFF RUNWAYS 25L/R: Climb via heading 255° until LAS VORTAC 3 DME, then left turn via heading 190°, thence

.... via radar vector to transition or assigned route, maintain 7000, expect clearance to filed altitude two minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC upon reaching 7000', proceed direct BLD VORTAC then climb in BLD VORTAC holding pattern to appropriate MEA for route of flight.

DRAKE TRANSITION (HOOVR3.DRK): From over COWBY INT via PGS R-301 to PGS VORTAC then PGS R-088 and DRK R-349 to DRK VORTAC.

PEACH SPRINGS TRANSITION (HOOVR3.PGS): From over COWBY INT via PGS R-301 to PGS VORTAC.

HOOVER THREE DEPARTURE

TAKE-OFF OBSTACLE NOTES

- RWY 1L: Multiple buildings 3954' from DER, 1 NM left of centerline, up to 283' AGL/2409' MSL.
Pole 450' from DER, 283' left of centerline, 38' AGL/2118' MSL.
Obstacle light on wind sock 248' from DER, 224' right of centerline, 50' AGL/2104' MSL.
Pole 1029' from DER, 715' left of centerline, 85' AGL/2124' MSL.
Tree 1536' from DER, 502' left of centerline, 100' AGL/2132' MSL.
- RWY 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL.
Building 599' from DER, 541' right of centerline, 70' AGL/2096' MSL.
Multiple buildings 4878' from DER, 1.2 NM left of centerline, up to 283' AGL/2409' MSL.
- RWY 25R: Light pole 3115' from DER, 1033' right of centerline, 109' AGL/2301' MSL.
Light on pole 1.5 NM from DER, 2836' left of centerline, 124' AGL/2457' MSL.
Road 1.7 NM from DER, 2965' left of centerline, 139' AGL/2469' MSL.
Light on pole 1100' from DER, 508' left of centerline, 47' AGL/2226' MSL.
Building 1822' from DER, 652' left of centerline, 46' AGL/2238' MSL.
Building 2202' from DER, 596' left of centerline, 44' AGL/2246' MSL.
Rod on building 534' from DER, 369' left of centerline, 33' AGL/2202' MSL.
Road 678' from DER, 16' right of centerline, 35' AGL/2201' MSL.
Light on localizer antenna 533' from DER, 32' AGL/2195' MSL.
- RWY 25L: Pole 2860' from DER, 813' left of centerline, 57' AGL/2236' MSL.
Sign 3672' from DER, 1302' left of centerline, 57' AGL/2256' MSL.
Antenna on building 1002' from DER, 251' left of centerline, 34' AGL/2183' MSL.
Pole 3677' from DER, 145' left of centerline, 67' AGL/2249' MSL.
- RWY 7L: Tree 1257' from DER, 789' left of centerline, 85' AGL/2077' MSL.
Light pole 747' from DER, 441' right of centerline, 62' AGL/2057' MSL.
Tree 1007' from DER, 557' right of centerline, 70' AGL/2062' MSL.
- RWY 7R: Light on wind sock 102' from DER, 300' right of centerline, 30' AGL/2051' MSL.
- RWY 19L: Pole 1394' from DER, 533' right of centerline, 36' AGL/2236' MSL.
Sign 2181' from DER, 1062' right of centerline, 50' AGL/2256' MSL.
Rod on building 2921' from DER, 581' right of centerline, 50' AGL/2262' MSL.
Pole 2633' from DER, 319' right of centerline, 40' AGL/2246' MSL.
- RWY 19R: Pole 1135' from DER, 619' right of centerline, 65' AGL/2249' MSL.
Pole 756' from DER, 618' right of centerline, 50' AGL/2231' MSL.
Sign 2182' from DER, 125' right of centerline, 50' AGL/2256' MSL.
Pole 1396' from DER, 403' left of centerline, 55' AGL/2236' MSL.
Rod on building 197' from DER, 441' right of centerline, 30' AGL/2202' MSL.
Rod on building 2922' from DER, 356' left of centerline, 50' AGL/2262' MSL.

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Inoperative table does not apply to S-LOC 1L Cat C.

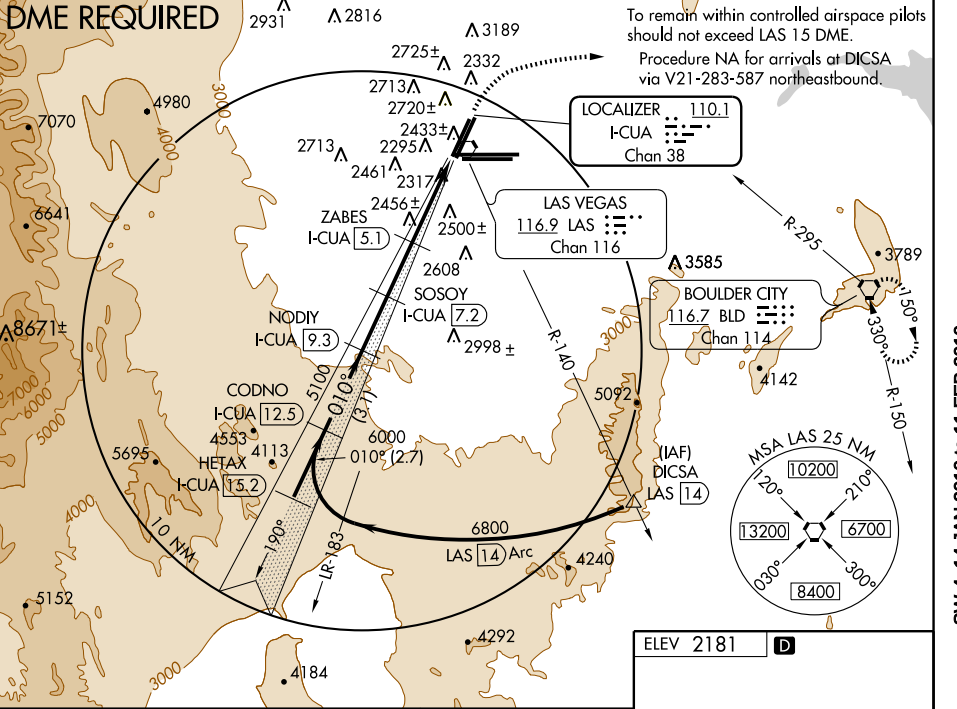
MAISF

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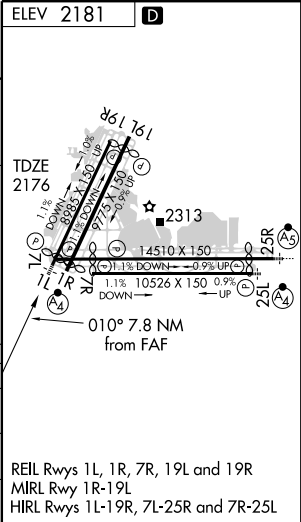
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MISSED APPROACH: Climb to 3200, then climbing right turn to 6000 via 070° heading and BLD R-295 to BLD VORTAC and hold.

ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL
132.4	125.025 379.15	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0 379.95



Use I-CUA DME when on the localizer course.				
HETAX I-CUA 15.2 VGSI and ILS glidepath not coincident.				
Procedure Turn NA	CODNO I-CUA 12.5	NODIY I-CUA 9.3	SOSOY I-CUA 7.2	ZABES I-CUA 5.1
6800	5100	4300	3600	3200
GS 3.40° TCH 58	010°	010°	010°	010°
2.7 NM	3.1 NM	2.1 NM	2.1 NM	2.1 NM
CATEGORY	A	B	C	D
S-ILS 1L	2460-1 284 (300-1)			NA
S-LOC 1L	2720-1 544 (600-1)			NA
CIRCLING	3020-1 839 (900-1)	3020-1¼ 839 (900-1¼)	3020-2½ 839 (900-2½)	NA



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Inoperative table does not apply to S-LOC 25L

Cat C and Sidestep 25R Cats A and B.

MALSF

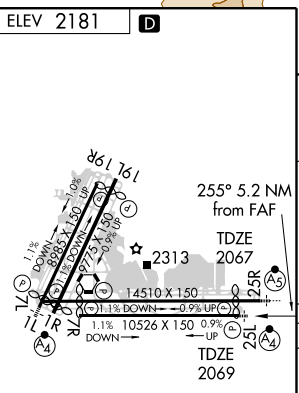
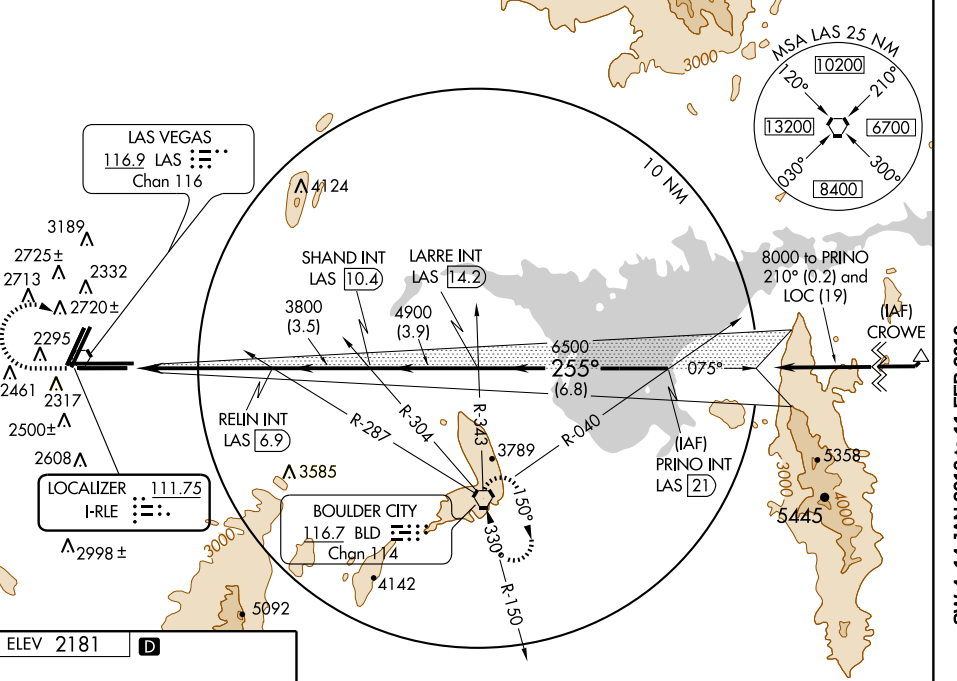
Rwy 25L

MALSR

Rwy 25R

MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct BLD VORTAC and hold.

ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL
132.4	125.025 379.15	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0 379.95



REIL Rwy 1L, 1R, 7R, 19L and 19R	60	90	120	150	180
MIRL Rwy 1R-19L	5:12	3:28	2:36	2:05	1:44
HIRL Rwy 1L-19R, 7L-25R and 7R-25L					
FAF to MAP 5.2 NM					

	3000	6000	BLD	VGSI and ILS glidepath not coincident	PRINO INT LAS
			116.7		21
			LAS	SHAND INT LAS	LARRE INT LAS
			1.7	10.4	14.2
			RELIN INT LAS		
			6.9		
			3800	4900	6500
			3800		
			5.2 NM	3.5 NM	3.9 NM
					6.8 NM
					255°
					8000
					Procedure Turn NA
					GS 3.00°
					TCH 65
CATEGORY	A	B	C	D	E
S-ILS 25L	2269-3/4 200 (100-3/4)				
S-LOC 25L	2540-3/4 471 (400-3/4)	2540-1 471 (400-1)	2540-1 1/2 471 (400-1 1/2)	2540-1 3/4 471 (400-1 3/4)	
SIDESTEP RWY 25R	2540-1 473 (400-1)	2540-1 1/2 473 (400-1 1/2)			
CIRCLING	3020-1 839 (900-1)	3020-1 1/4 839 (900-1 1/4)	3020-2 1/2 839 (900-2 1/2)	3020-2 3/4 839 (900-2 3/4)	3540-3 1359 (1400-3)

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Inoperative table does not apply to Sidestep 25L.
For inoperative MALSRS, increase S-ILS Cat E visibility ¼ mile, and S-LOC Cat E visibility ½ mile.

MALSRS

Rwy 25R

AS

110.3

MALSFS

Rwy 25L

AS

110.3

MISSED APPROACH: Climb to 3200, then climbing right turn to 6000 direct BLD VORTAC and hold.

ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL
132.4	125.025 379.15	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0 379.95

Procedure NA for arrivals at BLD VORTAC via airway radials 274 CW 016.

ALT MISSED APCH FIX
FLYES
LAS 19.3
116.9 IAS
Chan 116
116.7 BLD
Chan 144
R-031
R-076
256°
076°

10 NM

2931
2816
3189
2725±
2332
2713
2295
2074±
2372
2720±
2295
2074±
2317
2101±
2500±
2608
2998±

LAS VEGAS
116.9 IAS
Chan 116

CONDY INT
I-LAS 7.5

HAWKO INT
I-LAS 12.3

FLUCR INT
I-LAS 15.6

FLYES INT
I-LAS 19.9

BLD VORTAC
116.7 BLD
Chan 144

3585
5400
316° (5.6)

3789
3300
150°

5092
7600
053° (19.8)

4142

8000
255° (20.9)

5358
5445

MSA LAS 25 NM
10200
13200
6700
8400

ELEV 2181

3200	6000	BLD	VGSI and ILS glidepath not coincident	FLYES INT	
		116.7		I-LAS 19.9	
		CONDY INT	HAWKO INT	FLUCR INT	
		I-LAS 7.5	I-LAS 12.3	I-LAS 15.6	
		I-LAS 2.3	I-LAS 3.5	3800	
		3800	5400	6500	
		1.3	3.9 NM	4.8 NM	
		3.3 NM	4.3 NM		
CATEGORY	A	B	C	D	E
S-ILS 25R	2340-½ 273 (200-½)				
S-LOC 25R	2540-½ 473 (400-½)	2540-¾ 473 (400-¾)	2540-1 473 (400-1)	2540-1¼ 473 (400-1¼)	
SIDESTEP RWY 25L	2540-1 471 (400-1)	2540-1½ 471 (400-1½)	2540-2 471 (400-2)		
CIRCLING	3020-1 839 (900-1)	3020-1¼ 839 (900-1¼)	3020-2½ 839 (900-2½)	3040-2¾ 859 (900-2¾)	3540-3 1359 (1400-3)

REIL Rwy 1L, 1R, 7R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwy 1L-19R, 7L-25R and 7R-25L

FAF to MAP 5.2 NM

Knots

60

90

120

150

180

Min:Sec

5:06

3:24

2:33

2:02

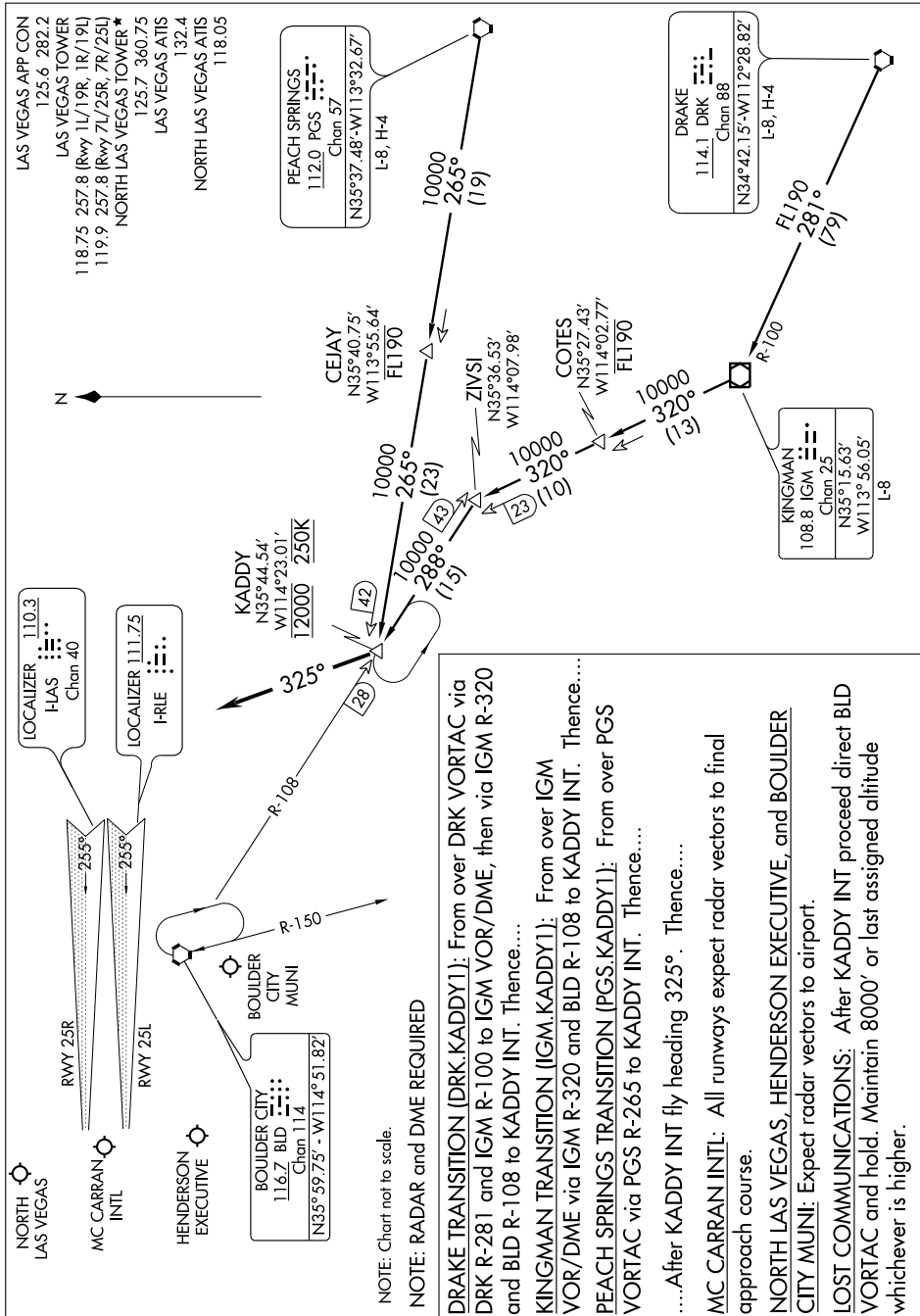
1:42

SW-4, 14 JAN 2010 to 11 FEB 2010

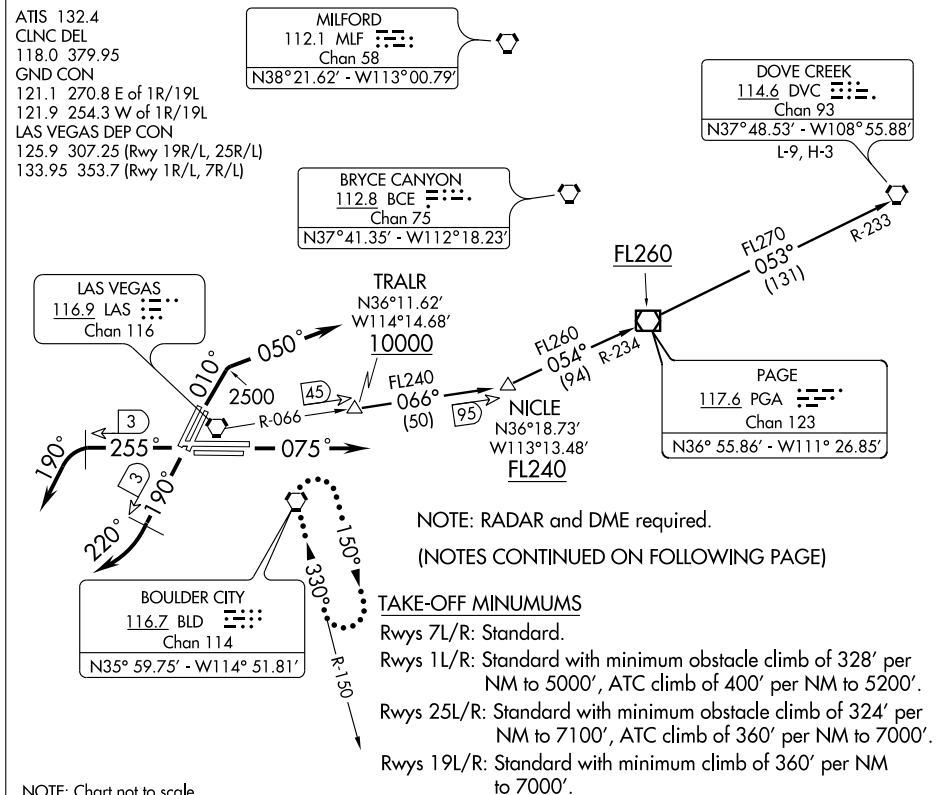
KADDY ONE ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA



LAS VEGAS THREE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via heading 010° to 2500, then climbing right turn via heading 050°, thence

TAKE-OFF RUNWAYS 7L/R: Climb via heading 075°, thence

TAKE-OFF RUNWAYS 19L/R: Climb via heading 190° until LAS VORTAC 3 DME, then right turn via heading 220°, thence

TAKE-OFF RUNWAYS 25L/R: Climb via heading 255° until LAS VORTAC 3 DME, then left turn via heading 190°, thence

.... via radar vector to transition or assigned route, maintain 7000', expect clearance to filed altitude two minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC upon reaching 7000', proceed direct BLD VORTAC then climb in BLD VORTAC holding pattern to appropriate MEA for route of flight.

DOVE CREEK TRANSITION (LAS3.DVC): From over TRALR INT via LAS R-066 to NICLE INT, then via PGA R-234 to PGA VOR/DME, then via PGA R-053 and DVC R-233 to DVC VORTAC.

LAS VEGAS THREE DEPARTURE

TAKE-OFF OBSTACLE NOTES

- RWY 1L: Multiple buildings 3954' from DER, 1 NM left of centerline, up to 283' AGL/2409' MSL.
Pole 450' from DER, 283' left of centerline, 38' AGL/2118' MSL.
Obstacle light on wind sock 248' from DER, 224' right of centerline, 50' AGL/2104' MSL.
Pole 1029' from DER, 715' left of centerline, 85' AGL/2124' MSL.
Tree 1536' from DER, 502' left of centerline, 100' AGL/2132' MSL.
- RWY 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL.
Building 599' from DER, 541' right of centerline, 70' AGL/2096' MSL.
Multiple buildings 4878' from DER, 1.2 NM left of centerline, up to 283' AGL/2409' MSL.
- RWY 25R: Light pole 3115' from DER, 1033' right of centerline, 109' AGL/2301' MSL.
Light on pole 1.5 NM from DER, 2836' left of centerline, 124' AGL/2457' MSL.
Road 1.7 NM from DER, 2965' left of centerline, 139' AGL/2469' MSL.
Light on pole 1100' from DER, 508' left of centerline, 47' AGL/2226' MSL.
Building 1822' from DER, 652' left of centerline, 46' AGL/2238' MSL.
Building 2202' from DER, 596' left of centerline, 44' AGL/2246' MSL.
Rod on building 534' from DER, 369' left of centerline, 33' AGL/2202' MSL.
Road 678' from DER, 16' right of centerline, 35' AGL/2201' MSL.
Light on localizer antenna 533' from DER, 32' AGL/2195' MSL.
- RWY 25L: Pole 2860' from DER, 813' left of centerline, 57' AGL/2236' MSL.
Sign 3672' from DER, 1302' left of centerline, 57' AGL/2256' MSL.
Antenna on building 1002' from DER, 251' left of centerline, 34' AGL/2183' MSL.
Pole 3677' from DER, 145' left of centerline, 67' AGL/2249' MSL.
- RWY 7L: Tree 1257' from DER, 789' left of centerline, 85' AGL/2077' MSL.
Light pole 747' from DER, 441' right of centerline, 62' AGL/2057' MSL.
Tree 1007' from DER, 557' right of centerline, 70' AGL/2062' MSL.
- RWY 7R: Light on wind sock 102' from DER, 300' right of centerline, 30' AGL/2051' MSL.
- RWY 19L: Pole 1394' from DER, 533' right of centerline, 36' AGL/2236' MSL.
Sign 2181' from DER, 1062' right of centerline, 50' AGL/2256' MSL.
Rod on building 2921' from DER, 581' right of centerline, 50' AGL/2262' MSL.
Pole 2633' from DER, 319' right of centerline, 40' AGL/2246' MSL.
- RWY 19R: Pole 1135' from DER, 619' right of centerline, 65' AGL/2249' MSL.
Pole 756' from DER, 618' right of centerline, 50' AGL/2231' MSL.
Sign 2182' from DER, 125' right of centerline, 50' AGL/2256' MSL.
Pole 1396' from DER, 403' left of centerline, 55' AGL/2236' MSL.
Rod on building 197' from DER, 441' right of centerline, 30' AGL/2202' MSL.
Rod on building 2922' from DER, 356' left of centerline, 50' AGL/2262' MSL.



ARRIVAL DESCRIPTION

BETHL TRANSITION (BETHL.LUXOR2): From over BETHL INT via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

BRYCE CANYON TRANSITION (BCE.LUXOR2): From over BCE VORTAC via BCE R-218 and LAS R-045 to LUXOR INT. Thence. . . .

DOVE CREEK TRANSITION (DVC.LUXOR2): From over DVC VORTAC via DVC R-239 and LAS R-054 to BETHL INT, then via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

MILFORD TRANSITION (MLF.LUXOR2): From over MLF VORTAC via MLF R-190 and LAS R-045 to LUXOR INT. Thence. . . .

. . . .From over LUXOR INT via BLD R-023 to BAMAA INT, thence via LAS R-066 to LAS VORTAC. Thence. . . .

LANDING MC CARRAN INTL: All runways expect radar vectors to final approach course.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: Expect radar vectors to airport.

LOST COMMUNICATIONS: After LAS VORTAC proceed direct BLD VORTAC and hold. Maintain 8000' or last assigned altitude whichever is higher.

MCCARRAN THREE DEPARTURE

ATIS 132.4
CLINC DEL
118.0 379.95
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
118.75 257.8 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 7L/25R, 7R/25L)
LAS VEGAS DEP CON
125.9 307.25

BEATTY
114.7 BTY
Chan 94
N36°48.04'
W116°44.86'
L-9, H-4

LAS VEGAS
116.9 LAS
Chan 116

BOULDER CITY
116.7 BLD
Chan 114
N35°59.75'
W114°51.81'

SHEAD
N35° 53.74'
W115° 58.27'
12500

NOTE: RADAR and DME required.

NOTE: Rws 1L/R 3189' MSL monument,
2.7 NM north of DER, 2660' MSL
building, 1 NM northwest of DER.

HECTOR
112.7 HEC
Chan 74
N34° 47.82'
W116° 27.78'
L-7, H-4

WHIGG
N35° 30.48'
W115° 31.42'
10000

BOACH
N35° 40.69'
W115° 17.68'
8200

GOFFS
114.4 GFS
Chan 91
N35° 07.87'
W115° 10.59'

JOTNU
N34° 19.55'
W115° 31.77'

TWENTYNINE PALMS
114.2 TNP
Chan 89
N34° 06.73' - W115° 46.19'
L-4, H-4

TAKE-OFF MINIMUMS

Rwys 1L/R: 1100-3 with minimum climb of 529'
per NM to 7000'.

Rwys 19L/R: Standard with minimum climb of 360'
per NM to 7000'.

Rwys 25L/R: Standard with minimum obstacle climb
of 324' per NM to 7100, ATC climb of
360' per NM to 7000.

Rwys 7L/R: Standard with minimum ATC climb of 440'
per NM to 7000'.

TAKE-OFF OBSTACLE NOTES

RWY 1L: Pole 450' from DER, 283' left of centerline, 38' AGL/2118' MSL.

Obstacle light on wind sock 248' from DER, 224' right of centerline, 50' AGL/2104' MSL.

Pole 1029' from DER, 715' left of centerline, 85' AGL/2124' MSL.

Tree 1536' from DER, 502' left of centerline, 100' AGL/2132' MSL.

RWY 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL

Building 599' from DER, 541' right of centerline, 70' AGL/2096' MSL

(NOTES CONTINUED ON FOLLOWING PAGE)

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

MCCARRAN THREE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via heading 010° to 2500', then climbing left turn via heading 315° to 4500', then climbing left turn heading 180°, thence

TAKE-OFF RUNWAYS 7L/R: Climb via heading 075°, thence

TAKE-OFF RUNWAYS 19L/R: Climb via heading 190° until LAS VORTAC 3 DME, then right turn via heading 220°, thence

TAKE-OFF RUNWAYS 25L/R: Climb via heading 255° until LAS VORTAC 3 DME, then left turn via heading 190°, thence

....via radar vectors to transition or assigned route, maintain 7000', expect clearance to filed altitude 2 minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC upon reaching 7000', proceed direct BLD VORTAC, then climb in BLD VORTAC holding pattern to the appropriate MEA for route of flight.

BEATTY TRANSITION (MCCRN3.BTY): From over SHEAD INT via BTY R-129 to BTY VORTAC.

HECTOR TRANSITION (MCCRN3.HEC): From over BOACH INT via BLD R-213 and HEC R-032 to HEC VORTAC.

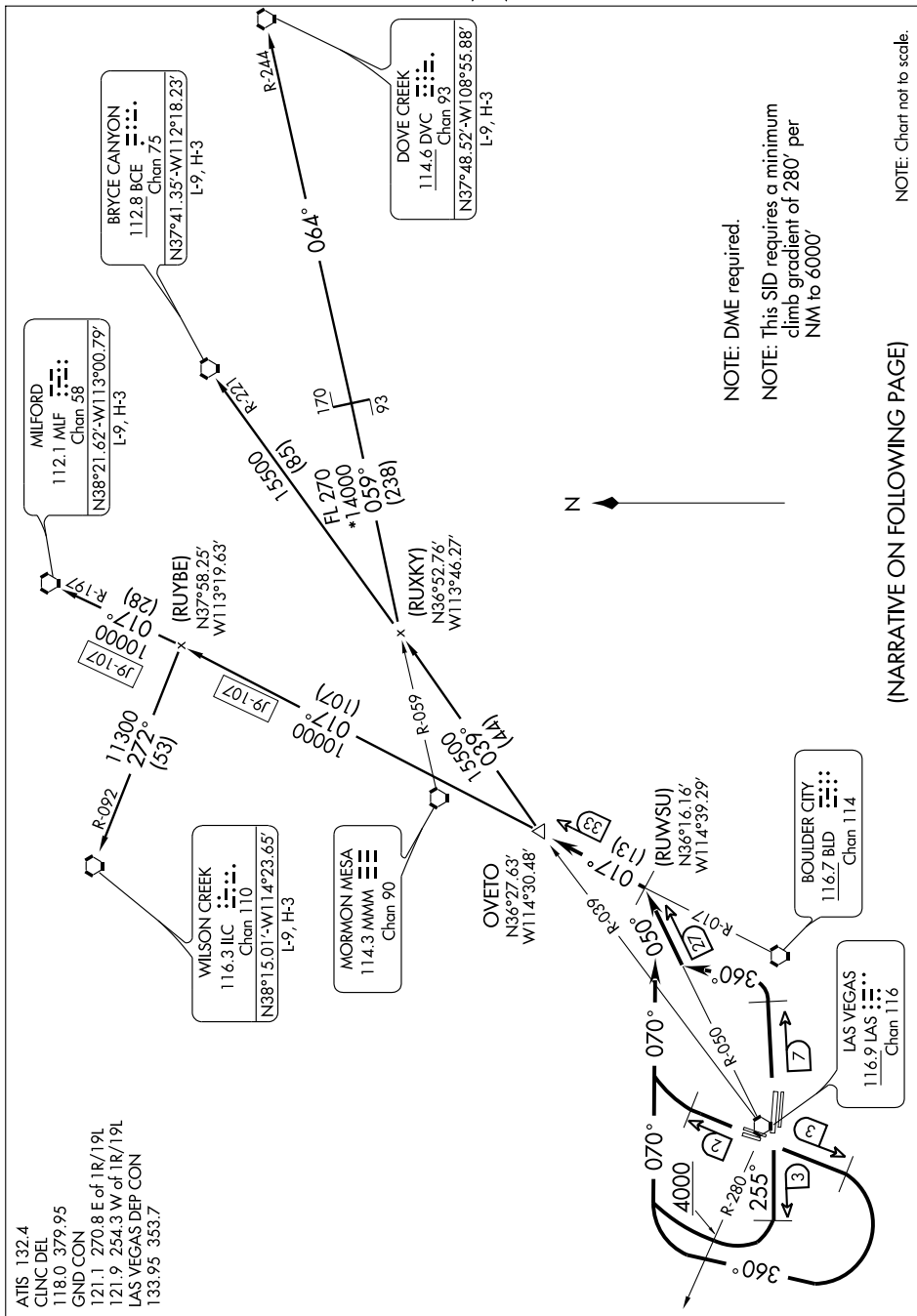
TWENTY NINE PALMS TRANSITION (MCCRN3.TNP): From over GFS VORTAC via GFS R-185 to JOTNU INT, then via TNP R-028 to TNP VORTAC.

TAKE-OFF OBSTACLE NOTES (CONTINUED)

- RWY 25R: Light pole 3115' from DER, 1033' right of centerline, 109' AGL/2301' MSL.
 Light on pole 1.5 NM from DER, 2836' left of centerline, 124' AGL/2457' MSL.
 Light pole 1.7 NM from DER, 2965' left of centerline, 139' AGL/2469' MSL.
 Light on pole 1100' from DER, 508' left of centerline, 47' AGL/2226' MSL.
 Building 1822' from DER, 652' left of centerline, 46' AGL/2238' MSL.
 Building 2202' from DER, 596' left of centerline, 44' AGL/2246' MSL.
 Rod on building 534' from DER, 369' left of centerline, 33' AGL/2202' MSL.
 Road 678' from DER, 16' right of centerline, 35' AGL/2201' MSL.
 Light on localizer antenna 533' from DER, 32' AGL/2195' MSL.
- RWY 25L: Pole 2860' from DER, 813' left of centerline, 57' AGL/2236' MSL.
 Sign 3672' from DER, 1302' left of centerline, 57' AGL/2256' MSL.
 Antenna on building 1002' from DER, 251' left of centerline, 34' AGL/2183' MSL.
 Pole 3677' from DER, 145' left of centerline, 67' AGL/2249' MSL.
- RWY 7L: Tree 1257' from DER, 789' left of centerline, 85' AGL/2077' MSL.
 Light pole 747' from DER, 441' right of centerline, 62' AGL/2057' MSL.
 Tree 1007' from DER, 557' right of centerline, 70' AGL/2062' MSL.
- RWY 7R: Light on wind sock 102' from DER, 300' right of centerline, 30' AGL/2051' MSL.
- RWY 19L: Pole 1394' from DER, 533' right of centerline, 36' AGL/2236' MSL.
 Sign 2181' from DER, 1062' right of centerline, 50' AGL/2256' MSL.
 Rod on building 2921' from DER, 581' right of centerline, 50' AGL/2262' MSL.
 Pole 2633' from DER, 319' right of centerline, 40' AGL/2246' MSL.
- RWY 19R: Pole 1135' from DER, 619' right of centerline, 65' AGL/2249' MSL.
 Pole 756' from DER, 618' right of centerline, 50' AGL/2231' MSL.
 Sign 2182' from DER, 125' right of centerline, 50' AGL/2256' MSL.
 Pole 1396' from DER, 403' left of centerline, 55' AGL/2236' MSL.
 Rod on building 197' from DER, 441' right of centerline, 30' AGL/2202' MSL.
 Rod on building 2922' from DER, 356' left of centerline, 50' AGL/2262' MSL.

OVETO THREE DEPARTURE

SL-662 (FAA)

LAS VEGAS/MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb on runway heading until reaching LAS 2 DME then turn right heading 070° to intercept LAS R-050 to 27 DME; intercept BLD R-017 to OVETO 33 DME; then via (transition) or (assigned route). Aircraft filing 17000' or above expect filed altitude/flight level ten minutes after departure.

TAKE-OFF RUNWAYS 7L/R: Climb on runway heading until reaching LAS 7 DME then turn left heading 360° to intercept LAS R-050 to 27 DME; maintain 8000'. Intercept BLD R-017 to OVETO 33 DME, then via (transition) or (assigned route). Aircraft filing 17000' or above expect filed altitude/flight level ten minutes after departure.

TAKE-OFF RUNWAYS 19L/R: Climb on runway heading until reaching LAS 3 DME then turn right heading 360° until crossing LAS R-280, then climbing right turn heading 070° to intercept LAS R-050 to 27 DME; intercept BLD R-017 to OVETO 33 DME, then via (transition) or (assigned route). Aircraft filing 17000' or above expect filed altitude/flight level ten minutes after departure.

TAKE-OFF RUNWAYS 25L/R: Climb on runway heading 255° until LAS 3 DME, then turn right heading 070° to cross LAS R-280 at or above 4000', continue heading 070° to intercept LAS R-050 to 27 DME; intercept BLD R-017 to OVETO 33 DME, then via (transition) or (assigned route). Aircraft filing 17000' or above, expect filed altitude/flight level ten minutes after departure.

BRYCE CANYON TRANSITION (OVETO3.BCE): From over OVETO INT via LAS R-039 and BCE R-221 to BCE VORTAC.

DOVE CREEK TRANSITION (OVETO3.DVC): From over OVETO INT via LAS R-039 to intercept MMM R-059, then via MMM R-059 and DVC R-244 to DVC VORTAC.

MILFORD TRANSITION (OVETO3.MLF): From over OVETO INT via BLD R-017 and MLF R-197 to MLF VORTAC.

WILSON CREEK TRANSITION (OVETO3.ILC): From over OVETO INT via BLD R-017 and MLF R-197 to ILC R-092, then via ILC R-092 to ILC VORTAC.

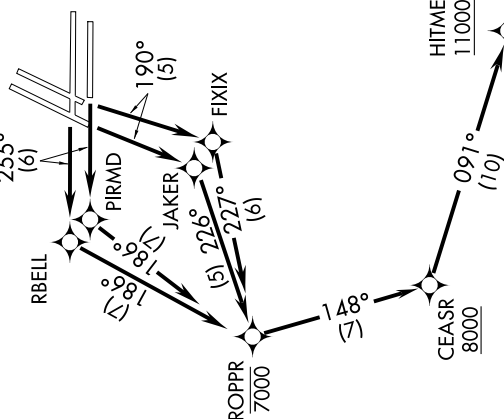
PRFUM TWO DEPARTURE (RNAV)

ATIS 132.4
CLNC DEL
118.0 379.95
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
118.75 257.8 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 7L/25R, 7R/25L)
LAS VEGAS DEP CON
125.9 307.25

TAKE-OFF MINIMUMS
Runways 1L/R, 7L/R, NA- air traffic.
Runways 19L/R, standard with minimum climb of 335' per NM to 15500.
Runway 25L, standard with minimum climb of 307' per NM to 16500.
Runway 25R, standard with obstacle climb of 220' per NM to 2400, ATC climb of 307' per NM to 16500.

NOTE: RADAR REQUIRED NOTE: Chart not to scale.

NOTE: 1. DME/DME/IRU or GPS Required.
2. RNAV 1.
3. LAS and BLD must be operational.



TAKE-OFF OBSTACLE NOTES

RWY 19L: Multiple poles, sign, and building 1394 feet from departure end of rwy, 320 feet right of centerline, up to 51' AGL/2256' MSL.
RWY 19R: Multiple poles, sign, and building 197 feet from departure end of rwy, 125 feet right of centerline, up to 51' AGL/2256' MSL.
Multiple poles and building 1396 feet from departure end of rwy, 356 feet left of centerline, up to 47' AGL/2262' MSL.
RWY 25L: Multiple poles, sign, and building 1003 feet from departure end of rwy, 251 feet left of centerline, up to 63' AGL/2256' MSL.
RWY 25R: Multiple poles and road 675 feet from departure end of rwy, 17 feet right of centerline, up to 100' AGL/2301' MSL.
Multiple poles and buildings 533 feet from departure end of rwy, 1 foot left of centerline, up to 150' AGL/2469' MSL.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19L: Climb via 190° course to FIXIX WP, then via 227° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 070° track to WINDS WP, then via 108° track to cross KADDY WP at or above FL200, then via 108° track to PRFUM WP. Thence....

TAKE-OFF RUNWAY 19R: Climb via 190° course to JAKER WP, then via 226° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 070° track to WINDS WP, then via 108° track to cross KADDY WP at or above FL200, then via 108° track to PRFUM WP. Thence....

TAKE-OFF RUNWAY 25L: Climb via 255° course to PIRMD WP, then via 186° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 070° track to WINDS WP, then via 108° track to cross KADDY WP at or above FL200, then via 108° track to PRFUM WP. Thence....

TAKE-OFF RUNWAY 25R: Climb via 255° course to RBELL WP, then via 186° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 091° track to cross HITME WP at or above 11000, then via 070° track to WINDS WP, then via 108° track to cross KADDY WP at or above FL200, then via 108° track to PRFUM WP. Thence....

....via (Transition) maintain FL190, expect filed altitude 10 minutes after departure.

DRAKE TRANSITION (PRFUM2.DRK)

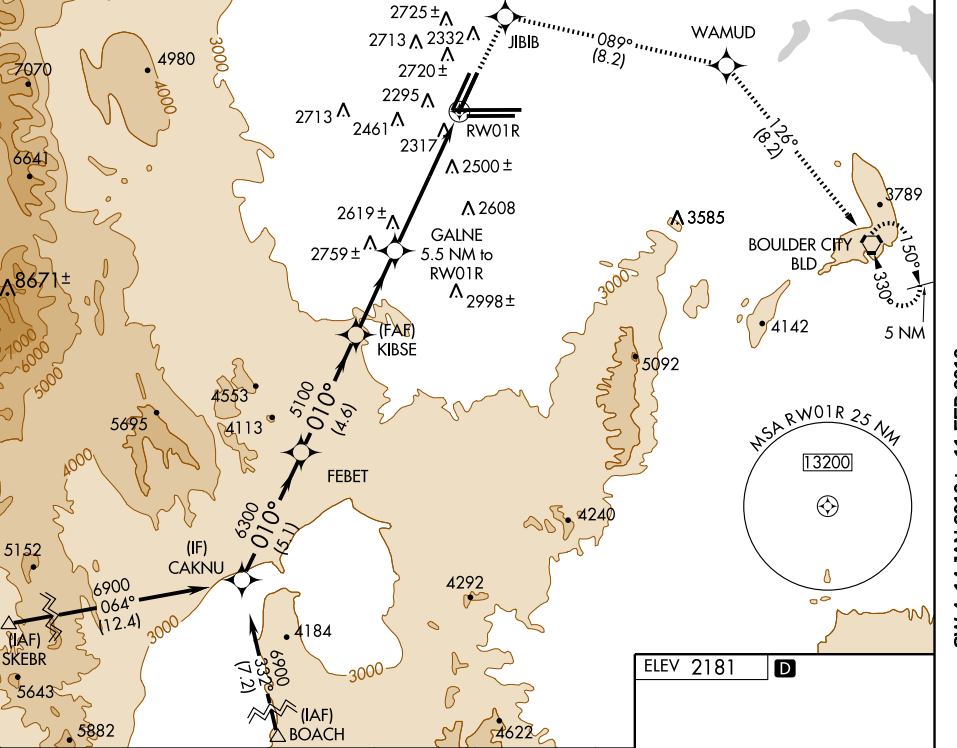
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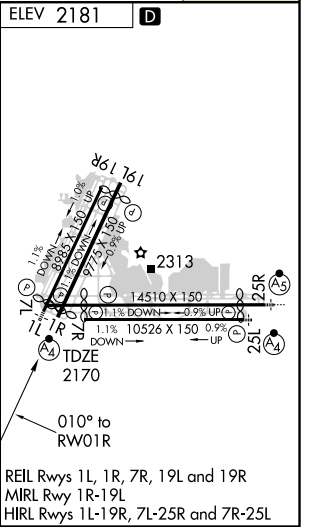
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct JIBIB and via 089° track to WAMUD and via 126° track to BLD VORTAC and hold.

ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL
132.4	125.025 379.15	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0 379.95



VGSI and RNAV glidepath not coincident				
CAKNU				
FEBET				
KIBSE				
GALNE 5.5 NM to RW01R				
RW01R				
*LNNAV only				
*2.1 NM to RW01R				
RW01R				
ELEV 2181				
D				
CATEGORY				
A				
B				
C				
D				
LPV DA				
2693-1¼ 523 (600-1¼)				
LNNAV/VNAV DA				
NA				
LNNAV MDA				
2920-1 750 (800-1) 2920-1¼ 750 (800-1¼) 2920-2¼ 750 (800-2¼) 3020-2 ½ 839 (900-2½) 3020-2¾ 839 (900-2¾)				
CIRCLING				
3020-1¼ 839 (900-1¼)				



SW-4. 14 JAN 2010 to 11 FEB 2010

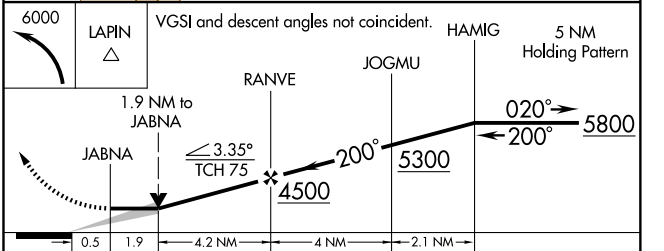
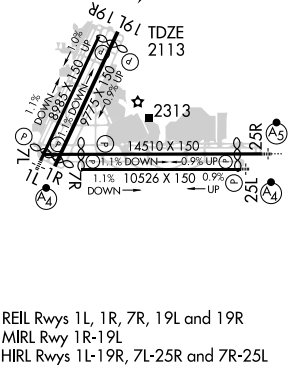
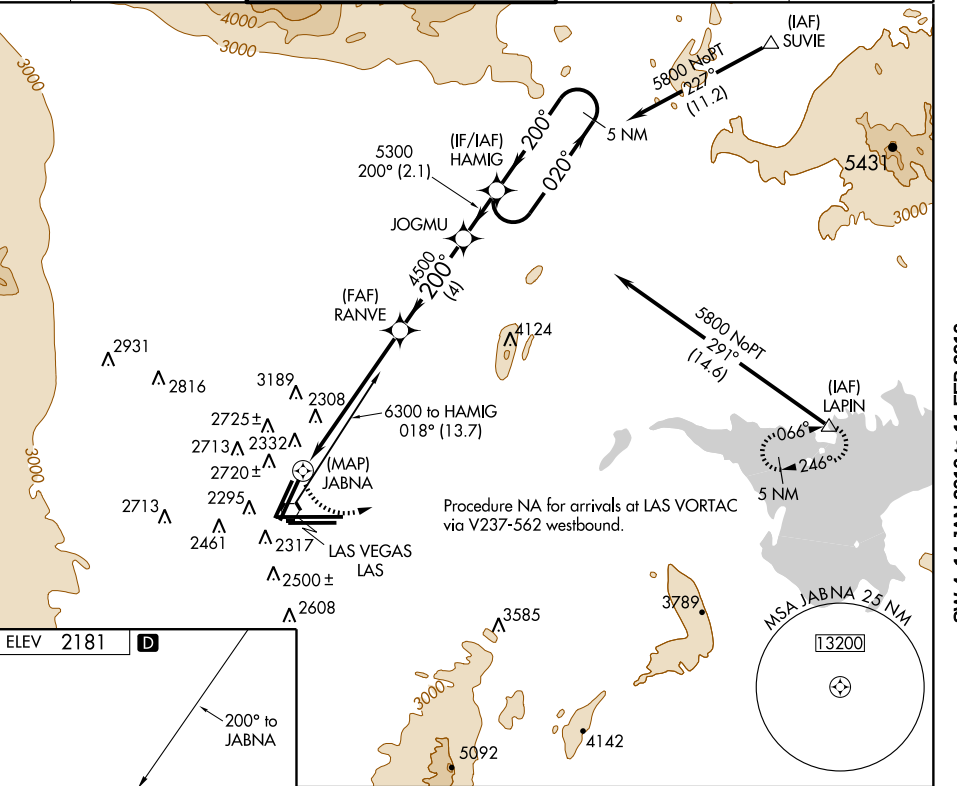
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If local altimeter setting not received, use North Las Vegas altimeter setting and increase all MDAs 40 feet.
DME/DME RNP- 0.3 NA.
VDP NA when using North Las Vegas altimeter setting.

MISSED APPROACH: Climbing left turn to 6000 direct LAPIN and hold.

ATIS 132.4	LAS VEGAS APP CON 125.025 379.15	LAS VEGAS TOWER 118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	GND CON 121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0 379.95
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CATEGORY	A	B	C	D
LNAV MDA	2920-1 807 (800-1)	2920-1¼ 807 (800-1¼)	2920-2¼ 807 (800-2¼)	2920-2½ 807 (800-2½)
CIRCLING	3020-1 839 (900-1)	3020-1¼ 839 (900-1¼)	3080-2¾ 899 (900-2¾)	3080-3 899 (900-3)

SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	8397
201°	TDZE	2117
	Apt Elev	2181

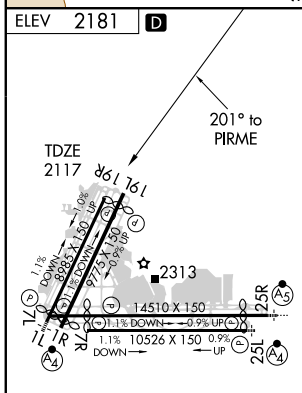
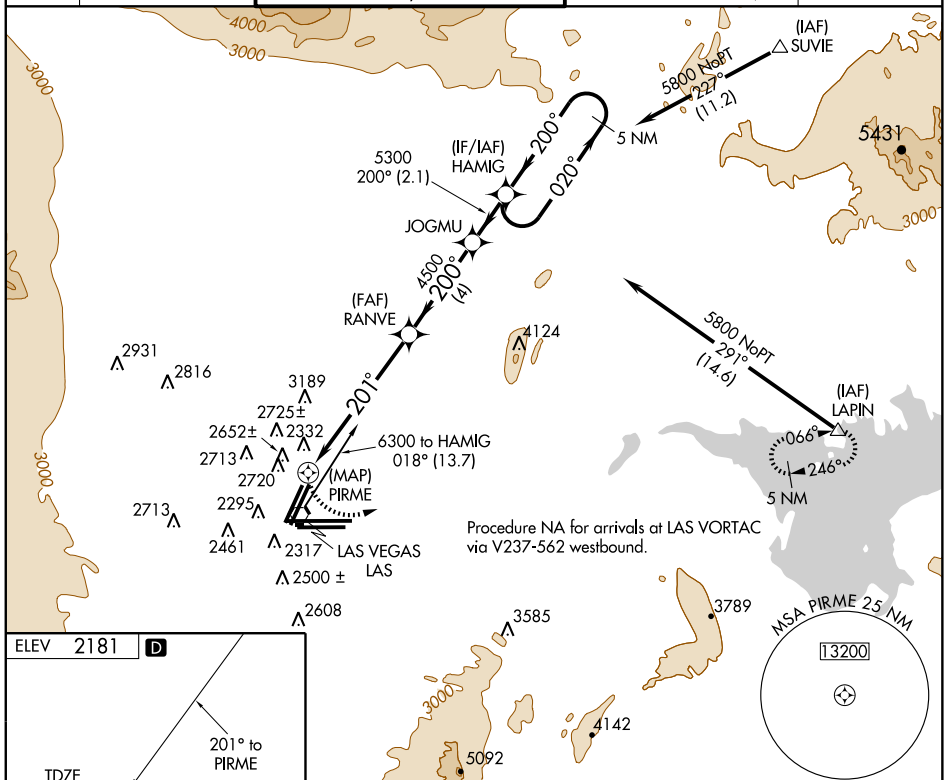
RNAV (GPS) RWY 19R

LAS VEGAS/MC CARRAN INTL (LAS)

- T** If local altimeter setting not received, use North Las Vegas altimeter setting and increase all MDAs 40 feet.
A DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 6000 direct LAPIN and hold.

ATIS 132.4	LAS VEGAS APP CON 125.025 379.15	LAS VEGAS TOWER 118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	GND CON 121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0 379.95
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6000 LAPIN $\triangle$ VGSI and descent angles not coincident. HAMIG 5 NM Holding Pattern RANVE $\leq 3.32^\circ$ TCH 75 PIRME 201° 200° 5300 020° 200° 5800 0.5 6.1 NM 4 NM 2.1 NM				
CATEGORY	A	B	C	D
LNAV MDA	2980-1 863 (800-1)	2980-1 $\frac{1}{4}$ 863 (800-1 $\frac{1}{4}$)	2980-2 $\frac{1}{2}$ 863 (800-2 $\frac{1}{2}$)	2980-2 $\frac{3}{4}$ 863 (800-2 $\frac{3}{4}$)
CIRCLING	3020-1 839 (900-1)	3020-1 $\frac{1}{4}$ 839 (900-1 $\frac{1}{4}$)	3080-2 $\frac{3}{4}$ 899 (900-2 $\frac{3}{4}$)	3080-3 899 (900-3)

REIL Rwys 1L, 1R, 7R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 7L-25R and 7R-25L

SHEAD FIVE DEPARTURE (RNAV)

SL-662 (FAA)

LAS VEGAS/MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

ATIS 132.4
CINC DEL
118.0 379.95
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
127.8 (Rwy 1L/19R, 1R/19L)
127.8 (Rwy 7L/25R, 7R/25L)
LAS VEGAS DEP CON
125.9 307.25

$$Z \leftarrow$$

TAKE-OFF MINIMUMS

Runway 1L, 1100-3 with minimum climb of 490' per NM to 7000.

Runway 1R, 1100-3 with minimum climb of 500' per NM to 7000.

Runways 7L/R. standard with minimum climb of 400' per NM to 8000.

Runways 19L/R, standard with minimum climb of 408' per NM to 9000.

Runway 25L standard with minimum climb of 382' per NM to 9000.

Runway 25R, standard with minimum obstacle climb of 220' per NM to 2400, ATC climb of 387' per NM to 9000.

NOTE: 1. DME/DME/IRU or GPS required.

2. RNAV 1.

3. LSV and BLD must be operational.

4. BTY and TPH must be operational for COALDALE and DOBNE transitions.

NOTE: RADAR REQUIRED

(NOTES CONTINUED ON FOLLOWING PAGE)

COALDALE
OAL
FL250
*14800
317°
(52)

DOBNE

250
4800
3148

BIKKR
FL190

FL10
*8

TARRK
11000

DDOG

2210°

→

LA

CARR
LACARR
LA

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb via 010° course to MEDUW, then left turn direct to cross BESSY at or below 7000, then via 187° track to cross MDDOG at 9000, then via 256° track to cross TARRK at 11000, then via 256° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 1R: Climb via 010° course to PAWEK, then left turn direct to cross BESSY at or below 7000, then via 187° track to cross MDDOG at 9000, then via 256° track to cross TARRK at 11000, then via 256° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 7L: Climb via 075° course to WASTE, then via 075° track to cross BAKRR at or below 7000, then via 144° track to cross MINEY at or above 8000, then via 210° track to HITME, then via 261° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 7R: Climb via 075° course to JESJI, then via 074° track to cross BAKRR at or below 7000, then via 144° track to cross MINEY at or above 8000, then via 210° track to HITME, then via 261° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 19L: Climb via 190° course to FIXIX, then via 227° track to cross ROPPR at or below 7000, then via 210° track to cross MDDOG at 9000, then via 256° track to cross TARRK at 11000, then via 256° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 19R: Climb via 190° course to JAKER, then via 226° track to cross ROPPR at or below 7000, then via 210° track to cross MDDOG at 9000, then via 256° track to cross TARRK at 11000, then via 256° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 25L: Climb via 255° course to PIRMD, then via 186° track to cross ROPPR at or below 7000, then via 210° track to cross MDDOG at 9000, then via 256° track to cross TARRK at 11000, then via 256° track to cross SHEAD at or above 14000. Thence. . .

TAKE-OFF RUNWAY 25R: Climb via 255° course to RBELL, then via 186° track to cross ROPPR at or below 7000, then via 210° track to cross MDDOG at 9000, then via 256° track to cross TARRK at 11000, then via 256° track to cross SHEAD at or above 14000. Thence. . .

....via (Transition) maintain FL190, expect filed altitude 10 minutes after departure

COALDALE TRANSITION (SHEAD5.OAL)

DOBNE TRANSITION (SHEAD5.DOBNE)

TAKE-OFF OBSTACLE NOTES

RWY 1L: Multiple poles, tree, and building 450 feet from DER, 283 feet left of centerline, up to 174' AGL/2132' MSL.

OL on windsock 248 feet from DER, 224 feet right of centerline, 15' AGL/2104' MSL.

RWY 1R: Multiple signs and building 1331 feet from DER, 448 feet right of centerline, up to 100' AGL/2120' MSL.

RWY 7L: Multiple poles and trees 747 feet from DER, 442 feet right of centerline, up to 62' AGL/2062' MSL.

Tree 1257 feet from DER, 789 feet left of centerline, 65' AGL/2077' MSL.

RWY 7R: Lighted windsock 126 feet from DER, 290 feet right of centerline, 25' AGL/2051' MSL.

RWY 19L: Multiple poles, sign, and building 1394 feet from DER, 320 feet right of centerline, up to 51' AGL/2256' MSL.

RWY 19R: Multiple poles, sign, and building 197 feet from DER, 125 feet right of centerline, up to 51' AGL/2256' MSL.

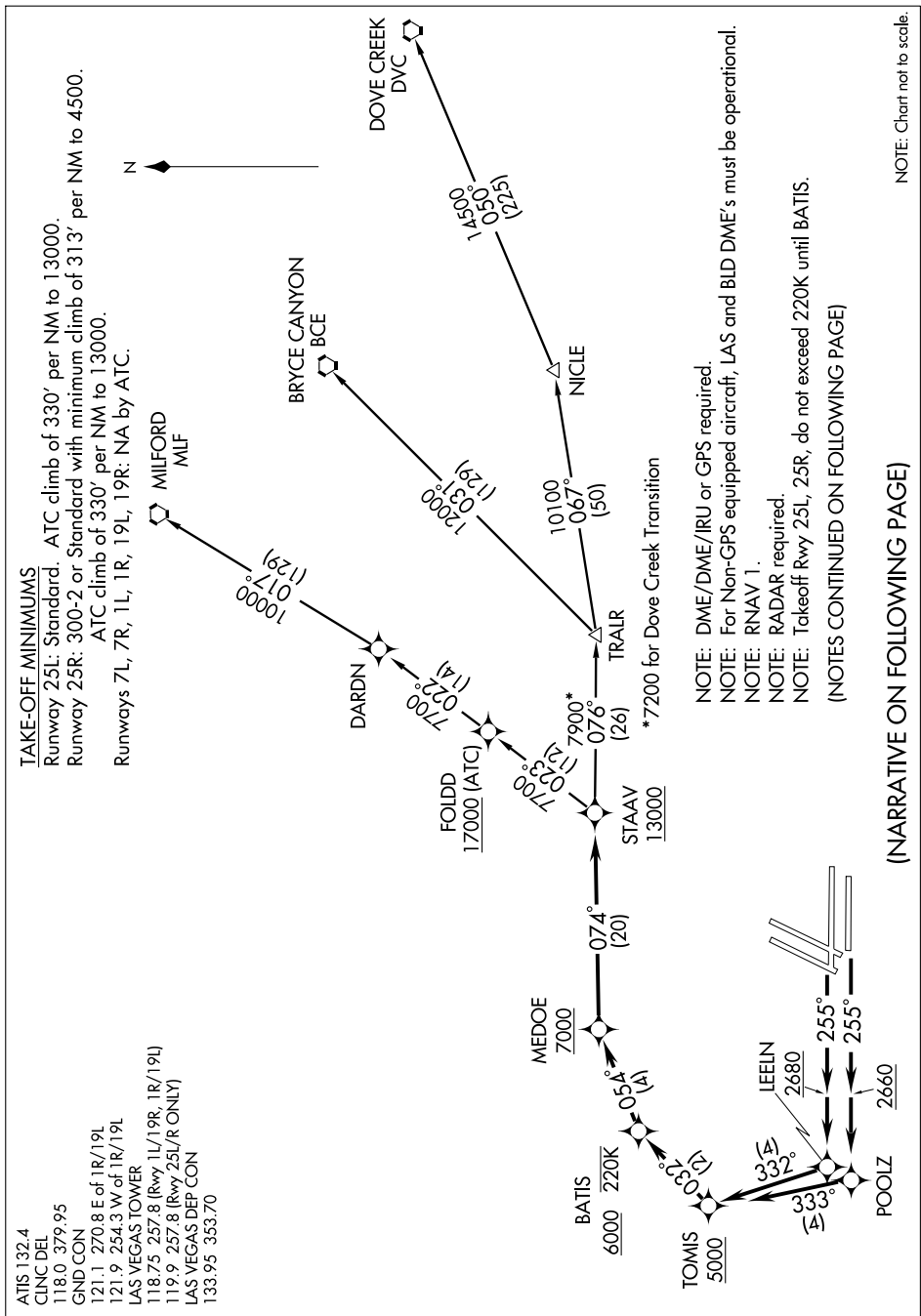
Multiple poles and building 1396 feet from DER, 356 feet left of centerline, up to 47' AGL/2262' MSL.

RWY 25L: Multiple poles, sign, and building 1003 feet from DER, 251 feet left of centerline, up to 63' AGL/2256' MSL.

RWY 25R: Multiple poles and road 675 feet from DER, 17 feet right of centerline, up to 100' AGL/2301' MSL.

Multiple poles and buildings 533 feet from DER, 1 foot left of centerline, up to 150' AGL/2469' MSL.

STAAV FOUR DEPARTURE (RNAV)



STAAV FOUR DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25R: Climb heading 255° to 2680', then direct LEELN, then via 332° track to cross TOMIS at or above 5000', then via 032° track to cross BATIS at or above 6000', then via 054° track to cross MEDOE at or above 7000', then via 074° track to cross STAAV at or above 13000, thence....

TAKE-OFF RUNWAY 25L: Climb heading 255° to 2660', then direct POOLZ, then via 333° track to cross TOMIS at or above 5000', then via 032° track to cross BATIS at or above 6000', then via 054° track to cross MEDOE at or above 7000', then via 074° track to cross STAAV at or above 13000, thence....

... via (transition) maintain FL190, expect filed altitude 10 minutes after departure.

BRYCE CANYON TRANSITION (STAAV4.BCE)

DOVE CREEK TRANSITION (STAAV4.DVC)

MILFORD TRANSITION (STAAV4.MLF)

TAKE-OFF OBSTACLE NOTES

Rwy 25R: Lt. pole 3115' from DER, 1033' right of centerline, 92' AGL/2301' MSL.

Multiple Lt. poles beginning 1.6 NM from DER, 2836' left of centerline, up to 130' AGL/2469' MSL.

OL on sign 884' from DER, 710' left of centerline, 34' AGL/2233' MSL.

Multiple trees beginning 953' from DER, 522' right of centerline, up to 44' AGL/2237' MSL.

Multiple trees beginning 954' from DER, 546' left of centerline, up to 40' AGL/2245' MSL.

OL DME 533' from DER, 445' left of centerline, 18' AGL/2207' MSL.

Bldg 1822' from DER, 652' left of centerline, 59' AGL/2238' MSL.

Road 669' from DER, 477' left of centerline, 29' AGL/2208' MSL.

Rod on bldg 534' from DER, 369' left of centerline, 13' AGL/2202' MSL.

Road 678' from DER, 17' right of centerline, 15' AGL/2201' MSL.

OL on LOC 534' from DER, 1' from centerline, 6' AGL/2195' MSL.

Rwy 25L: Pole 2861' from DER, 813' left of centerline, 36' AGL/2236' MSL.

Sign 3672' from DER, 1303' left of centerline, 37' AGL/2256' MSL.

RR 2564' from DER, 773' left of centerline, 17' AGL/2223' MSL.

Tree 2838' from DER, 1008' left of centerline, 21' AGL/2230' MSL.

Ant. on bldg 1003' from DER, 251' left of centerline, 13' AGL/2183' MSL.

Pole 3677' from DER, 145' left of centerline, 40' AGL/2249' MSL.

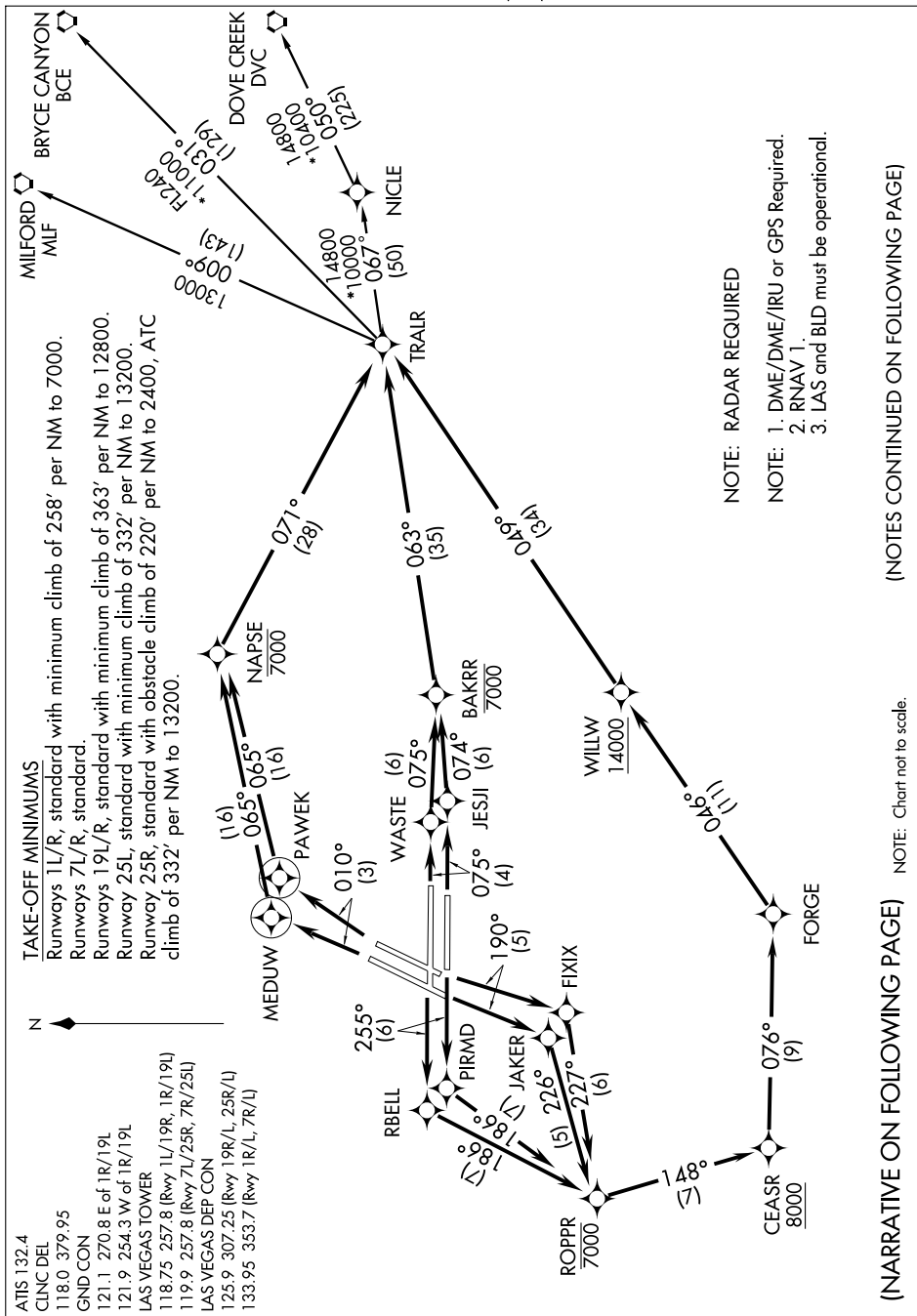
Bldg 4719' from DER, 1757' left of centerline, 61' AGL/2290' MSL.

Bldg 4953' from DER, 1697' left of centerline, 61' AGL/2291' MSL.

Bldg 4612' from DER, 1400' left of centerline, 54' AGL/2281' MSL.

TRALR TWO DEPARTURE (RNAV)

SL-662 (FAA)

LAS VEGAS/MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb via 010° course to MEDUW WP, then via 065° track to cross NAPSE WP at or below 7000, then via 071° track to TRALR WP. Thence. . .

TAKE-OFF RUNWAY 1R: Climb via 010° course to PAWEK WP, then via 065° track to cross NAPSE WP at or below 7000, then via 071° track to TRALR WP. Thence. . .

TAKE-OFF RUNWAY 7L: Climb via 075° course to WASTE WP, then via 075° track to cross BAKRR WP at or below 7000, then via 063° track to TRALR WP. Thence. . .

TAKE-OFF RUNWAY 7R: Climb via 075° course to JESJI WP, then via 074° track to cross BAKRR WP at or below 7000, then via 063° track to TRALR WP. Thence. . .

TAKE-OFF RUNWAY 19L: Climb via 190° course to FIXIX WP, then via 227° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 076° track to FORGE WP, then via 046° track to cross WILLW WP at or above 14000, then via 049° track to TRALR WP. Thence....

TAKE-OFF RUNWAY 19R: Climb via 190° course to JAKER WP, then via 226° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 076° track to FORGE WP, then via 046° track to cross WILLW WP at or above 14000, then via 049° track to TRALR WP. Thence....

TAKE-OFF RUNWAY 25L: Climb via 255° course to PIRMD WP, then via 186° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 076° track to FORGE WP, then via 046° track to cross WILLW WP at or above 14000, then via 049° track to TRALR WP. Thence....

TAKE-OFF RUNWAY 25R: Climb via 255° course to RBELL WP, then via 186° track to cross ROPPR WP at or below 7000, then via 148° track to cross CEASR WP at or above 8000, then via 076° track to FORGE WP, then via 046° track to cross WILLW WP at or above 14000, then via 049° track to TRALR WP. Thence...

....via (Transition) maintain FL190, expect filed altitude 10 minutes after departure.

BRYCE CANYON TRANSITION (TRALR2.BCE)

DOVE CREEK TRANSITION (TRALR2.DVC)

MILFORD TRANSITION (TRALR2.MLF)

TAKE-OFF OBSTACLE NOTES

RWY 1L: Multiple poles, tree, and building 450 feet from departure end of rwy, 283 feet left of centerline, up to 174' AGL/2132' MSL.
OL on windsock 248 feet from departure end of rwy, 224 feet right of centerline, 15' AGL/2104' MSL.

RWY 1R: Multiple signs and building 1331 feet from departure end of rwy, 448 feet right of centerline, up to 100' AGL/2120' MSL.

RWY 7L: Multiple poles and trees 747 feet from departure end of rwy, 442 feet right of centerline, up to 62' AGL/2062' MSL.
Tree 1257 feet from departure end of rwy, 789 feet left of centerline, 65' AGL/2077' MSL.

RWY 7R: Lighted windsock 126 feet from departure end of rwy, 290 feet right of centerline, 25' AGL/2051' MSL.

RWY 19L: Multiple poles, sign, and building 1394 feet from departure end of rwy, 320 feet right of centerline, up to 51' AGL/2256' MSL.

RWY 19R: Multiple poles, sign, and building 197 feet from departure end of rwy, 125 feet right of centerline, up to 51' AGL/2256' MSL.

Multiple poles and building 1396 feet from departure end of rwy, 356 feet left of centerline, up to 47' AGL/2262' MSL.

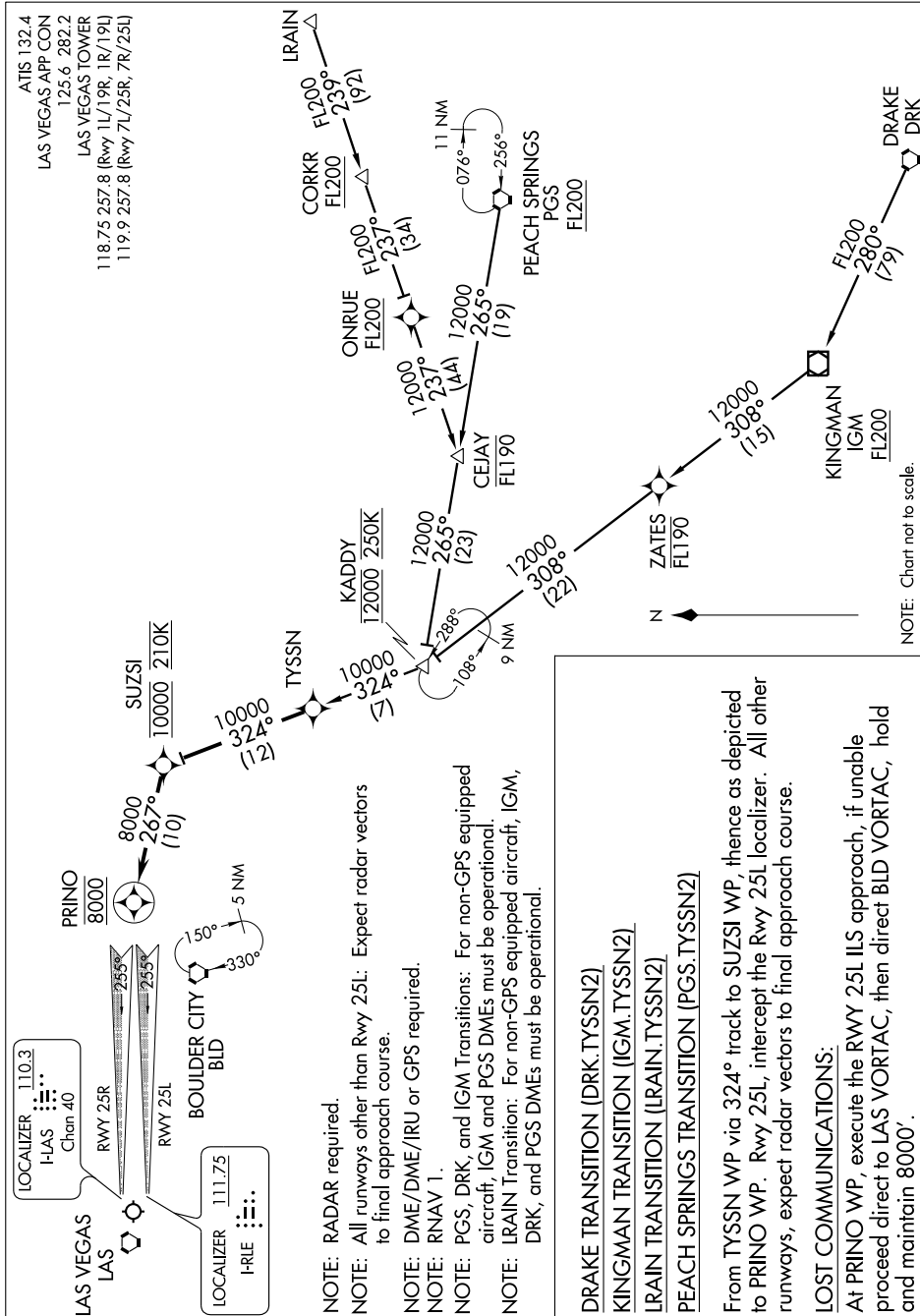
RWY 25L: Multiple poles, sign, and building 1003 feet from departure end of rwy, 251 feet left of centerline, up to 63' AGL/2256' MSL.

RWY 25R: Multiple poles and road 675 feet from departure end of rwy, 17 feet right of centerline, up to 100' AGL/2301' MSL.

Multiple poles and buildings 533 feet from departure end of rwy, 1 foot left of centerline, up to 150' AGL/2469' MSL.

TYSSN TWO ARRIVAL (RNAV)

ST-662 (FAA)

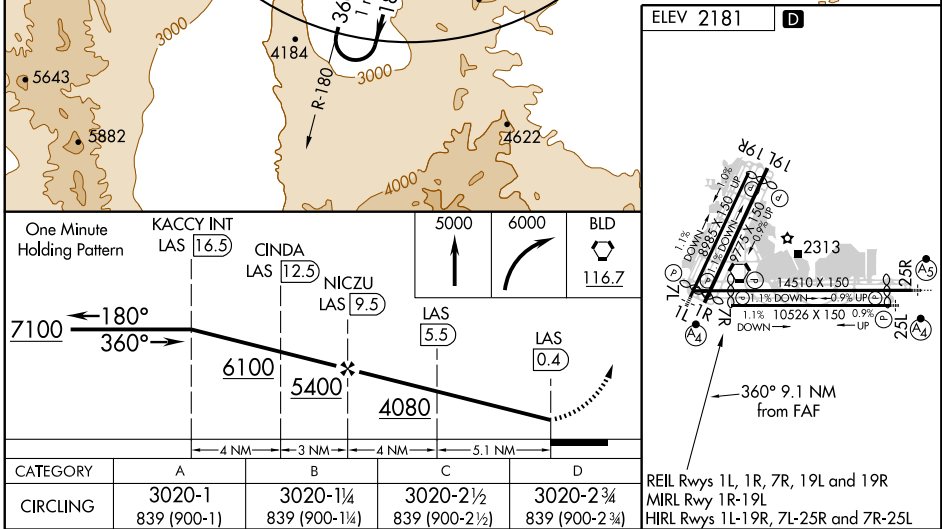
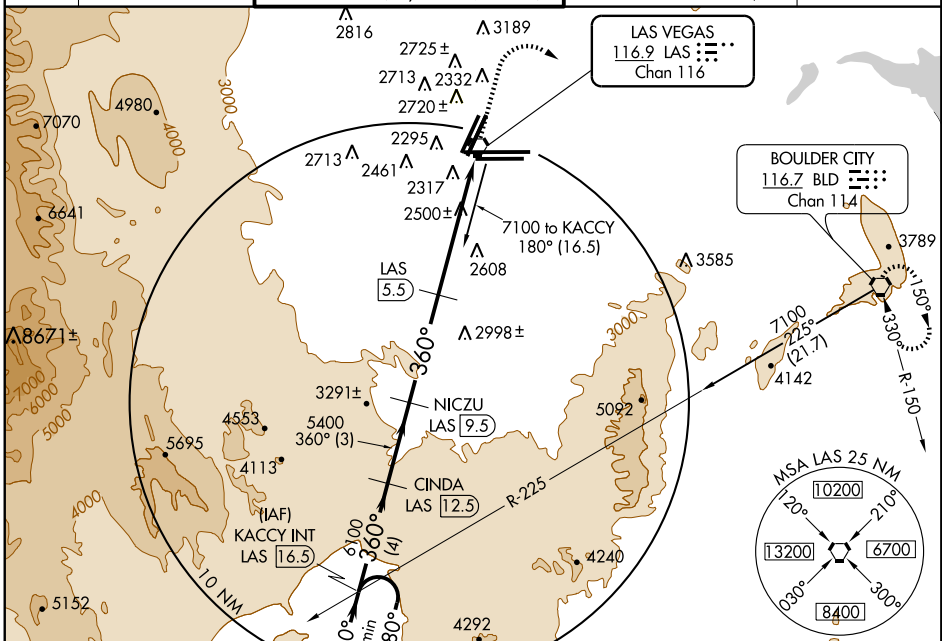
MC CARRAN INTL
LAS VEGAS, NEVADA

VORTAC LAS <u>116.9</u> Chan 116	APP CRS 360°	Rwy Idg TDZE Apt Elev	N/A N/A 2181
--	------------------------	-----------------------------	---

VOR/DME-A

LAS VEGAS/MC CARRAN INTL (LAS)

		MISSED APPROACH: Climb to 5000 then climbing right turn to 6000 direct BLD VORTAC and hold.			
ATIS 132.4	LAS VEGAS APP CON 125.025 379.15	LAS VEGAS TOWER 118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)		GND CON 121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0 379.95



⚠

Inoperative table does not apply to MALSR Rwy 25R.

⚠

Inoperative table does not apply to MALSF Rwy 25L

Cat. C.

MALSF

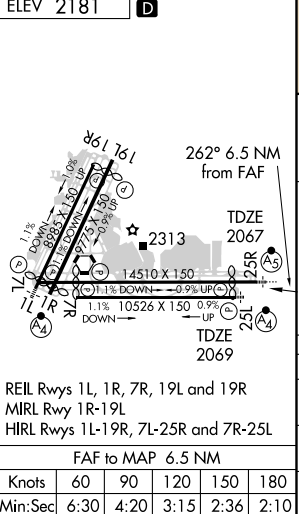
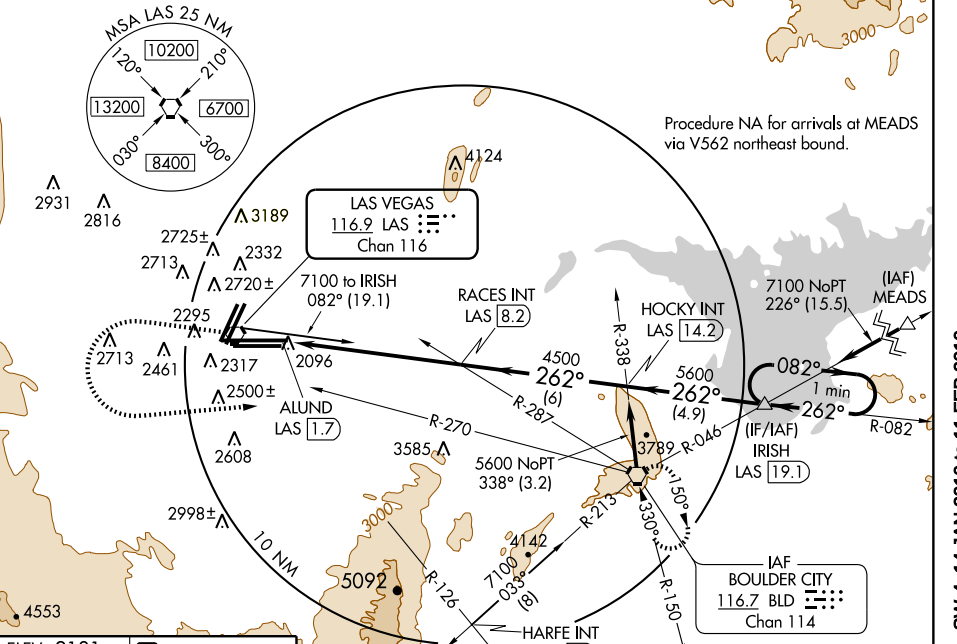
Rwy 25L

MALSR

Rwy 25R

MISSED APPROACH: Climb to 4000 then climbing left turn to 6000 via heading 070° and BLD R-270 to BLD VORTAC and hold.

ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL
132.4	125.025 379.15	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0 379.95



One Minute Holding Pattern				
IRISH INT LAS 19.1				
HOCKY INT LAS 14.2				
RACES INT LAS 8.2				
ALUND LAS 1.7				
4500, 5600, 262°, 082°, 7100				
6.5 NM, 6 NM, 4.9 NM				
CATEGORY	A	B	C	D
S-25R	2720-1 653 (600-1)		2720-1 3/4 653 (600-1 3/4)	2720-2 653 (600-2)
S-25L	2720-3/4 651 (600-3/4)		2720-1 3/4 651 (600-1 3/4)	2720-2 651 (600-2)
CIRCLING	3020-1 839 (900-1)	3020-1 1/4 839 (900-1 1/4)	3020-2 1/2 839 (900-2 1/2)	3040-2 3/4 859 (900-2 3/4)

SW-4, 14 JAN 2010 to 11 FEB 2010

ATIS 270.1
NELLIS TOWER
132.55 327.0
GND CON
121.8 275.8
CLNC DEL
120.9 289.4

36°15'N
VAR 12.5°E
AUGUST 2009
ANNUAL RATE OF CHANGE
0.2° W

WATER TOWER
★
2014

FIRE STATION

26 (125' AGL)
FLOODLIGHTS
ALONG W EDGE
OF MAIN APRON

ALPHA NORTH EOR

RED FLAG
RAMP ROWS
3-9

SOUTHWEST
EOR SHACK

SOUTHWEST
EOR PAD

RWY 3L-21R
PCN 43 R/C/W/T
RWY 3R-21L
PCN 52 R/C/W/T

2017

ELEV 1886
JOLLY
PAD
2 (125' AGL)
FLOODLIGHTS

TRANSIENT
PAD
TRANSIENT
WEST
ELEV 1880
BASE OPS

FIELD
ELEV 1870

PRIMARY
HAZARDOUS
CARGO
AREA
ELEV 1860

TRANSIENT
EAST
FIRE
STATION 2

CONTROL
TOWER

8 (125' AGL)
FLOODLIGHTS

LIVE ORDNANCE
LOADING AREA

BOMBER PAD

REVTMENT

15 (125' AGL)
FLOODLIGHTS

36°13'N

115°02'W

115°01'W

36°14'N

115°03'W

BAK-12
ELEV 1840
ELEV 1834
ELEV 1835
1000 x 200
0.3% UP
0.4% UP
0.28.7°
0.28.7°
1000 x 150
ELEV 1826

BAK-12
10,123 x 200
208.7°
BAK-12
10,035 x 150
208.7°
ELEV 1866
ELEV 1870

DREAM TWO DEPARTURE (DREAM 2 • DREAM)

LAS VEGAS, NEVADA

ATIS 270.1
CLNC DEL
120.9 289.4
GND CON
121.8 275.8
NELLIS TOWER
132.55 327.0
NELLIS DEP CON
135.1 385.4

SHL-227 [USAF]

Rwy	Knots	60	120	180	240	300	360
* 3 L (a)	V/V(fpm)	300	600	900	1200	1500	1800
* 3 R (b)	V/V(fpm)	240	480	720	960	1200	1400
† 3 L (c)	V/V(fpm)	500	1000	1500	2000	2490	2990
† 3 R (c)	V/V(fpm)	500	1000	1490	1990	2480	2980
* 21 L/R (d)	V/V(fpm)	400	800	1200	1600	2000	2400
† 21 L (c)	V/V(fpm)	460	920	1370	1830	2280	2740
† 21 R (c)	V/V(fpm)	460	920	1380	1840	2300	2760

* Minimum † ATC Climb Rate

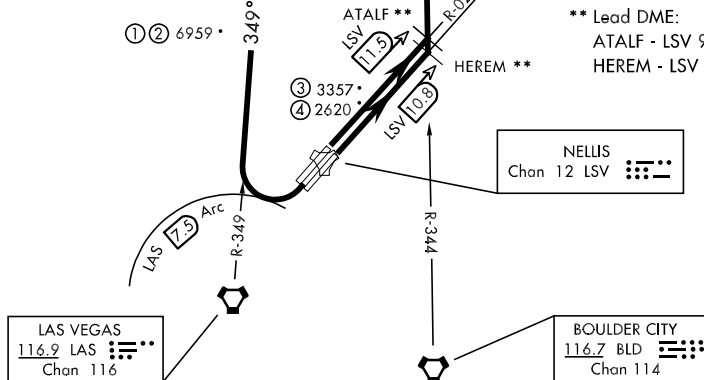
- (a) to 3600
(b) to 3000
(c) to 17,000
(d) to 8500

NOT FOR CIVIL USE

- 12.24 NM from Rwy 21R
- 12.40 NM from Rwy 21L
- 5.67 NM from Rwy 3L
- 5.85 NM from Rwy 3R

CAUTION: If unable to comply with restrictions advise ATC prior to departure.

** Lead DME:
ATALF - LSV 9.5
HEREM - LSV 8.8



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L: Fly runway heading to intercept the LSV TACAN R-025 then direct ATALF, intercept the BLD VORTAC R-344 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 3R: Fly runway heading to intercept the LSV TACAN R-028 then direct HEREM, intercept the BLD VORTAC R-344 then direct JUNNO, cross JUNNO at or above 17,000. Then via assigned route.

TAKE-OFF RWY 21L/R: Turn right to intercept LAS VORTAC R-349 outbound. Remain North of LAS 7.5 DME turning Northbound. Intercept LAS R-349 between 5000 and 6000, do not proceed West of LAS R-349. Cross MINTT at above 17,000, then via assigned route.

NOISE ABATEMENT PROCEDURES: Fly IAW Nellis Noise Abatement instructions published in AP/1.

LOC I-DIQ 109.1	APCH CRS 207°	Rwy Idg TDZE Arpt Elev 10,055 1866 1870
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JAL-227 [USAF]

NELLIS AFB (KLSV)

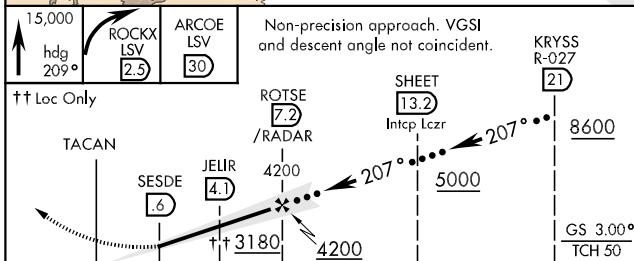
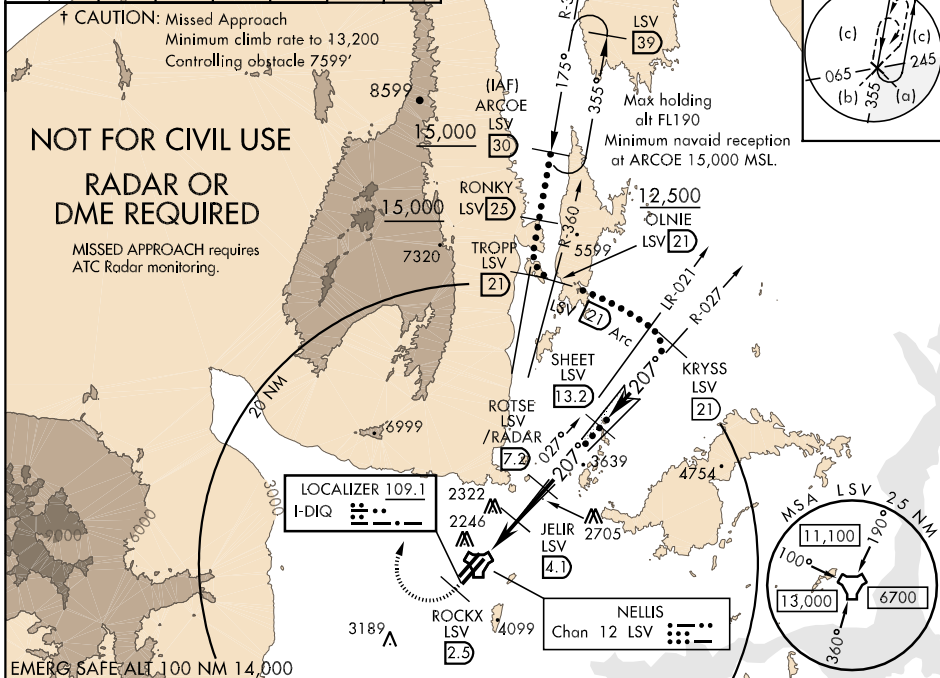
▼ * When ALS inop, increase CAT CDE RVR to 40, vis to ¾ mile.
 ** When ALS inop, increase CAT C vis to 1½ miles, CAT D vis to 1¾ miles, CAT E vis to 2 miles.
 *** Circling not authorized E of Rwy 3R-21L.



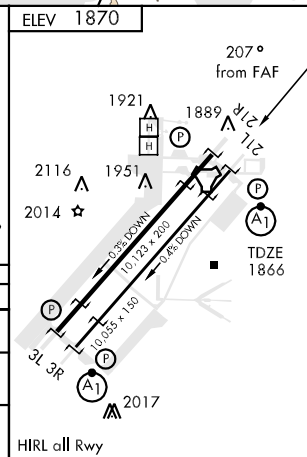
† MISSED APPROACH: Climb to 15,000, heading 209° to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV TACAN R-355 to ARCOE and hold, continue climb-in-hold to 15,000.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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Knots	60	120	180	240	300	360
V/V (ft/min)	470	940	1410	1880	2350	2820



CATEGORY	C	D	E
S-ILS 21L *	2066/24	200	(200-½)
S-LOC 21L **	2440/50 574 (600-1)	2440/60 574 (600-1¼)	2440-1½ 574 (600-1½)
CIRCLING ***	2680-2¼ 810 (900-2¼)	2680-2½ 810 (900-2½)	2940-3 1070 (1100-3)



TACAN LSV
Chan 12

APCH CRS
026°

Rwy Idg 10,055
TDZE 1830
Arpt Elev 1870

JAL-227 [USAF]

NELLIS AFB (KLSV)

▼ ** When ALS inop, increase CAT C RVR to 60, vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
*** Circling not authorized E of Rwy 3R-21L.



* MISSED APPROACH: Climb to 9000 on LSV R-028 to VETTT and hold, continue climb in hold to 9000.

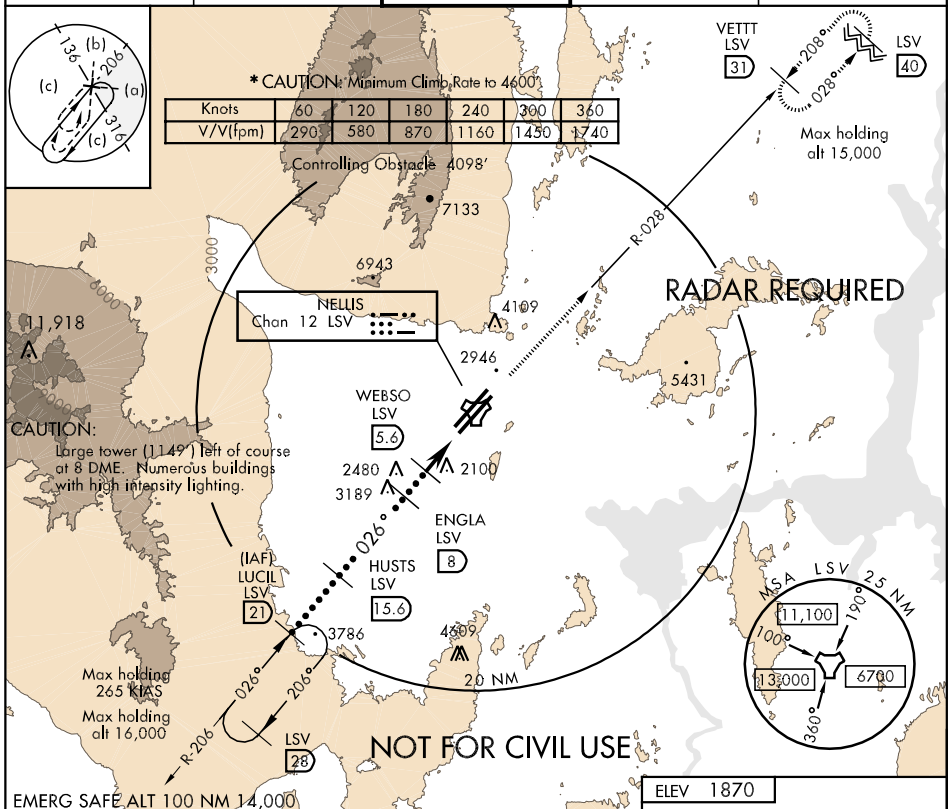
ATIS
270.1

NELLIS APP CON
124.95 273.55

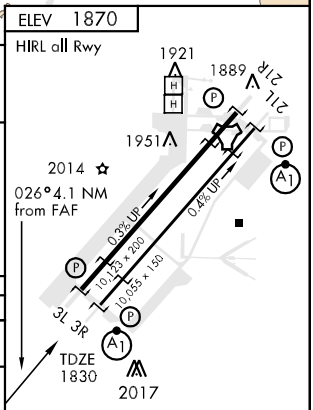
NELLIS TOWER
132.55 327.0

GND CON
121.8 275.8

CLNC DEL
120.9 289.4



ELEV 1870			
HIRL all Rwy			
9000 LSV R-028 VETTT			
10,000 6300 3900 3200 3.00° TCH 53			
LUCIL 21 HUSTS 15.6 ENGLA 8 WEB SO 5.6 2.9 CEDRU 2 TACAN 3.6 NM 0.5			
CATEGORY	C	D	E
S-3R **	2320/40 490 (500-¾)	2320/50 490 (500-1)	2320/60 490 (500-1¼)
CIRCLING ***	2680-2¼ 810 (900-2¼)	2680-2½ 810 (900-2½)	2940-3 1070 (1100-3)



TACAN LSV Chan 12	APCH CRS 207°	Rwy Idg 10,055 TDZE 1866 Arpt Elev 1870
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JAL-227 [USAF]

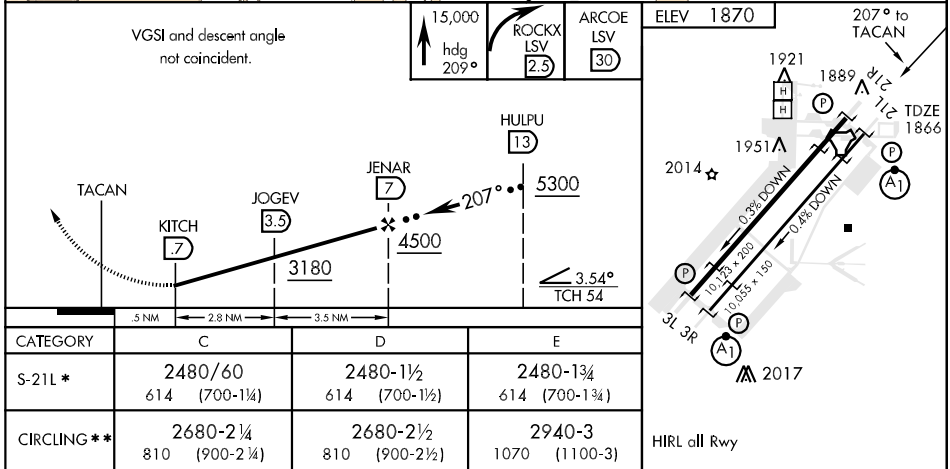
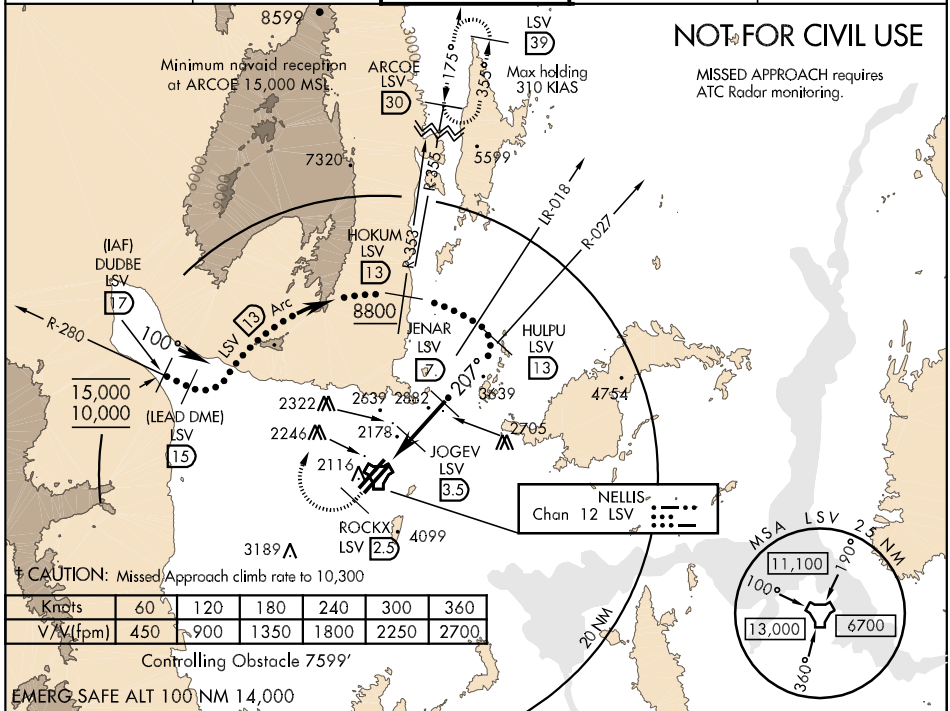
NELLIS AFB (KLSV)

▼ * When ALS inop, increase CAT C vis to 1½ miles,
CAT D vis to 2 miles, CAT E vis to 2¼ miles.
** Circling not authorized E of Rwy 3R-21L.

ALSF-1
A1

† MISSED APPROACH: Climb to 15,000, heading 209°
to 2.5 DME (ROCKX), then climbing right turn heading
020° to join LSV TACAN R-355 to ARCOE and hold,
continue climb in hold to 15,000..

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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TACAN LSV Chan 12	APCH CRS 207°	Rwy Idg 10,055 TDZE 1866 Arpt Elev 1870
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JAL-227 [USAF]

NELLIS AFB (KLSV)

T * When ALS inop, increase CAT C vis to 1¾ miles, CAT D vis to 2 miles, CAT E vis to 2¼ miles.
** Circling not authorized E of Rwy 3R-21L.

ALISE 1

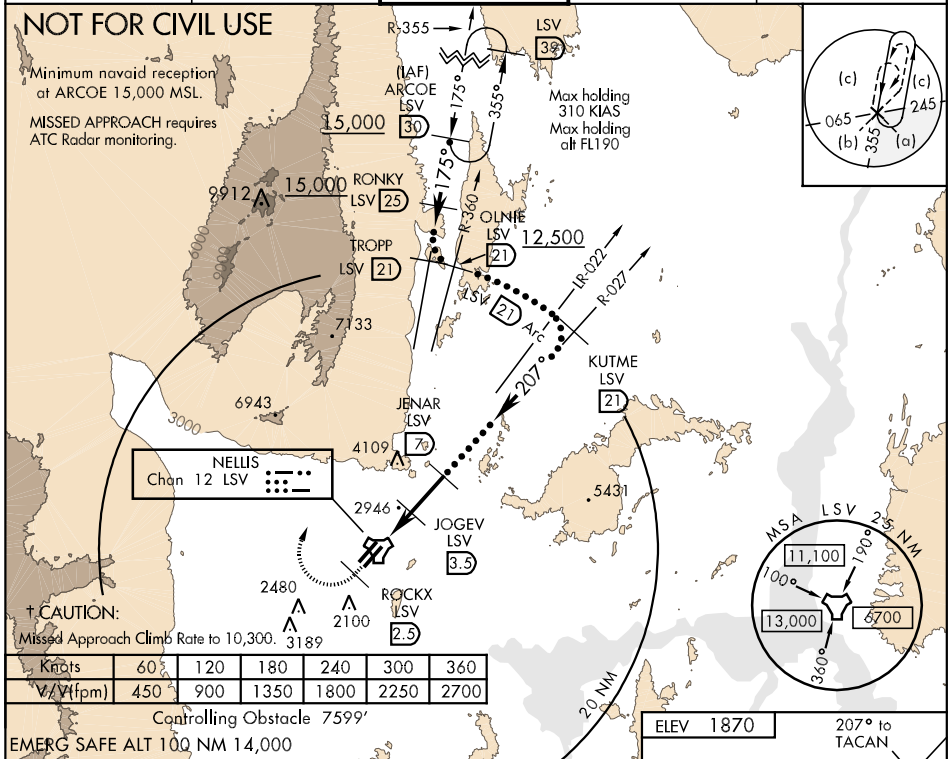
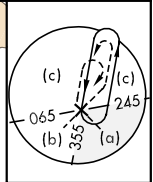
† MISSED APPROACH: Climb to 15,000, heading 209° to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV TACAN R-355 to ARCOE and hold, continue climb in hold to 15,000.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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NOT FOR CIVIL USE

Minimum navaid reception
at ARCOE 15,000 MSL.

MISSED APPROACH requires ATC Radar monitoring.



15,000
hdg 209°

ROCKX LSV
2.5

ARCOE LSV
30

VGS1 and descent angle not coincident.

KUTME R-027
21

TACAN

KITCH 7

JOGEV 3.5

JENAR 7

3180

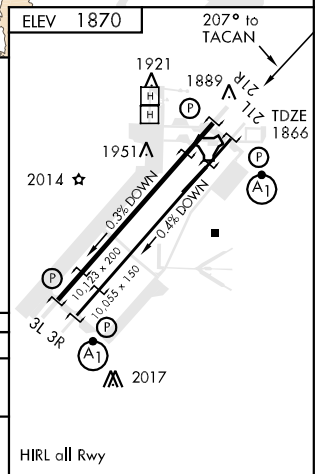
4500

207°

8800

3.54°
TCH 54

CATEGORY	C	D	E
S-21L *	2480/60 614 (700-1¼)	2480-1½ 614 (700-1½)	2480-1¾ 614 (700-1¾)
CIRCLING **	2680-2¼ 810 (900-2¼)	2680-2½ 810 (900-2½)	2940-3 1070 (1100-3)



*** Circling not authorized E of Rwy 3R-21L.

† CAUTION: Missed Approach
Minimum climb rate to 18,200

8599

ARCOE LSV 30

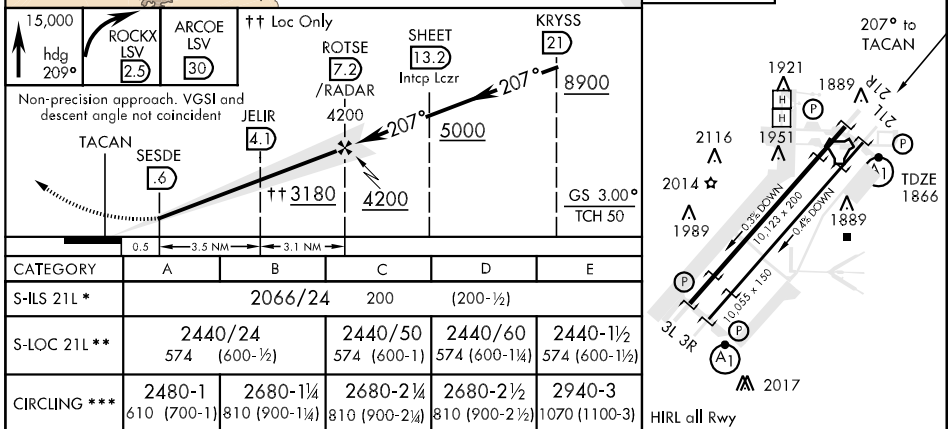
LSV 39

**NOT FOR CIVIL USE
RADAR OR
DME REQUIRED**

Minimum navoid reception at
ARCOE 15,000 MSL.

MISSED APPROACH requires
ATC Radar monitoring.

Knots	60	120	180	240	300	360
V/V(fpm)	470	940	1410	1880	2350	2820



SW-4, 14 JAN 2010 to 11 FEB 2010

SHL-227 [USAF]

ATIS
270.1
CLNC DEL
120.9 289.4
GND CON
121.8 275.8
NELLIS TOWER
132.55 327.0
NELLIS DEP CON
135.1 385.4
LOS ANGELES CENTER
124.2 134.65 307.9 343.6

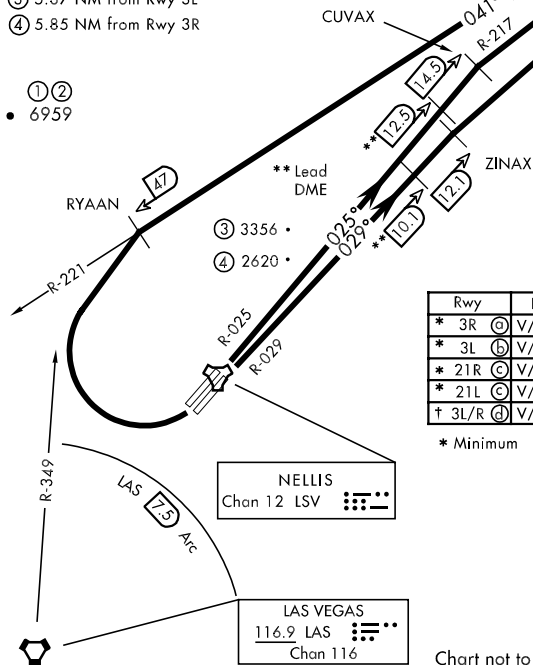
MORMON MESA
114.3 MMM
Chan 90
L-9, H-3

RADAR REQUIRED ABOVE FL190

- ① 12.24 NM from Rwy 21R
- ② 12.40 NM from Rwy 21L
- ③ 5.67 NM from Rwy 3L
- ④ 5.85 NM from Rwy 3R

① ②
• 6959

CAUTION: If unable to comply with restrictions advise ATC prior to departure



Rwy	Knots	60	120	180	240	300	360
* 3R (a)	V/V(fpm)	250	500	750	1000	1250	1500
* 3L (b)	V/V(fpm)	330	660	990	1320	1650	1980
* 21R (c)	V/V(fpm)	540	1080	1620	2160	2700	3240
* 21L (c)	V/V(fpm)	530	1060	1590	2120	2650	3180
† 3L/R (d)	V/V(fpm)	360	720	1080	1440	1800	2160

* Minimum

† ATC Climb Rate

(a) To 3100

(b) To 3900

(c) To 17,000

(d) To 19,000

Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L: Fly runway heading to intercept LSV TACAN R-025 then direct CUVAX, intercept the MMM VORTAC R-217 then direct MMM climbing to FL190 or as assigned, then via assigned route.

TAKE-OFF RWY 3R: Fly runway heading to intercept LSV TACAN R-029 then direct ZINAX, intercept the MMM VORTAC R-215 then direct MMM climbing to FL190 or as assigned, then via assigned route.

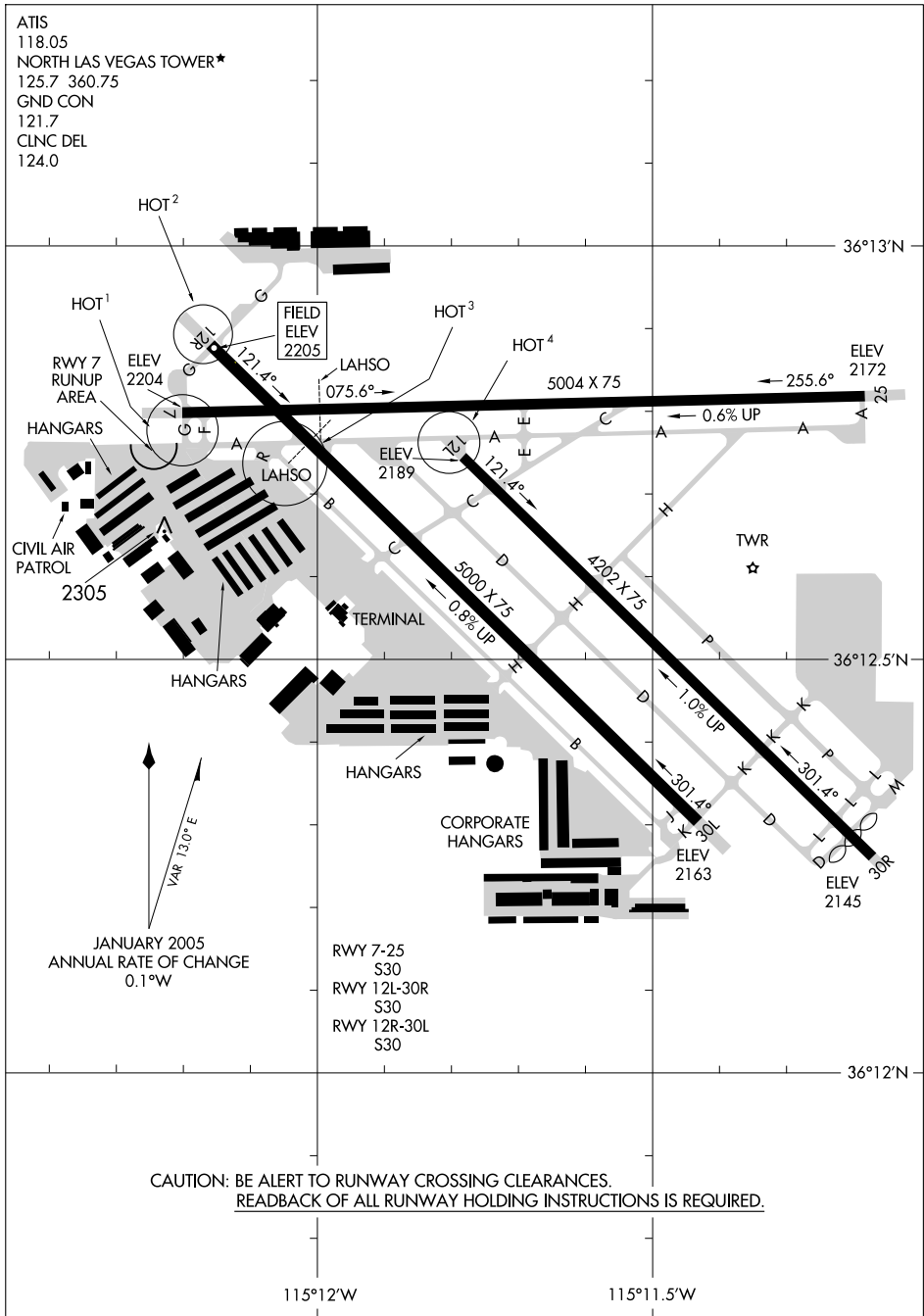
TAKE-OFF RWY 21L/R: Turn right to intercept MMM VORTAC R-221 prior to MMM 47 DME, remain North of the LAS VORTAC 7.5 DME, remain East of LAS R-349, intercept MMM R-221 then direct MMM, cross MMM at or above FL190 then via assigned route.

NOISE ABATEMENT PROCEDURES: Fly IAW Nellis Noise Abatement instructions published in AP/1.

Appendix 2: 00251

AIRPORT DIAGRAM

AL-6970 (FAA)

LAS VEGAS/NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA

ATIS 118.05
 GND CON 121.7
 UNICOM 122.95
 CTAF 125.7

TAKE-OFF MINIMUMS

Rwy 7: Standard with minimum climb of 339' per NM to 3600 or...
 Rwy 12L: Standard with minimum climb of 393' per NM to 3600 or...
 Rwy 12R: Standard with minimum climb of 373' per NM to 3600 or...
 Rwy 25: Standard with minimum climb of 257' per NM to 4500 or...
 Rwy 30R: Standard with minimum climb of 354' per NM to 4700 or...
 Rwy 30L: Standard with minimum climb of 367' per NM to 4700 or...

...2100-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

- Rwy 7: Tower 1.1 NM from DER, 1044' right of centerline, 252' AGL/2348' MSL.
 Rwy 12R: Multiple towers 1.0 NM from DER, 850' right of centerline, up to 267' AGL/2368' MSL. Tower 1.2 NM from DER, 1355' right of centerline, 270' AGL/2367' MSL. Power lines 1122' from DER, 764' right of centerline, traversing to the southeast out to 2345' from DER, 510' right of centerline, 106' AGL/2344' MSL.
 Rwy 12L: Light pole 254' from DER, 462' right of centerline, 36' AGL/2159' MSL. Trucks on road 255' from DER, 502' right of centerline, 15' AGL/2155' MSL. Powerlines 1289' from DER, 663' right of centerline traversing to the northeast out to 1576' from DER, 716' left of centerline, up to 129' AGL/2226' MSL. Multiple towers 5045' from DER, 1551' right of centerline, 267' AGL/2368' MSL.
 Rwy 25: Light pole 1447' from DER, 21' right of centerline, 35' AGL/2255' MSL.
 Rwy 30L: Signs, building, light pole beginning 1692' from DER, 236' left of centerline, up to 49' AGL/2271' MSL. Multiple trees beginning 1785' from DER, 78' right of centerline, up to 57' AGL/2296' MSL. Tree, multiple towers/antennas beginning 2745' from DER, 511' left of centerline, up to 84' AGL/2397' MSL.
 Rwy 30R: Antenna tower 4639' from DER, 1736' left of centerline, 84' AGL/2327' MSL. Anemometer 552' from DER, 570' left of centerline, 34' AGL/2216' MSL. Vent on building 1632' from DER, 566' right of centerline, 58' AGL/2240' MSL. Antenna on hangar 2012' from DER, 195' right of centerline, 61' AGL/2247' MSL.

LAS VEGAS
 116.9 LAS
 Chan 116
 N36°04.78'-W115°09.59'

4000

094°
 (15)

BOULDER CITY
 116.7 BLD
 Chan 114
 N35°59.75'-W114°51.81'
 L-7, H-4

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7, 12 L/R: Turn right.

TAKE-OFF RUNWAYS 25, 30L/R: Turn left.

All aircraft climb to 6000 via heading 220° and LAS-300 to LAS VORTAC, cross LAS VORTAC at or above 4000. Continue climb via LAS VORTAC R-094 to BLD VORTAC.

RUNWAYS 7, 12L/R, 25, 30L/R: For climb in visual conditions: cross North Las Vegas Airport at or above 4200 then via BLD VORTAC R-294 to BLD VORTAC.

CLARR TWO ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA

LAS VEGAS APP CON

125.025 282.2

LAS VEGAS TOWER

118.75 257.8 (Rwy 1L/19R, 1R/19L)

119.9 257.8 (Rwy 7L/25R, 7R/25L)

NORTH LAS VEGAS TOWER*

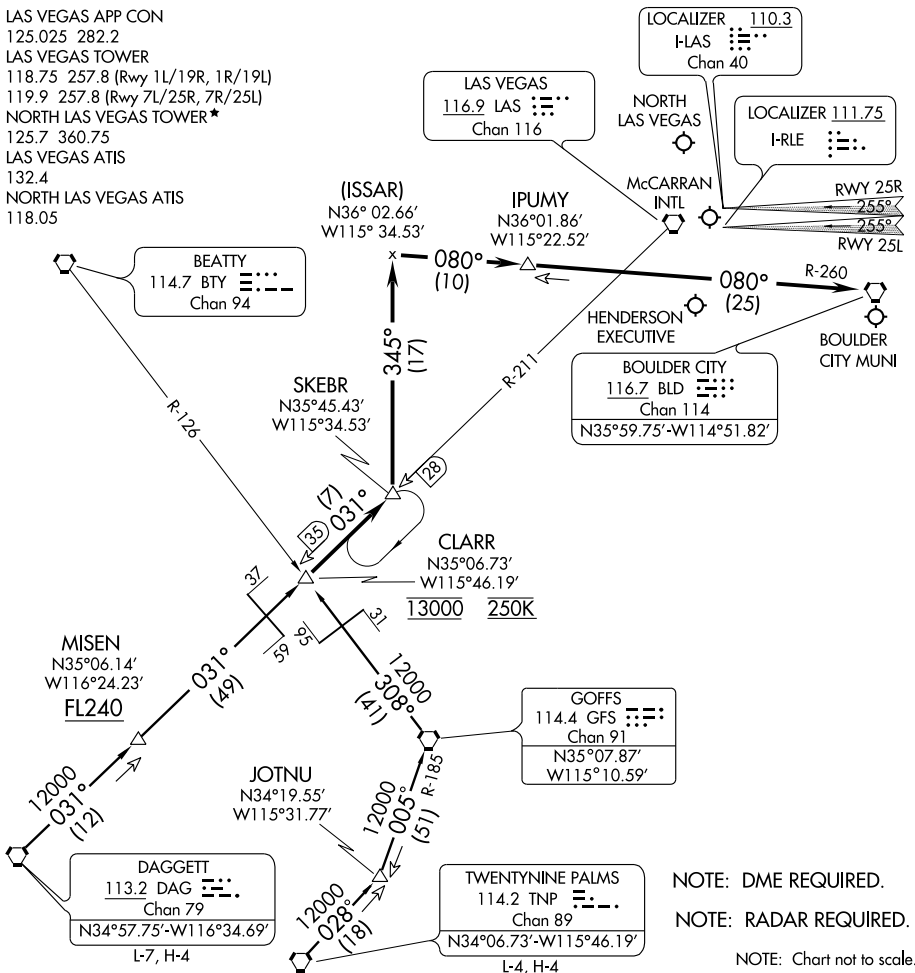
125.7 360.75

LAS VEGAS ATIS

132.4

NORTH LAS VEGAS ATIS

118.05



NOTE: DME REQUIRED.

NOTE: RADAR REQUIRED.

NOTE: Chart not to scale.

DAGGETT TRANSITION (DAG.CLARR2): From over DAG VORTAC via DAG R-031 and LAS R-211 to CLARR INT. Thence. . .

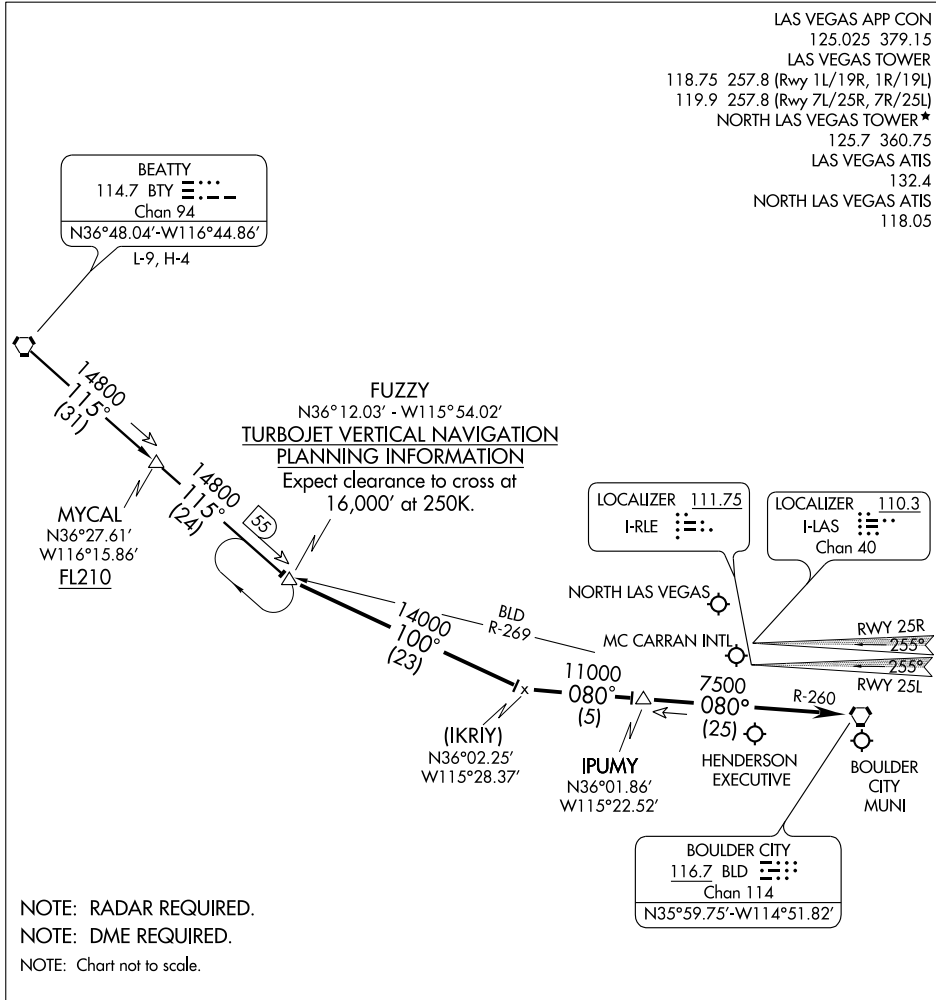
TWENTYNINE PALMS TRANSITION (TNP.CLARR2): From over TNP VORTAC via TNP R-028 to JOTNU INT, then via GFS R-185 to GFS VORTAC, then via GFS R-308 and BTY R-126 to CLARR INT. Thence. . .

....From over CLARR INT via LAS R-211 to SKEBR INT. Thence. . .

LANDING MC CARRAN INTL: Via heading 345° to intercept the BLD R-260 to BLD VORTAC. Rws 1L/R, 7L/R, and 19L/R expect radar vectors for visual approach prior to BLD VORTAC. Rws 25L/R expect ILS approach procedure.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: After SKEBR INT expect radar vectors to airport.

SW-4, 14 JAN 2010 to 11 FEB 2010



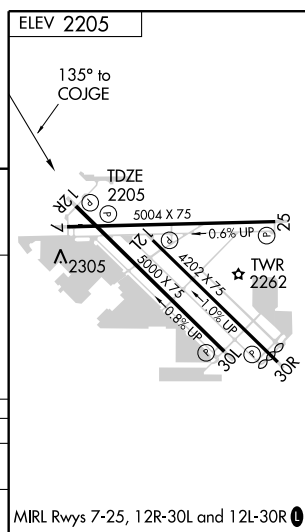
BEATTY TRANSITION (BTY.FUZZY7): From over BTY VORTAC via BTY R-115 to FUZZY INT. Thence . . .
 . . . From over FUZZY via heading 100° to intercept BLD R-260 to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 1L/R, 7L/R, and 19L/R: Expect vectors for visual approach prior to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 25L/R: Expect ILS approach.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI :
 After IPUMY, expect radar vectors to airport.

MISSED APPROACH: Climbing right turn to 4000 via heading 220° and LAS R-300 to LAS VORTAC.

UNICOM
122.95

LOC/DME I-HWG <u>110.7</u> Chan 44	APP CRS 120°	Rwy Idg 4202 TDZE 2189 Apt Elev 2205
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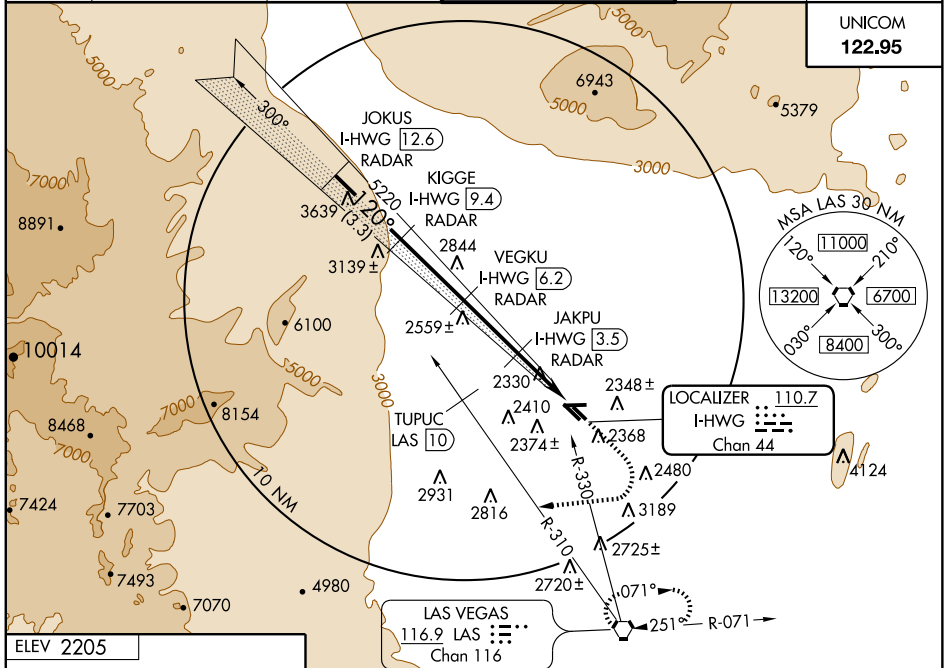
ILS or LOC RWY 12L

LAS VEGAS/NORTH LAS VEGAS (VGT)

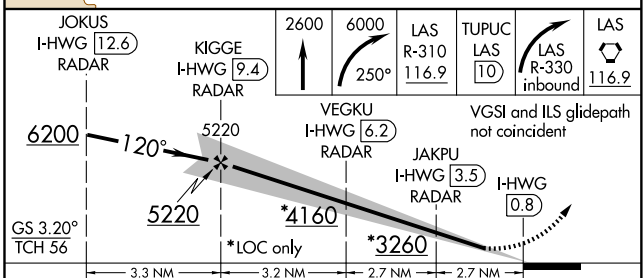
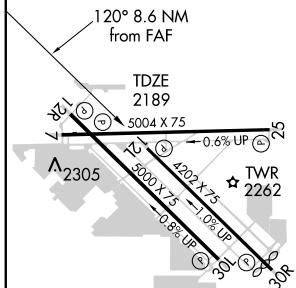
- T** When local altimeter setting not received, use McCarran Intl altimeter setting and increase DA to 2478, and visibility Cats A/B ¼ mile; increase all MDA 40 feet. DME and RADAR required.

MISSED APPROACH: Climb to 2600, then climbing right turn heading 250° to 6000, intercept LAS R-310 outbound to TUPUC/LAS 10 DME then turn right via LAS R-330 inbound to LAS VORTAC and hold.

ATIS 118.05	LAS VEGAS APP CON Rwy 30 119.4 282.2	NELLIS APP CON Rwy 12 118.125 291.725	NORTH LAS VEGAS TOWER ★ 125.7 (CTAF) 0 360.75	GND CON 121.7	CLNC DEL 124.0
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UNICOM
122.95

DME and RADAR REQUIRED

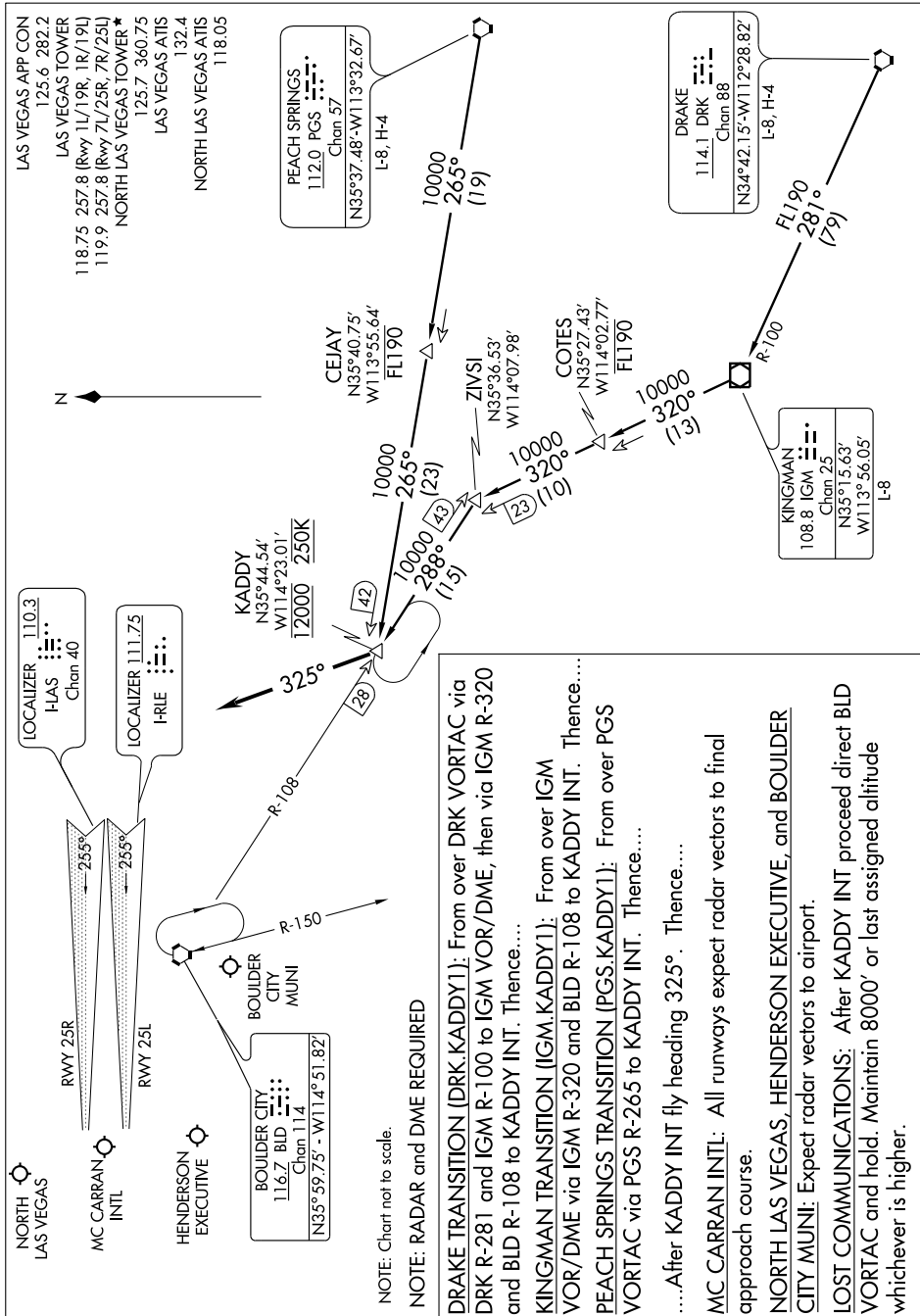


MRL Rwy's 7-25, 12R-30L and 12L-30R	FAF to MAP 8.6 NM					CATEGORY	A		B		C		D	
						S-ILS 12L	2456-1 267 (300-1)		NA					
						S-LOC 12L	2580-1 391 (400-1)		NA					
						CIRCLING	2680-1 475 (500-1)		NA					
Knots	60	90	120	150	180									
Min:Sec	8:36	5:44	4:18	3:26	2:52									

KADDY ONE ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA





ARRIVAL DESCRIPTION

BETHL TRANSITION (BETHL.LUXOR2): From over BETHL INT via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

BRYCE CANYON TRANSITION (BCE.LUXOR2): From over BCE VORTAC via BCE R-218 and LAS R-045 to LUXOR INT. Thence. . . .

DOVE CREEK TRANSITION (DVC.LUXOR2): From over DVC VORTAC via DVC R-239 and LAS R-054 to BETHL INT, then via PGA R-254 and MMM R-069 to HOLDM INT, then via LAS R-045 to LUXOR INT. Thence. . . .

MILFORD TRANSITION (MLF.LUXOR2): From over MLF VORTAC via MLF R-190 and LAS R-045 to LUXOR INT. Thence. . . .

. . . .From over LUXOR INT via BLD R-023 to BAMAA INT, thence via LAS R-066 to LAS VORTAC. Thence. . . .

LANDING MC CARRAN INTL: All runways expect radar vectors to final approach course.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: Expect radar vectors to airport.

LOST COMMUNICATIONS: After LAS VORTAC proceed direct BLD VORTAC and hold. Maintain 8000' or last assigned altitude whichever is higher.

ATIS 118.05
GND CON 121.7
UNICOM 122.95
CTAF 125.7

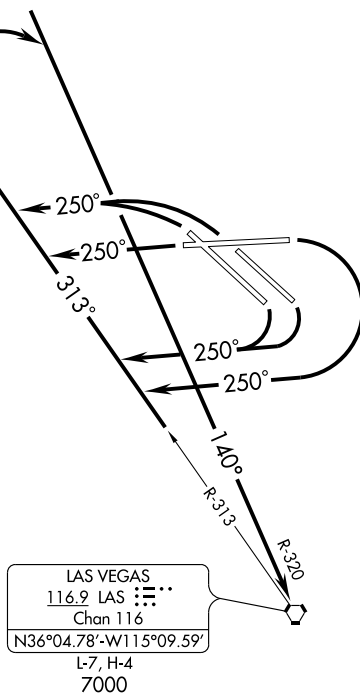
TAKE-OFF MINIMUMS

Rwy 7: Standard with minimum climb of 322' per NM to 5000.
Rwy 12L: Standard with minimum climb of 393' per NM to 5000.
Rwy 12R: Standard with minimum climb of 373' per NM to 5000.
Rwy 25: Standard with minimum climb of 341' per NM to 5000.
Rwy 30L: Standard with minimum climb of 315' per NM to 5700.
Rwy 30R: Standard with minimum climb of 302' per NM to 5700.

TAKE-OFF OBSTACLE NOTES

- Rwy 7: Tower 1.1 NM from DER, 1044' right of centerline, 252' AGL/2348' MSL.
- Rwy 12R: Multiple towers 1.0 NM from DER, 850' right of centerline, up to 267' AGL/2368' MSL.
Tower 1.2 NM from DER, 1355' right of centerline, 270' AGL/2367' MSL. Power lines 1122' from DER, 764' right of centerline, traversing to the southeast out to 2345' from DER, 510' right of centerline, 106' AGL/2344' MSL.
- Rwy 12L: Light pole 254' from DER, 462' right of centerline, 36' AGL/2159' MSL. Trucks on road 255' from DER, 502' right of centerline, 15' AGL/2155' MSL. Powerlines 1289' from DER, 663' right of centerline traversing to the northeast out to 1576' from DER, 716' left of centerline, up to 129' AGL/2226' MSL. Multiple towers 5045' from DER, 1551' right of centerline, 267' AGL/2368' MSL.
- Rwy 25: Light pole 1447' from DER, 21' right of centerline, 35' AGL/2255' MSL.
- Rwy 30L: Multiple towers/antennas 2745' from DER, 1035' left of centerline, up to 84' AGL/2327' MSL. Tree 2895' from DER, 511' left of centerline, 59' AGL/2294' MSL. Tree 3028' from DER, 78' right of centerline, 57' AGL/2296' MSL. Sign 1836' from DER, 379' left of centerline, 48' AGL/2266' MSL. Building 2070' from DER, 249' left of centerline, 49' AGL/2271' MSL. Light pole 1692' from DER, 236' left of centerline, 37' AGL/2252' MSL. Sign 1800' from DER, 561' left of centerline, 36' AGL/2254' MSL. Tree 1785' from DER, 525' right of centerline, 42' AGL/2250' MSL.
- Rwy 30R: Antenna tower 4639' from DER, 1736' left of centerline, 84' AGL/2327' MSL. Anemometer 552' from DER, 570' left of centerline, 34' AGL/2216' MSL. Vent on building 1632' from DER, 566' right of centerline, 58' AGL/2240' MSL. Antenna on hangar 2012' from DER, 195' right of centerline, 61' AGL/2247' MSL.

RUZCO
N36°15.39'
W115°17.78'
5000



NOTE: Do not exceed 240 KIAS until established on LAS R-320 inbound.

NOTE: DME required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 and 12 L/R: Climbing right turn via heading 250° and LAS R-313 outbound. Thence....

TAKE-OFF RUNWAY 25: Climb via heading 250° and LAS R-313 outbound. Thence....

TAKE-OFF RUNWAYS 30L/R: Climbing left turn via heading 250° and LAS R-313 outbound. Thence....

....via LAS R-313 maintain 5000 to RUZCO, then climbing right turn to intercept LAS R-320 to LAS VORTAC. Cross LAS VORTAC at or above 7000'.

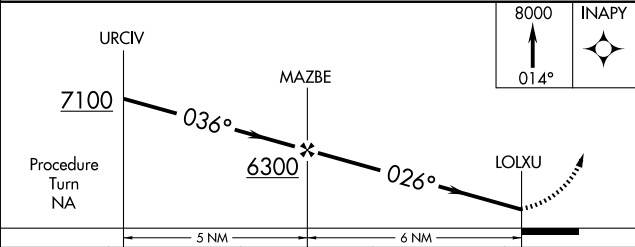
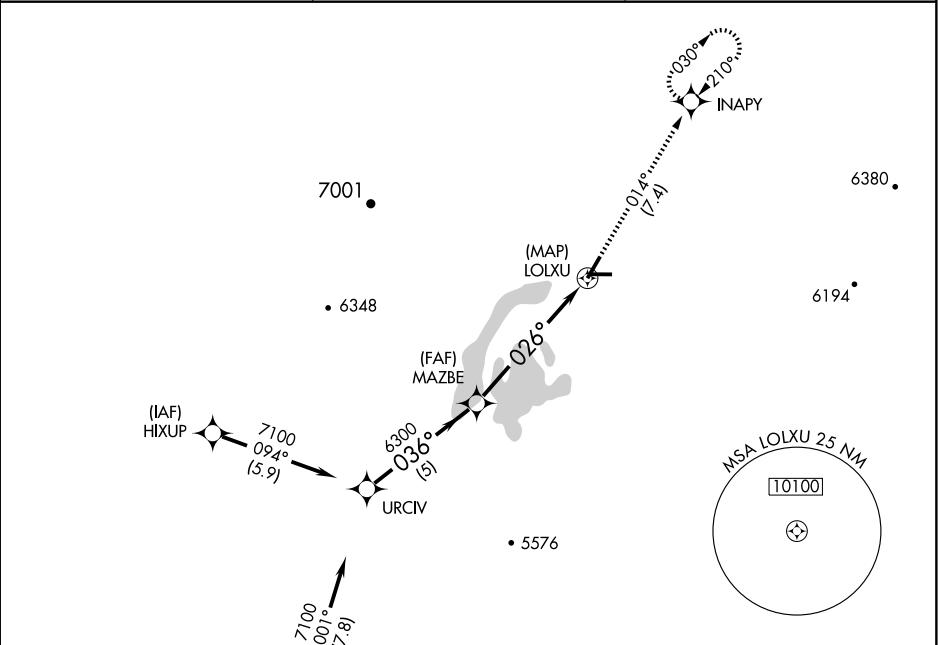
APP CRS	Rwy Idg	5529
026°	TDZE	3902
	Apt Elev	3904

GPS RWY 1

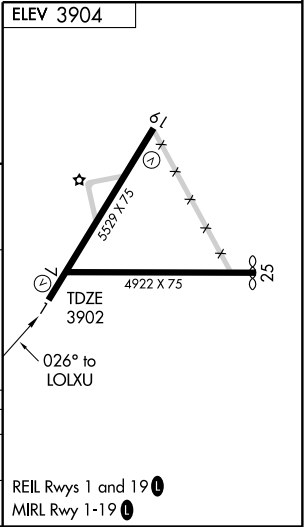
LOVELOCK/ DERBY FIELD (LOL)

▼ ▲ NA	MISSED APPROACH: Climb to 8000 via 014° course to INAPY WP and hold.
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ASOS 120.675	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-1	4280-1 378 (400-1)			4280-1¼ 378 (400-1¼)
CIRCLING	4320-1 416 (500-1)	4360-1 456 (500-1)	4360-1½ 456 (500-1½)	4780-2¾ 876 (900-2¾)



VORTAC LLC 116.5 Chan 112	APP CRS 153°	Rwy Idg TDZE Apt Elev N/A N/A 3904
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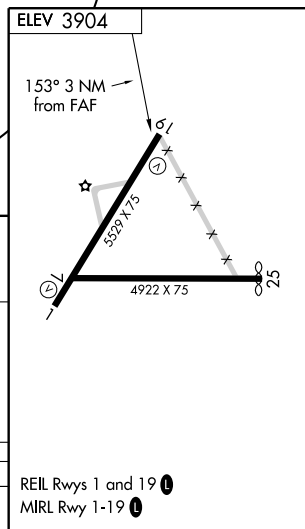
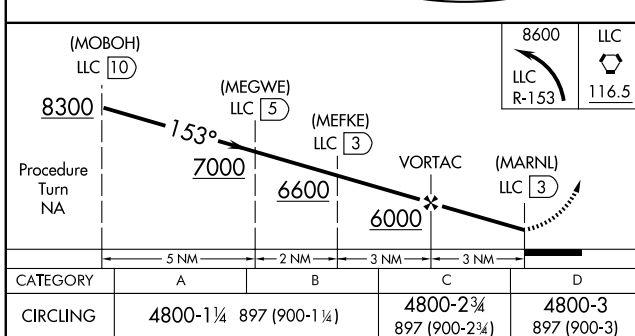
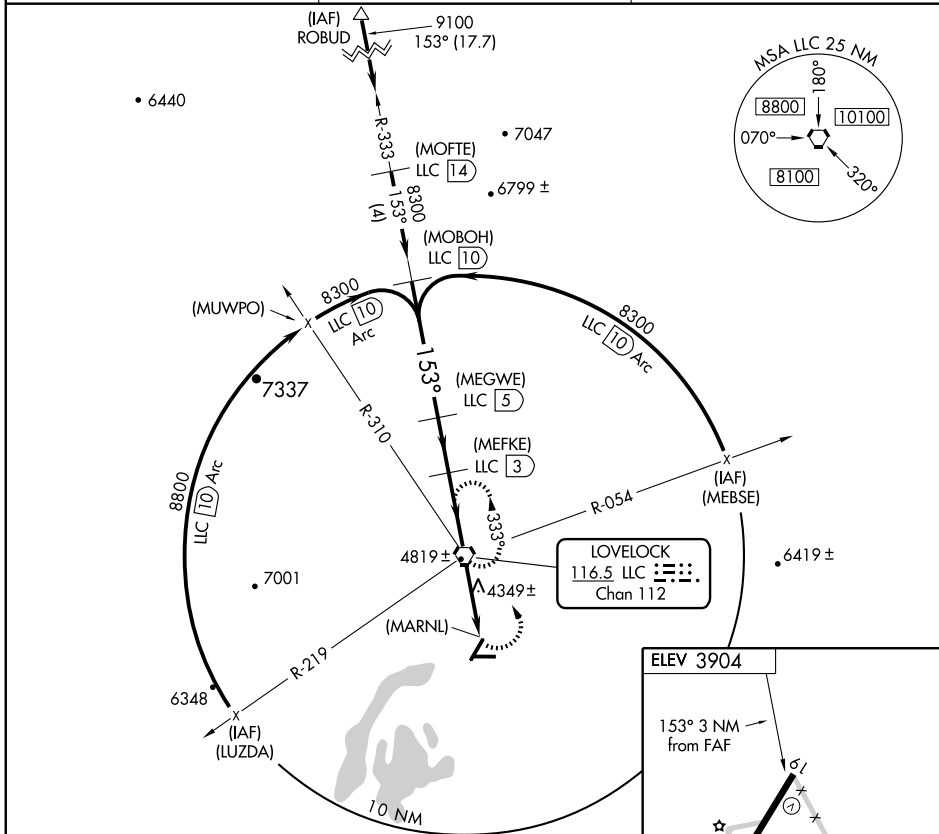
VOR/DME or GPS-A

LOVELOCK/ DERBY FIELD (LOL)



MISSED APPROACH: Climbing left turn to 8600 via R-153 to LLC VORTAC and hold, continue climb in hold to 8600.

ASOS 120.675	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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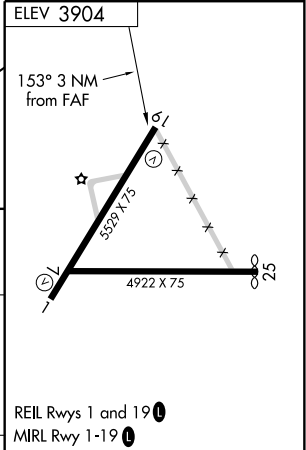
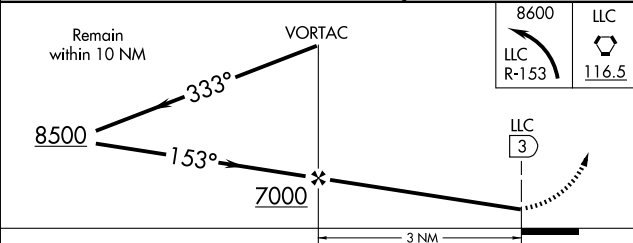
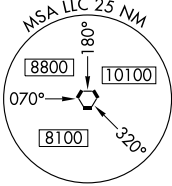
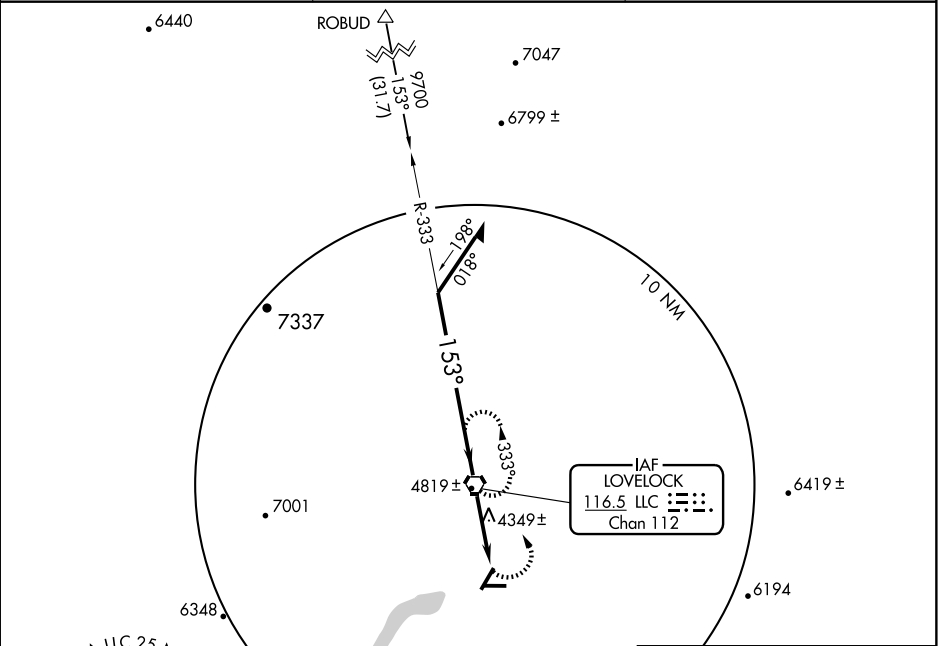
VORTAC LLC 116.5 Chan 112	APP CRS 153°	Rwy Idg TDZE Apt Elev N/A N/A 3904
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VOR or GPS-C
LOVELOCK/DERBY FIELD (LOL)



MISSED APPROACH: Climbing left turn to 8600 via R-153 to LLC VORTAC and hold, continue climb-in-hold to 8600.

ASOS 120.675	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 3 NM					
CIRCLING	5800-1¼	5800-1½	5800-3	1897 (1900-3)	Knots	60	90	120	150	180
	1897 (1900-1¼)	1897 (1900-1½)			Min:Sec	3:00	2:00	1:30	1:12	1:00

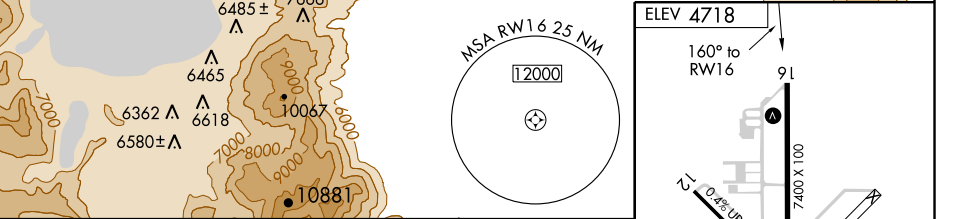
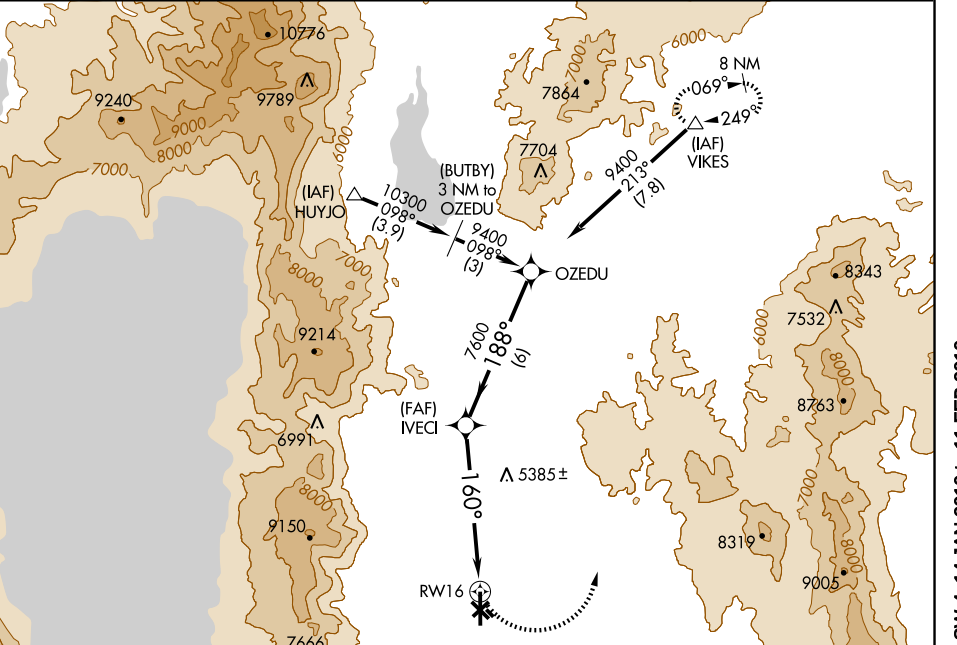
SW-4, 14 JAN 2010 to 11 FEB 2010

▼

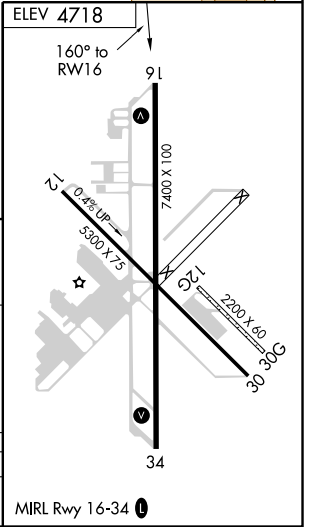
▲ NA

MISSED APPROACH: Climbing left turn to 12000 direct VIKES WP and hold.

AWOS-3 119.325	RENO APP CON 119.2 279.55	UNICOM 123.05 (CTAF) 1
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OZEDU VGS and descent angles not coincident.			
12000 VIKES ▲			
Procedure Turn NA			
9400 188° 7600 160° 4.49° TCH 31 RW16			
6 NM 6 NM			
CATEGORY	A	B	C D
CIRCLING	6220-1¼ 1502 (1600-1¼)	6220-1½ 1502 (1600-1½)	6220-3 1502 (1600-3)

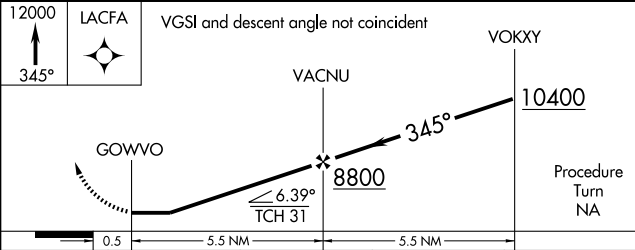
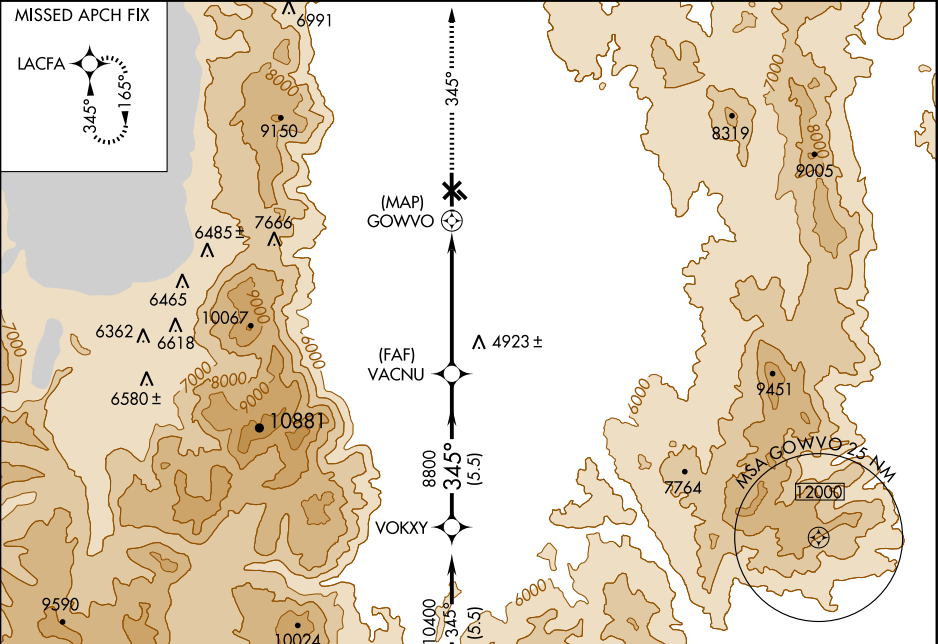


APP CRS 345°	Rwy Idg TDZE Apt Elev	N/A N/A 4718
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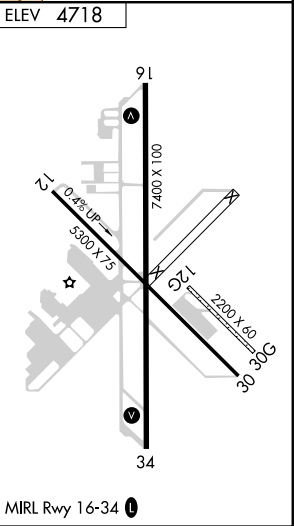

NA

MISSED APPROACH: Climb to 12000 via 345° course to LACFA WP and hold.

AWOS-3 119.325	RENO APP CON 119.2 279.55	UNICOM 123.05 (CTAF) 0
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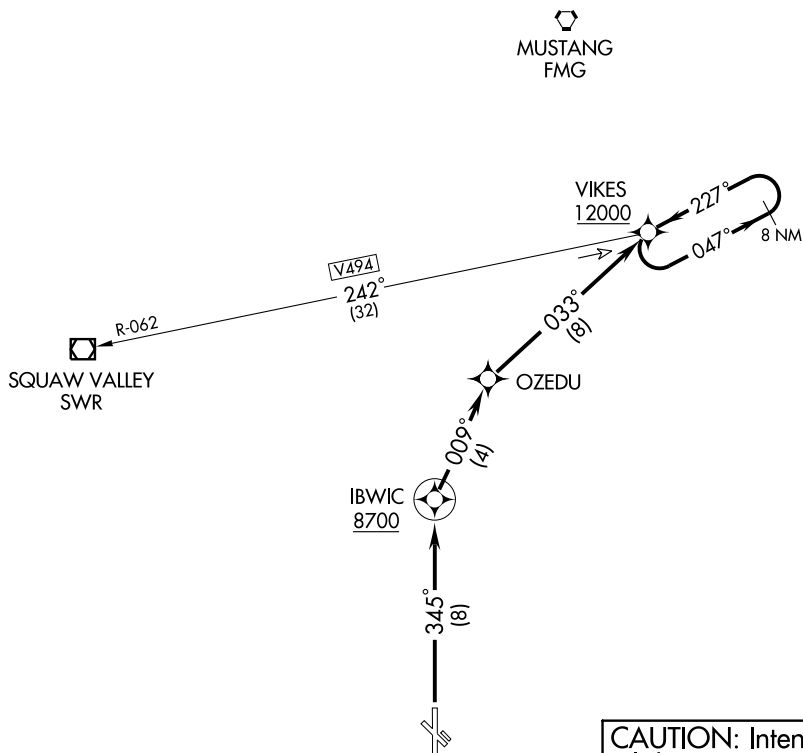
CATEGORY	A	B	C	D
CIRCLING	6600-1¼ 1882 (1900-1¼)	6600-1½ 1882 (1900-1½)	6600-3	1882 (1900-3)



(MINDN1.VIKES) 07242 SL-9430 (FAA)
MINDEN ONE DEPARTURE (RNAV) (OBSTACLE)

MINDEN-TAHOE (MEV)
MINDEN, NEVADA

RENO TOWER
118.7 257.8
RENO DEP CON (SOUTH)
119.2 279.55



NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb via 345° course to IBWIC WP, 009° course to OZEDU WP, and 033° course to VIKES WP, then climb in VIKES WP holding pattern (hold NE, left turns, 227° inbound) to cross VIKES WP at or above 12000 before proceeding on course.

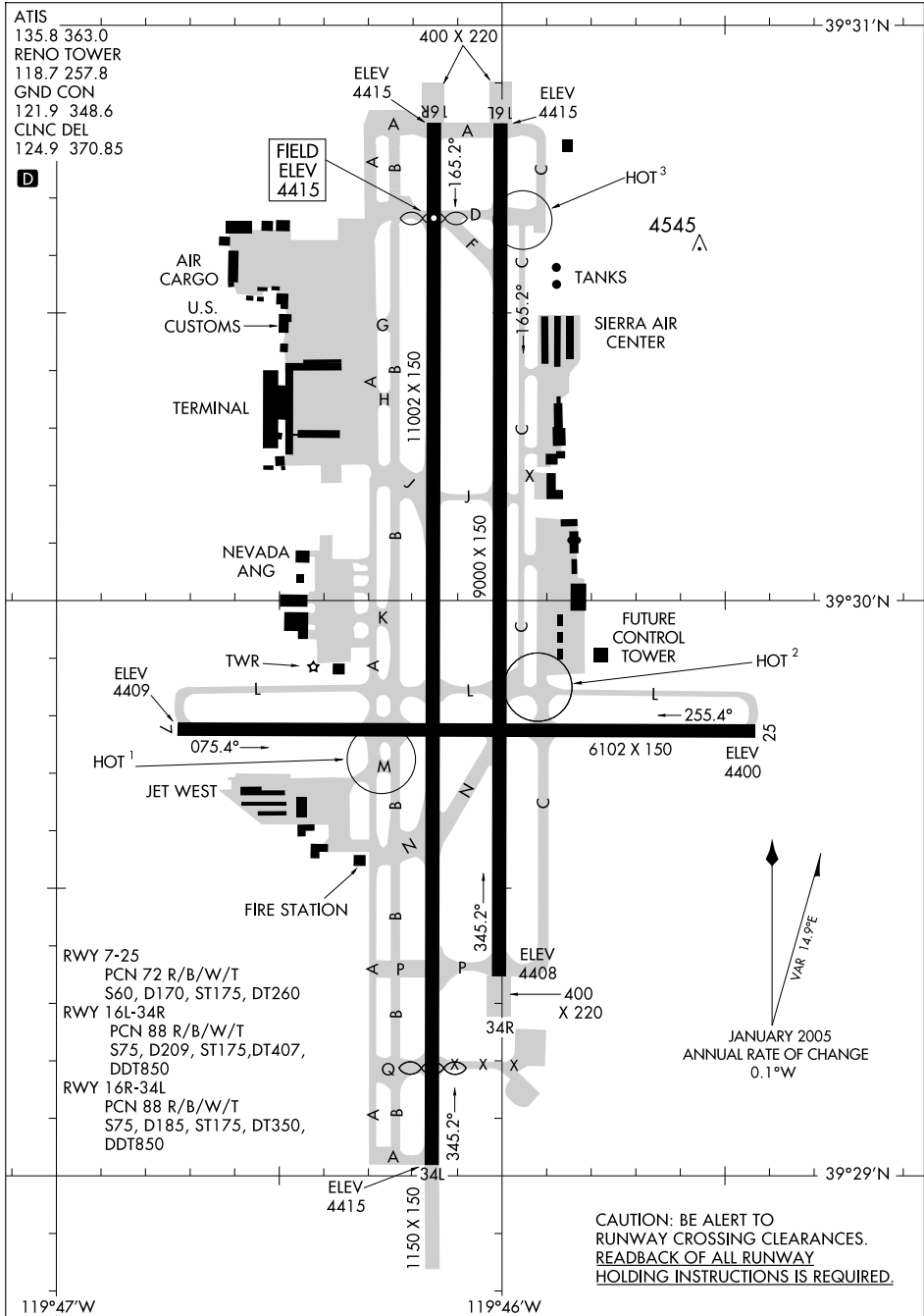
AIRPORT DIAGRAM

AL-346 (FAA)

 RENO/TAHOE INTL (RNO)
 RENO, NEVADA

 ATIS
 135.8 363.0
 RENO TOWER
 118.7 257.8
 GND CON
 121.9 348.6
 CLNC DEL
 124.9 370.85

D



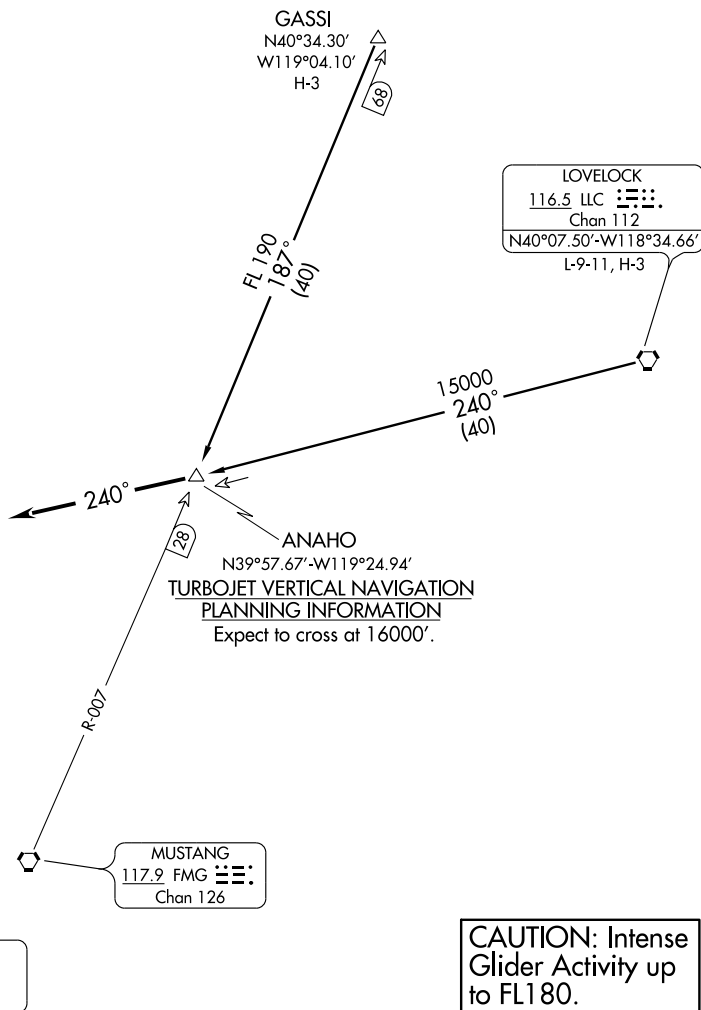
SW-4, 14 JAN 2010 to 11 FEB 2010

ANAHO TWO ARRIVAL

ST-346 (FAA)

RENO/TAHOE INTL
RENO, NEVADA

RENO APP CON
RWY 16L/R 126.3 353.9
RWY 34L/R 119.2 279.55
ATIS 135.8 363.0



NOTE: RADAR required.

NOTE: Chart not to scale.

GASSI TRANSITION (GASSI:ANAHO2): From over GASSI via FMG R-007 to ANAHO INT/DME. Thence....

LOVELOCK TRANSITION (LLC:ANAHO2): From over LLC VORTAC via LLC R-240 to ANAHO INT/DME. Thence....

....Depart ANAHO INT/DME heading 240° for vectors to final approach course.

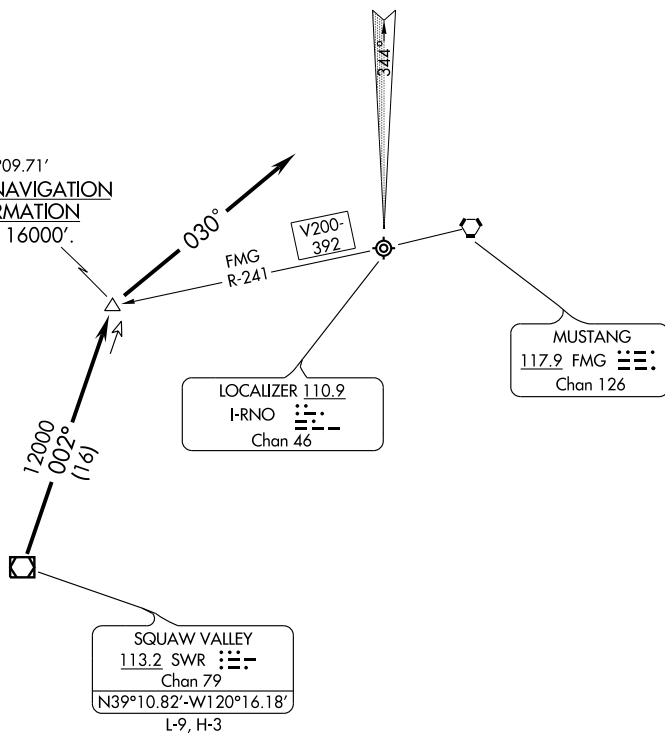
CANNON TWO ARRIVAL

ST-346 (FAA)

RENO/TAHOE INTL
RENO, NEVADA

RENO APP CON
RWY 16L/R 126.3 353.9
RWY 34L/R 119.2 279.55
ATIS 135.8 363.0

TRUCK
N39°26.26'-W120°09.71'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect to cross at 16000'.



CAUTION: Intense
Glider Activity up
to FL180.

NOTE: RADAR Required.

NOTE: Chart not to scale.

From over SWR VOR/DME via SWR R-002 to TRUCK INT/DME. Depart TRUCK
INT/DME heading 030° for vectors to final approach.

RENO, NEVADA

HI-ILS/DME RWY 16R

LOC I-RNO 110.9 Chan 46	APCH CRS 164°	Rwy Idg 10,000 TDZE Arpt Elev 4412
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JAL-346 [USAF]

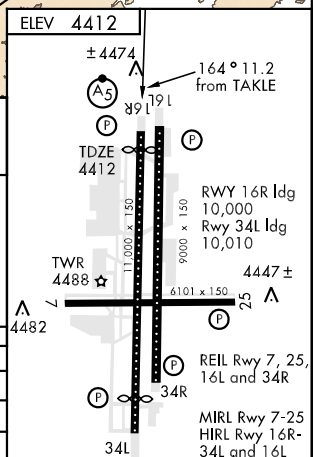
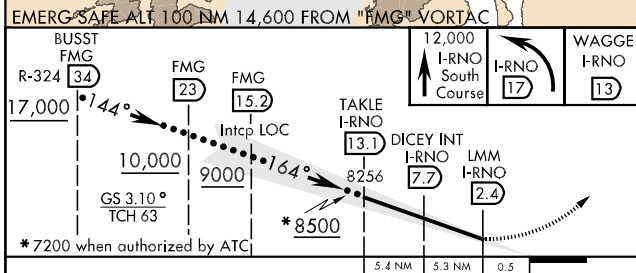
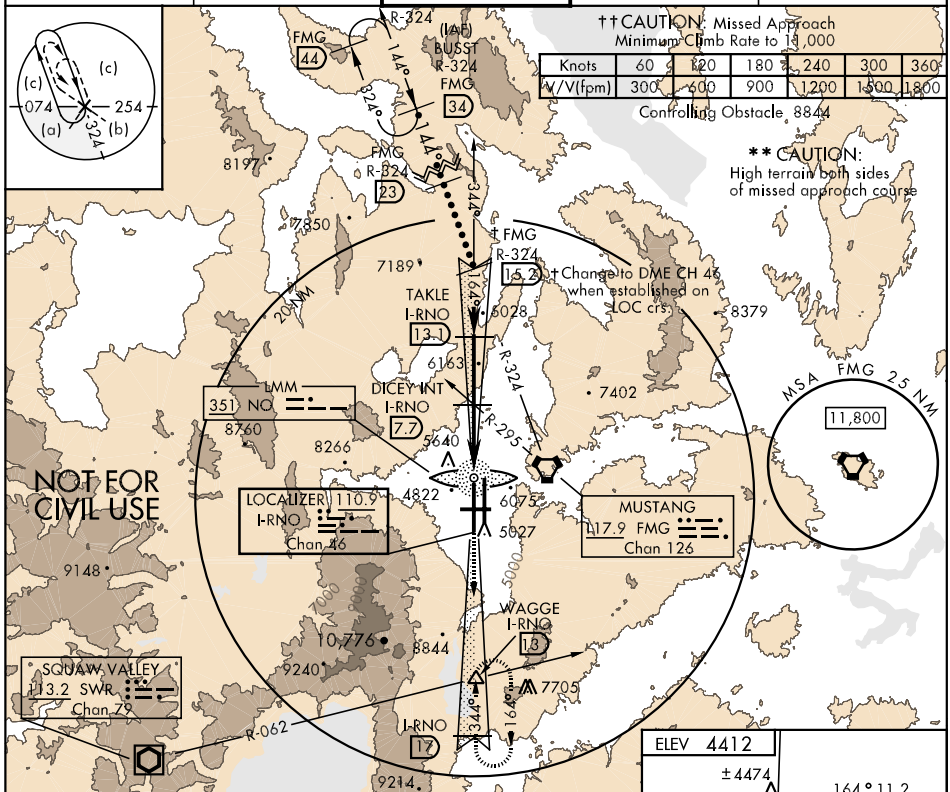
RENO/TAHOE INTL (KRNO)

▼ Use I-RNO DME when on LOC course.



†† *** MISSED APPROACH: Climb to 12,000 via I-RNO south course to 17 DME then turn left to WAGGE 13 DME and hold.

ATIS 135.8 277.2	RENO APP CON 119.2 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 343.9
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CATEGORY	C	D	E
S-ILS 16R	5012-2	600	(600-2)
S-LOC 16R	NOT AUTHORIZED		
CIRCLING	NOT AUTHORIZED		

RENO, NEVADA

39°30'N-119°46'W

RENO/TAHOE INTL (KRNO)

Amdt 2 09155

HI-ILS/DME RWY 16R

SW-4, 14 JAN 2010 to 11 FEB 2010

RENO, NEVADA

HI-HI-TACAN-AC

VORTAC FMG 117.9 Chan 126	APCH CRS 239°	Rwy Idg TDZE Arpt Elev N/A N/A 4412
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JAL-346 [USN]

RENO/TAHOE INTL (KRNO)

✚ ** Category E circling not authorized to Rwy 7-25.
Approaches RADAR monitored by Reno APP CON. Arrivals from East and aircraft on missed approach may be vectored to final.

* MISSED APPROACH: Make climbing right turn to 10,000 heading 060° to R-020, then arc NE on 12 mile arc to join R-059 inbound.

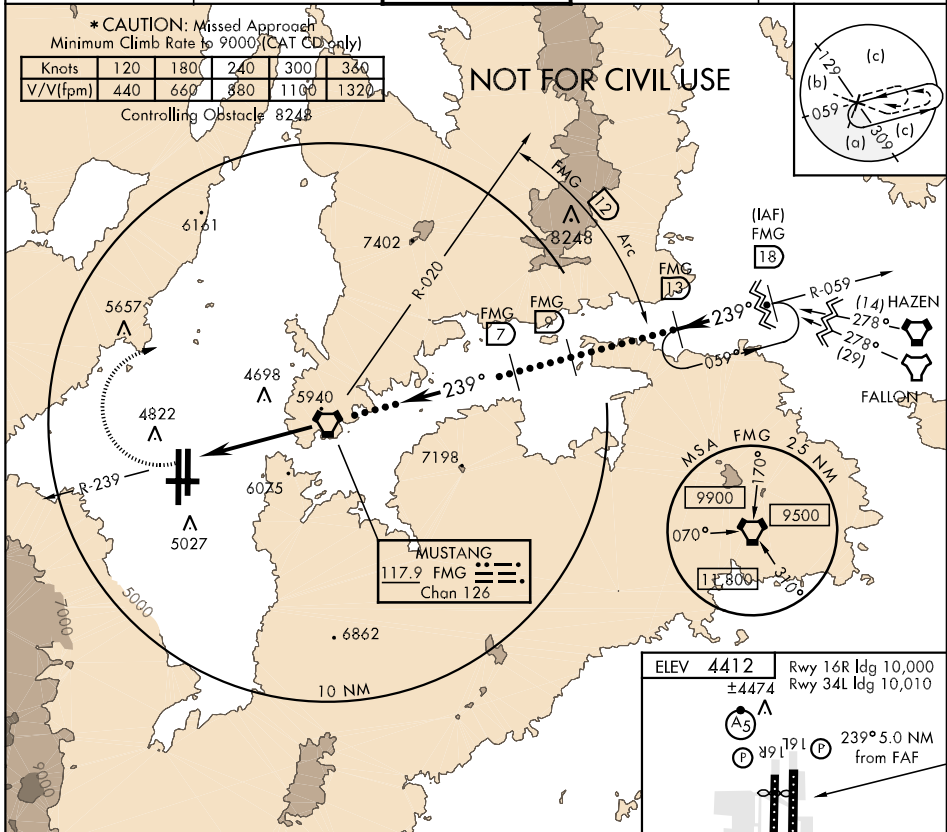
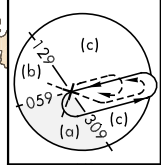
ATIS 135.8 277.2	RENO APP CON 119.2 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 343.9
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* CAUTION: Missed Approach
Minimum Climb Rate to 9000 (CAT CD only)

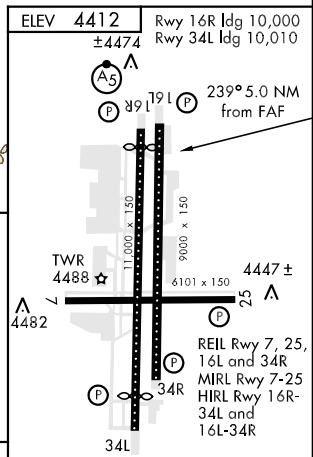
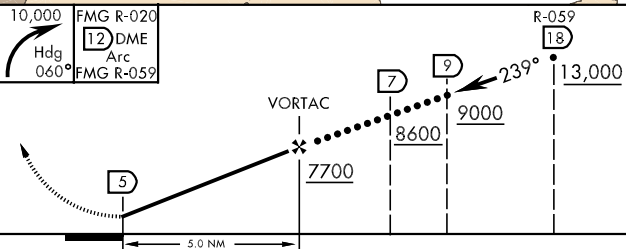
Knots	120	180	240	300	360
V/V(fpm)	440	660	880	1100	1320

Controlling Obstacle 8248

NOT FOR CIVIL USE



EMERG SAFE ALT 100 NM 14,600 FROM "FMG" VORTAC



CATEGORY	C	D	E
CIRCLING**	5960-3 1548	(1600-3)	6380-3 1968 (2000-3)

FAF to MAP 5.0 NM					
Knots	120	140	160	180	200
Min:Sec	2:30	2:09	1:53	1:40	1:30

RENO, NEVADA

39°30'N-119°46'W

RENO/TAHOE INTL (KRNO)

SW-4, 14 JAN 2010 to 11 FEB 2010

09155

HI-HI-TACAN-AC

HUNGRY TWO DEPARTURE

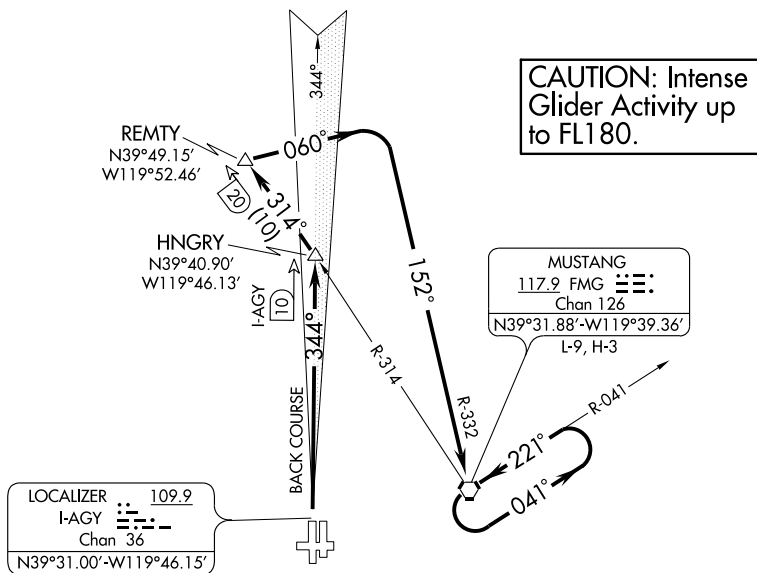
SL-346 (FAA)

RENO/TAHOE INTL (R.NO)
RENO, NEVADA

ATIS 135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
RENO DEP CON
126.3 353.9

TAKE-OFF OBSTACLE NOTES

- Rwy 34L: Multiple trees and pole beginning 1229' from DER, 180' right of centerline, up to 20' AGL/4498' MSL.
Multiple trees beginning 1193' from DER, 331' left of centerline, up to 20' AGL/4489' MSL.
- Rwy 34R: Multiple trees and pole beginning 1067' from DER, 172' right of centerline, up to 20' AGL/4497' MSL.
Multiple trees and pole beginning 1230' from DER, 350' left of centerline, up to 20' AGL/4498' MSL.
Building 1.2 NM from DER, 1730' right of centerline, 363' AGL/4780' MSL.

TAKE-OFF MINIMUMS

Rwy 7: NA- obstacles

Rwys 16L, 16R, 25: NA-ATC.

Rwy 34L: Standard with minimum climb of 315' per NM to 8400.

Rwy 34R: Standard with minimum climb of 480' per NM to 8400 or, 500-1½ with minimum climb of 315' per NM to 8400.

NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L/R: Climb to 10000 or assigned altitude via I-AGY localizer north course to HNGRY INT/I-AGY 10 DME, and intercept FMG R-314 to RENTY/FMG 20 DME, and right turn heading 060° to intercept FMG R-332 to FMG VORTAC. Climb in FMG holding pattern to depart FMG VORTAC at or above MEA/MCA for route of flight. Expect clearance to requested altitude five minutes after departure.

LOC/DME I-AGY	APP CRS	Rwy Idg	10012
109.9	344°	TDZE	4410
Chan 36		Apt Elev	4415

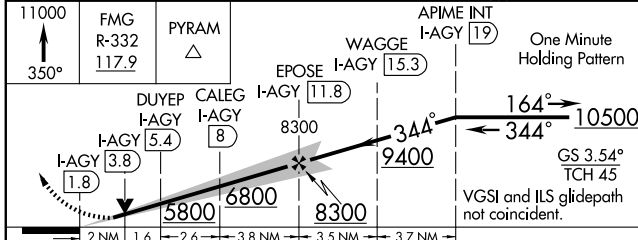
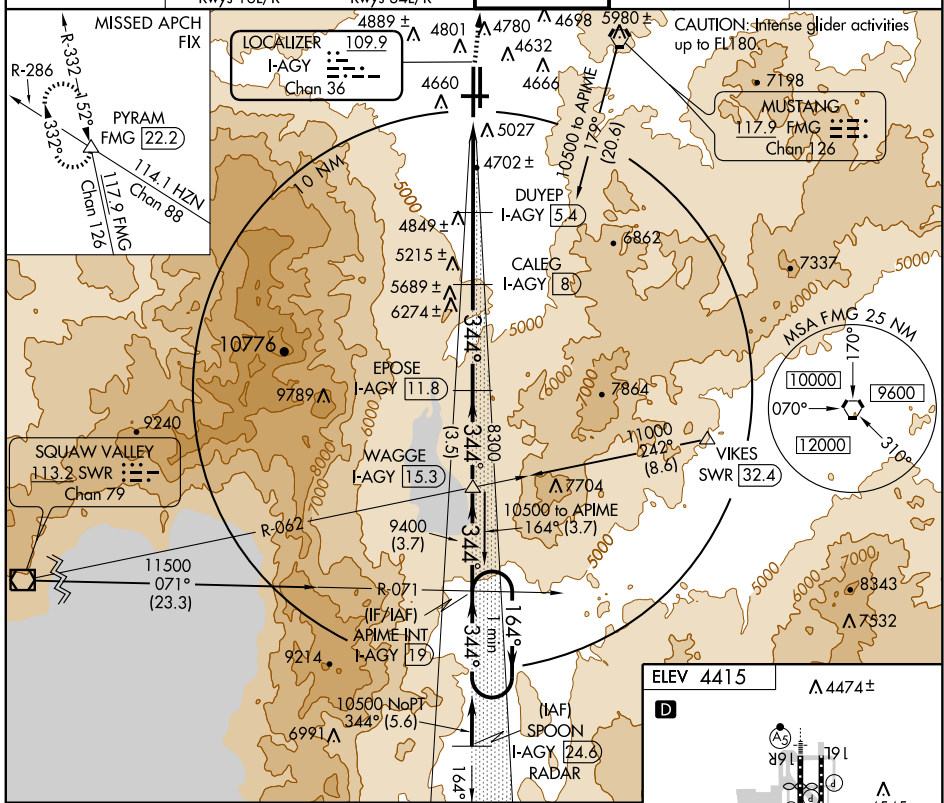
ILS or LOC/DME RWY 34L

RENO/TAHOE INTL (RNO)

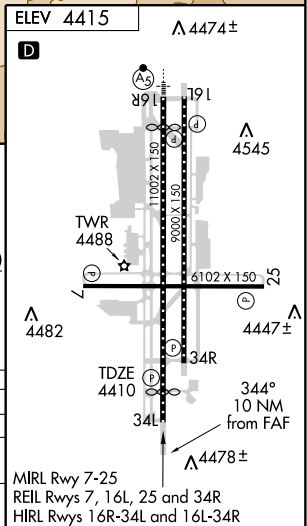
▽ Inoperative table does not apply.
▲ If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 11000 via heading 350° and FMG VORTAC R-332 to PYRAM INT/FMG 22.2 DME and hold, continue climb-in-hold to 11000.

ATIS	RENO APP CON	RENO TOWER	GND CON	CLNC DEL
135.8 363.0	126.3 353.9 119.2 279.55 Rwys 16L/R Rwys 34L/R	118.7 257.8	121.9 348.6	124.9 370.85



CATEGORY	A	B	C	D
S-ILS 34L	4946-1½	536 (600-1½)		NA
S-LOC 34L	5120-1 710 (800-1)	5120-2 710 (800-2)		NA
CIRCLING	5340-1¼ 925 (1000-1¼)	5340-2¾ 925 (1000-2¾)		NA



RENO, NEVADA

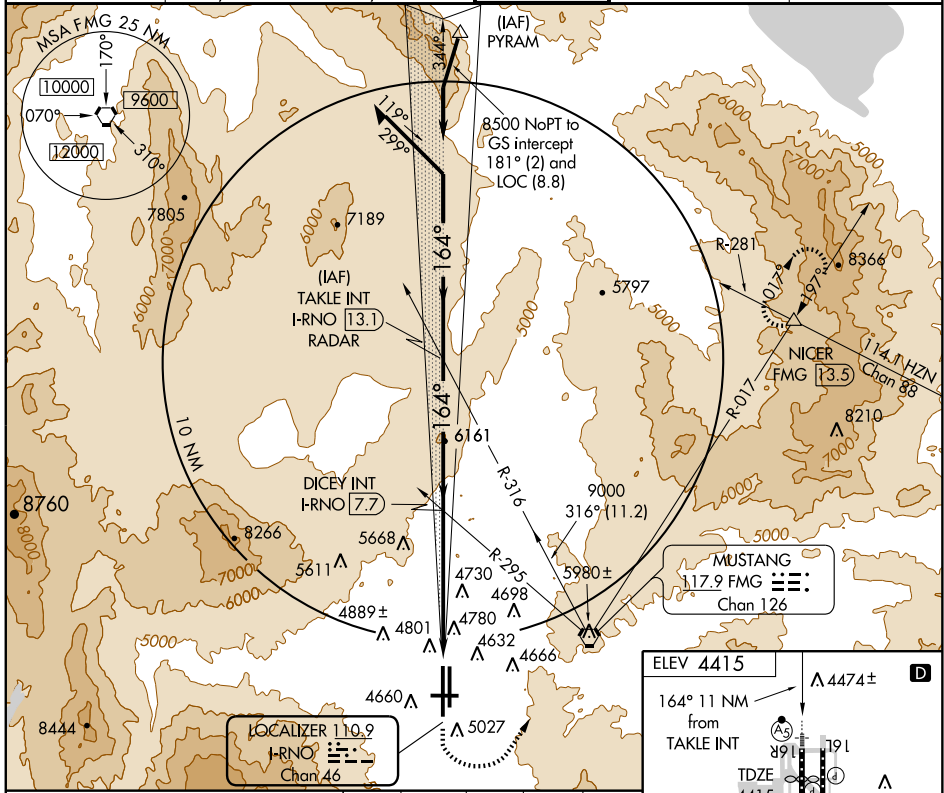
AL-346 (FAA)

LOC/DME I-RNO	APP CRS	Rwy Idg	10003
110.9	164°	TDZE	4415
Chan 46		Apt Elev	4415

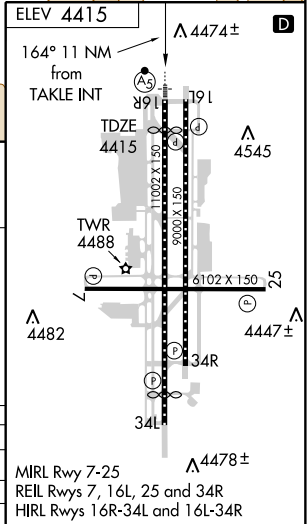
ILS RWY 16R RENO/TAHOE INTL (RNO)

▼ Inoperative table does not apply. ▲ When GS not used, use LOC Rwy 16R procedure.	MALSR AS	MISSED APPROACH: Climb to 6700, then climbing left turn to 11000 direct FMG VORTAC, then via FMG R-017 to NICER INT/FMG 13.5 DME and hold.
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ATIS 135.8 363.0	RENO APP CON 126.3 353.9 119.2 279.55 Rwys 16L/R Rwys 34L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
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Remain within 10 NM 9000 344° 164° GS 3.10° TCH 63 8500* * 7400 when authorized by ATC.	TAKELE INT I-RNO (13.1) RADAR 6700 11000 FMG 117.9 FMG R-017 NICER DICEY INT I-RNO (7.7) 6401 8256 5.4 NM 5.6 NM	CATEGORY A B C D	6446-7 2031 (2100-7) NA NA
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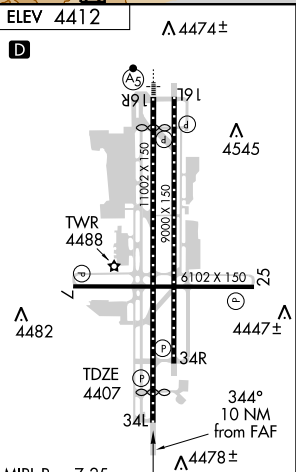
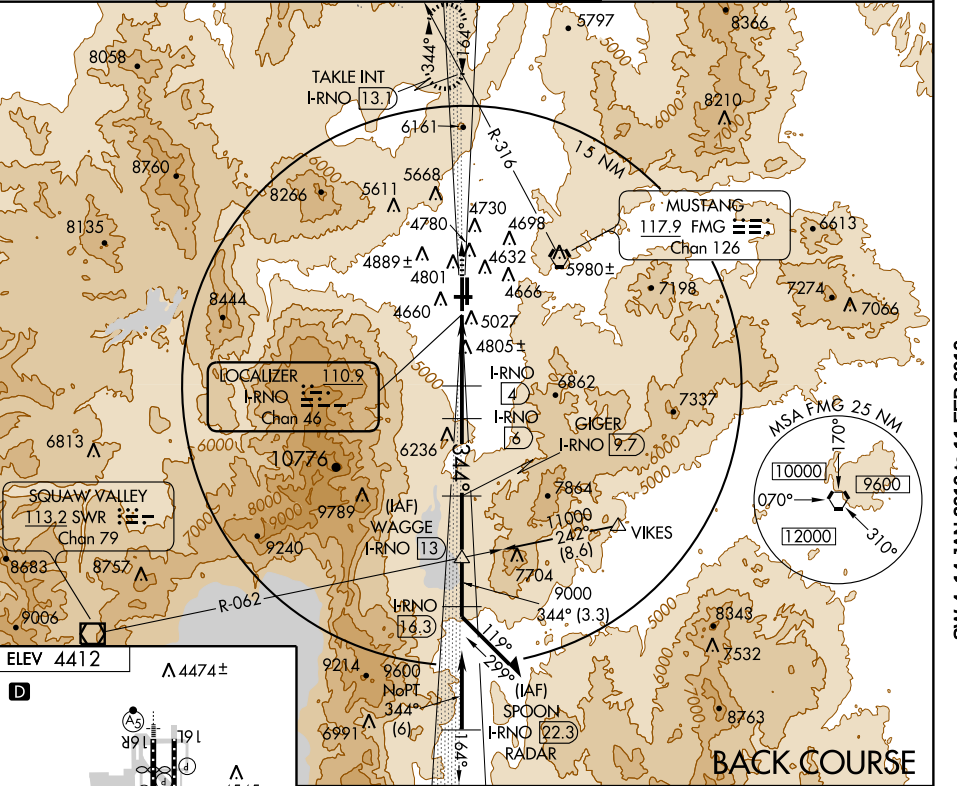


SW-4. 14 JAN 2010 to 11 FEB 2010

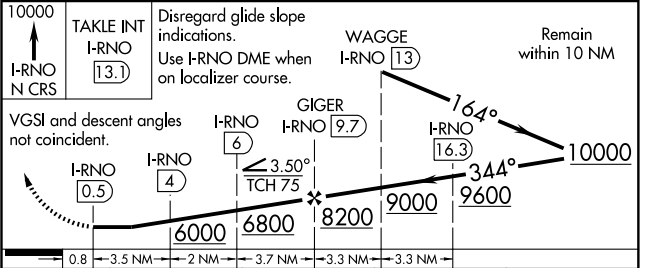
▼
▲

MISSED APPROACH: Climb to 10000 via I-RNO north course to TAKLE/I-RNO 13.1 DME and hold, continue climb-in-hold to 10000.

ATIS	RENO APP CON				RENO TOWER	GND CON	CLNC DEL
135.8 363.0	126.3	353.9	119.2	279.55	118.7 257.8	121.9 348.6	124.9 370.85
	Rwys 16L/R		Rwys 34L/R				



MIRL Rwy 7-25
REIL Rwys 7, 16L, 25 and 34R
HIRL Rwys 16R-34L and 16L-34R



CATEGORY	A	B	C	D
S-34L	5060-1	653 (700-1)	5060-1¾ 653 (700-1¾)	5060-2 653 (700-2)
CIRCLING	5340-1¾	928 (1000-1¾)	5340-2¾ 928 (1000-2¾)	5340-3 928 (1000-3)

SW-4, 14 JAN 2010 to 11 FEB 2010

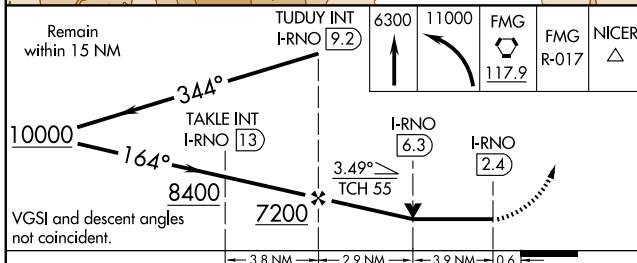
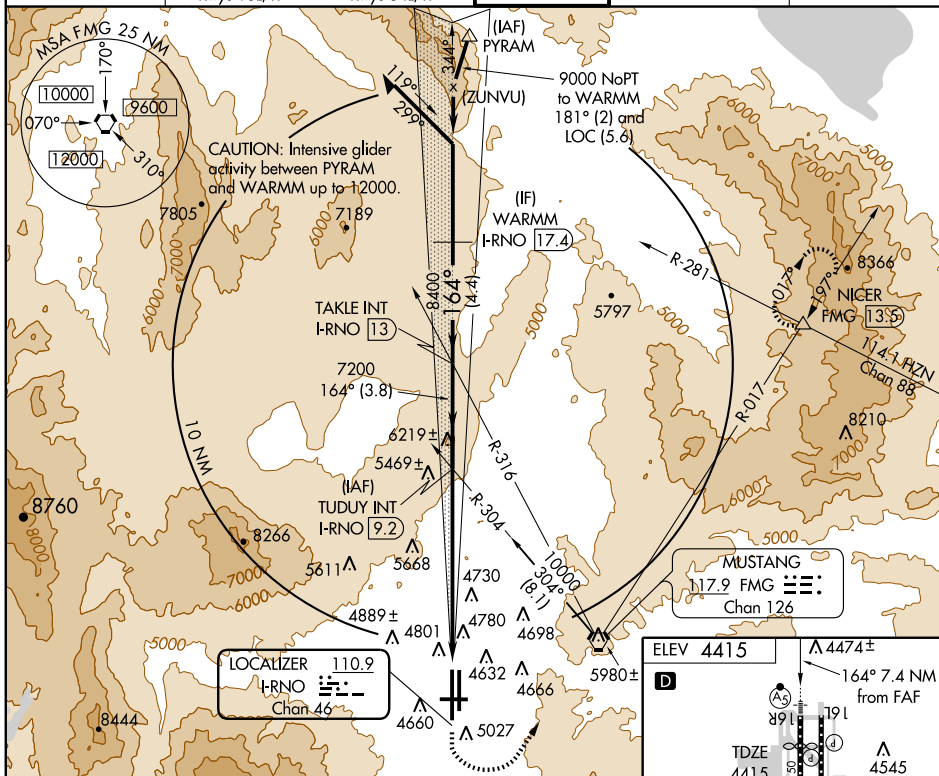
LOC/DME I-RNO 110.9 Chan 46	APP CRS 164°	Rwy Idg 10003 TDZE 4415 Apt Elev 4415
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LOC RWY 16R

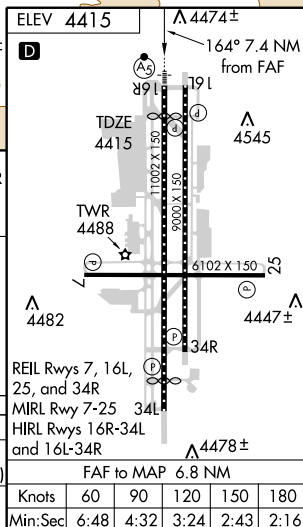
RENO/TAHOE INTL (R.NO)

▼ Inoperative table does not apply to S-16R Cts A and B. ▲ For inoperative MALSR; increase S-16R Cat E visibility to 3 miles. VDP does not apply to Cat E aircraft.	MALSR	MISSED APPROACH: Climb to 6300, then climbing left turn to 11000 direct FMG VORTAC and via FMG VORTAC R-017 to NICER INT/FMG 13.5 DME and hold, continue climb-in-hold to 11000.
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ATIS 135.8 363.0	RENO APP CON 126.3 353.9 119.2 279.55 Rwys 16L/R Rwys 34L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
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CATEGORY	A	B	C	D	E
S-16R	5980-60 1565 (1600-1¼)	5980-1½ 1565 (1600-1½)	5980-2½ 1565 (1600-2½)	6100-2½ 1685 (1700-2½)	
CIRCLING	5980-1¼ 1565 (1600-1¼)	5980-1½ 1565 (1600-1½)	5980-3 1565 (1600-3)	6780-3 2365 (2400-3)	



MUSTANG SEVEN DEPARTURE

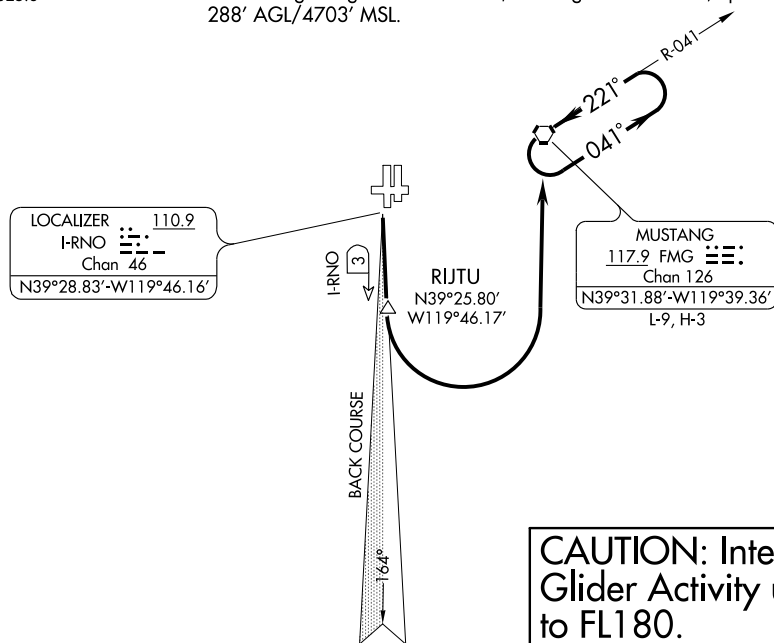
SL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

ATIS 135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
RENO DEP CON
119.2 325.8

TAKE-OFF OBSTACLE NOTES

- Rwy 16L: Multiple antennas, trees, and light poles beginning 618' from DER, 131' left of centerline, up to 40' AGL/4449' MSL.
Terrain beginning 5189' from DER, 821' left of centerline, up to 5027' MSL.
- Rwy 16R: Multiple antennas, trees, and light poles beginning 746' from DER, 380' left of centerline, up to 95' AGL/4510' MSL.
Terrain beginning 2784' from DER, 990' right of centerline, up to 288' AGL/4703' MSL.



TAKE-OFF MINIMUMS

Rwy 7: NA- obstacles

Rwys 25, 34L/34R: NA- ATC.

Rwy 16L: Standard with minimum climb of 740' per NM to 8000 or, 600-1¼ with minimum climb of 525' per NM to 8000.

Rwy 16R: Standard with minimum climb of 740' per NM to 8000 or, 600-1¼ with minimum climb of 525' per NM to 8000.

NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Climb to 10000 or assigned altitude, via I-RNO south course to RIJUT/3 DME, then left turn direct FMG VORTAC. Climb in FMG holding pattern to depart FMG VORTAC at or above MEA/MCA for direction of flight. Expect clearance to requested altitude five minutes after departure.

RENO FOUR DEPARTURE

SL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

TAKE-OFF MINIMUMS

ATIS 135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8

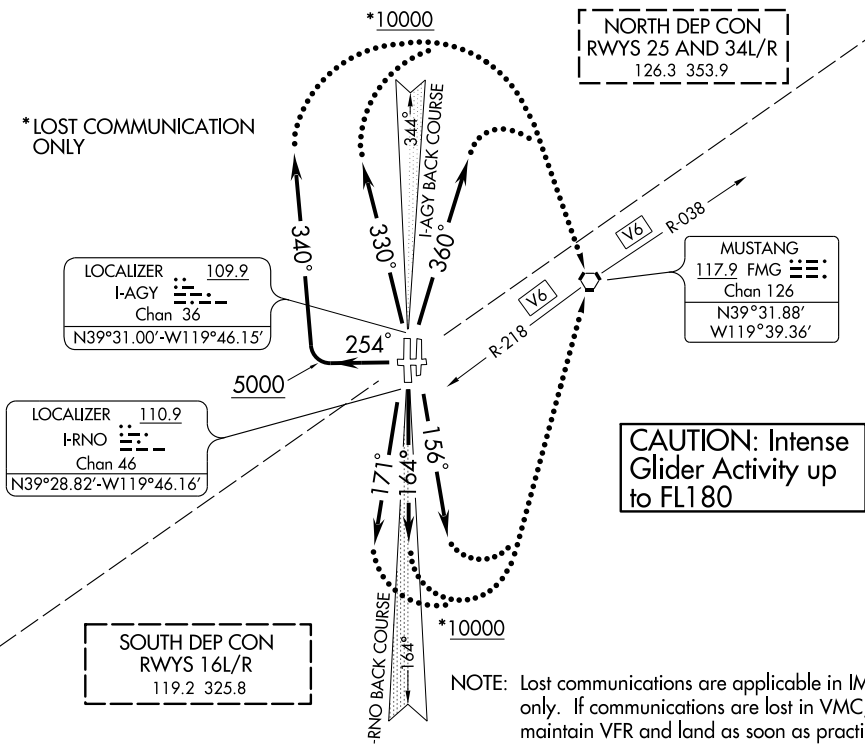
Rwy 7: NA- Obstacles.

Rwy 16L: Standard with minimum climb of 730' per NM to 9900, or 600-1½ with minimum climb of 370' per NM to 9900.

Rwy 16R: Standard with minimum climb of 460' per NM to 10800, or 300-1 with minimum climb of 395' per NM to 10800.

Rwy 25: Standard with minimum climb of 490' per NM to 8600.

Rwys 34L/R: Standard with minimum climb of 480' per NM to 7000, or 500-1½ with minimum climb of 380' per NM to 7000.

* LOST COMMUNICATION
ONLY

TAKEOFF OBSTACLE NOTES

Rwy 16L: Multiple poles, trees, bushes, and terrain beginning 618' from DER, 133' left of centerline, up to 20' AGL/4961' MSL.

Rwy 16R: Multiple trees 2784' from DER, 171' right of centerline, up to 20' AGL/4510' MSL.

Multiple trees and terrain beginning 746' from DER, 380' left of centerline, up to 20' AGL/4703' MSL.

Rwy 25: Multiple trees and poles beginning 829' from DER, 201' right of centerline, up to 103' AGL/4523' MSL.

Building 6023' from DER, 456' right of centerline, 152' AGL/4608' MSL.

Fence 222' from DER, 270' right of centerline, up to 5' AGL/4415' MSL.

Multiple trees and poles beginning 500' from DER, 31' left of centerline, up to 20' AGL/4506' MSL.

Rwy 34L: Multiple trees and pole beginning 1229' from DER, 180' right of centerline, up to 20' AGL/4498' MSL.

Multiple trees beginning 1193' from DER, 331' left of centerline, up to 20' AGL/4489' MSL.

Rwy 34R: Multiple trees and poles beginning 1067' from DER, 172' right of centerline, up to 20' AGL/4497' MSL.

Multiple trees and poles beginning 1230' from DER, 350' left of centerline, up to 20' AGL/4498' MSL.

Building 1.2 NM from DER, 1730' right of centerline, 363' AGL/4780' MSL.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb via I-RNO localizer South course. Thence....

TAKE-OFF RUNWAY 16R: Climb heading 156° CW 171° as assigned by ATC. Thence...

TAKE-OFF RUNWAY 25: Climb 254° heading to 5000 then climbing right turn heading 340°. Thence....

TAKE-OFF RUNWAYS 34L/R: Climb heading 330° CW 360° as assigned by ATC. Thence....

..... All aircraft maintain 15000 or assigned altitude. Expect clearance to requested altitude five minutes after departure. Expect radar vectors to assigned route/fix.

LOST COMMUNICATIONS: If not in contact with departure control within one minute after take-off, maintain assigned heading until passing 10,000; Thence....

....RUNWAYS 16L/R DEPARTURES: Turn left direct FMG VORTAC, then via assigned route.

....RUNWAYS 25 AND 34L/R DEPARTURES: Turn right direct FMG VORTAC, then via assigned route.

APP CRS
344°

Rwy Idg	10012
TDZE	4410
Apt Elev	4415

RNAV (GPS) X RWY 34L
RENO/TAHOE INTL (RNO)

RENO/TAHOE INTL (RNO)

T Circling to Rwy 7, 25 NA at night. DME/DME RNP-0.3 NA.
A Visibility reduction by helicopters NA.
 For inoperative MALSR increase LNAV Cat. A and B visibility

MISSED APPROACH: Climb to 10000 direct TAKLE and hold, continue climb-in-hold to 10000.

ATIS
135.8 363.0

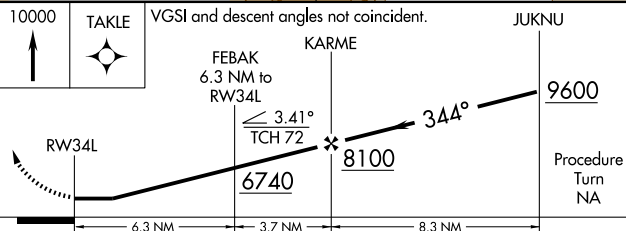
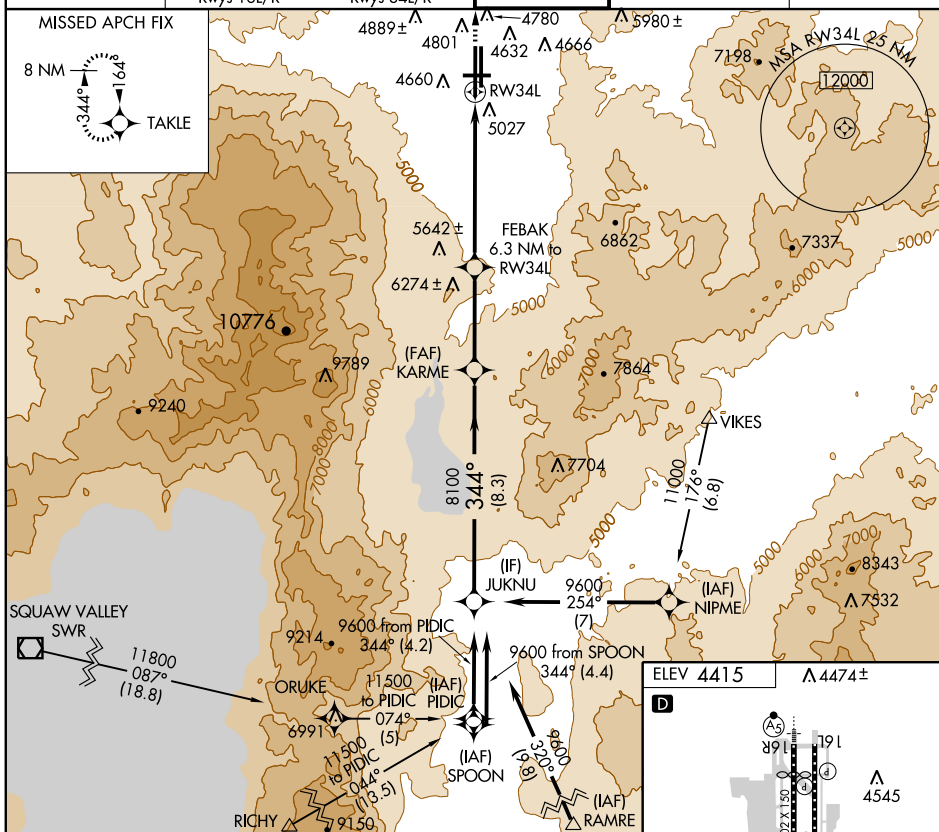
RENO APP CON			
126.3	353.9	119.2	279.55
Rwys 16L/R		Rwys 34L/R	

RENO TOWER
118.7 257.8

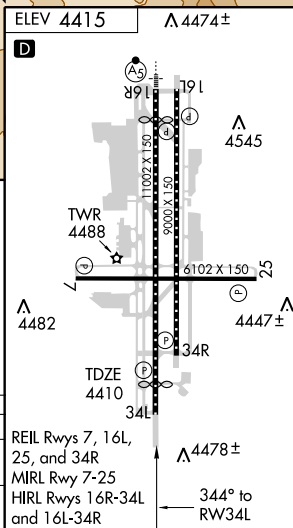
GND CON
121.9 348.6

CLNC DEL
124.9 370.85

MISSED APCH FIX



CATEGORY	A	B	C	D
LNAV MDA	5300-1	890 (900-1)	5300-2 1/4 890 (900-2 1/4)	5300-2 1/2 890 (900-2 1/2)
CIRCLING	5340-1 1/4	925 (1000-1 1/4)	5340-2 3/4 925 (1000-2 3/4)	5340-3 925 (1000-3)



APP CRS
344°

Rwy Idg	9000
TDZE	4408
Apt Elev	4415

RNAV (GPS) X RWY 34R

RENO/TAHOE INTL (RNO)

T	Circling to Rwy 7, 25 NA at night.
A	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 direct FOBAX and via 343° track to TAKLE and hold, continue climb-in-hold to 10000.

ATIS
135.8 363.0

RENO APP CON

126.3 353.9

119.2 279.55

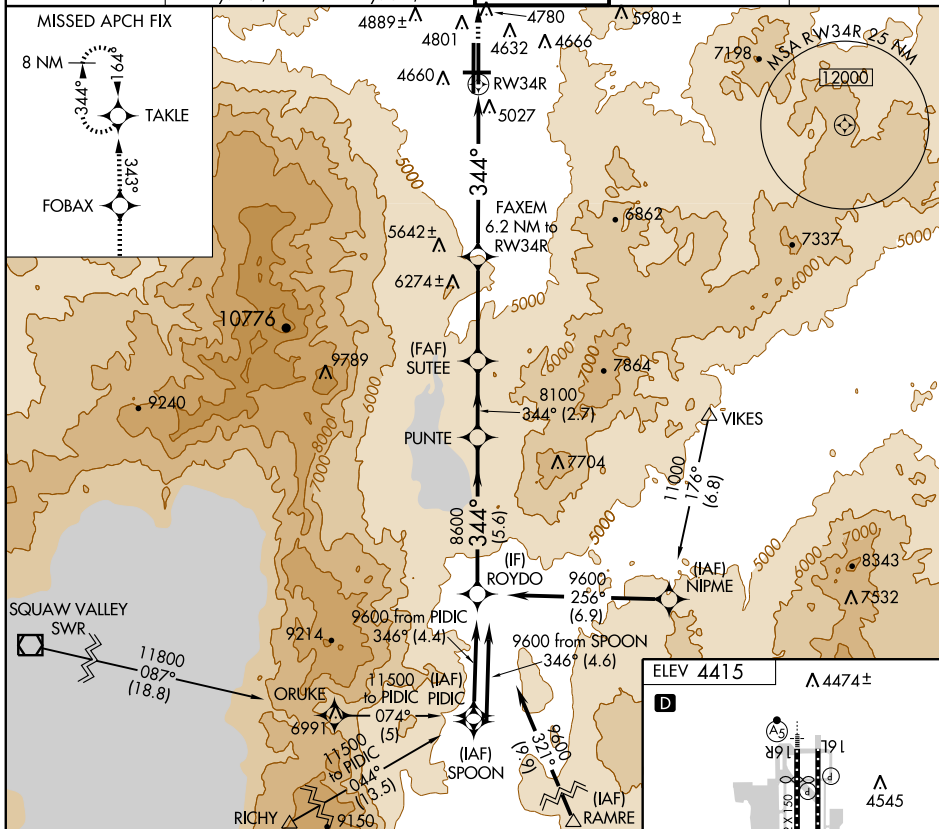
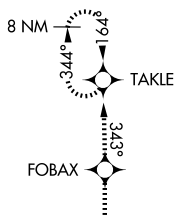
Rwys 16L/R Rwys 34L/R

RENO TOWER
118.7 257.8

GND CON
121.9 348.6

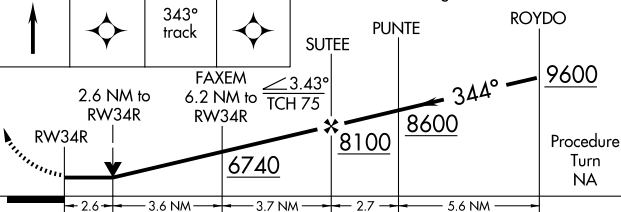
CLNC DEL
124.9 370.85

MISSED APCH FIX



SW-4. 14 JAN 2010 to 11 FEB 2010

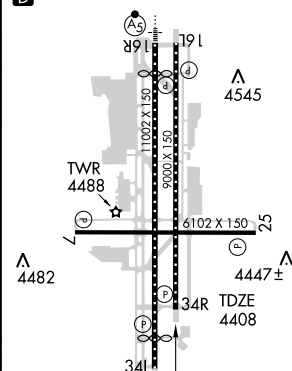
10000	FOBAX		TAKLE	VGSI and descent angles not coincident.
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ELEV 4415

 $\Delta 4474 \pm$

D



REIL Rwy 7, 16L,
25, and 34R
MIRL Rwy 7-25
HIRL Rwy 16R-34L
and 16L-34R

 $4478 \pm$

7. A

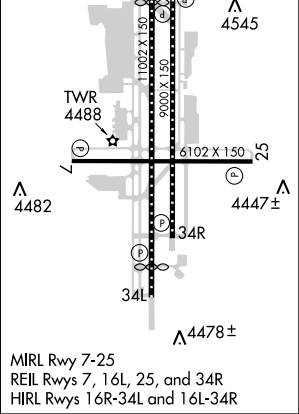
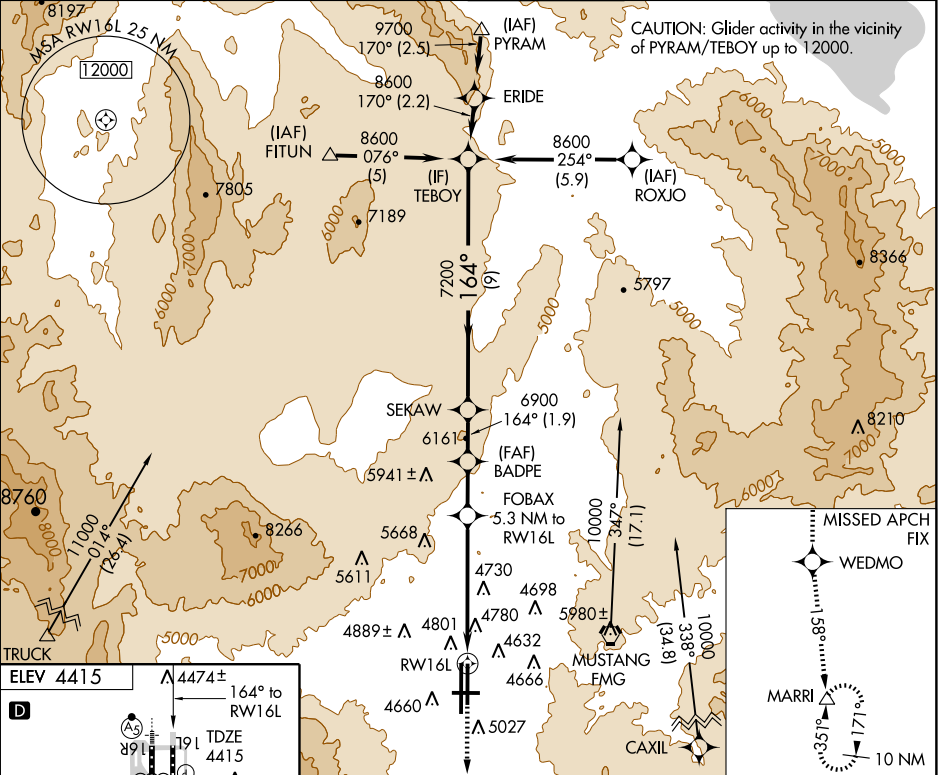
344° to

← RW34R

WAAS CH 72909 W16A	APP CRS 164°	Rwy Idg TDZE Apt Elev	9000 4415 4415
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RNAV (GPS) Y RWY 16L
RENO/TAHOE INTL (R.NO)

V A	Circling to Rwy 7, 25 NA at night. DME/DME RNP- 0.3 NA.			MISSED APPROACH: Climb to 13000 direct WEDMO and via 158° track to MARRI and hold.		
	ATIS 135.8 363.0	RENO APP CON 126.3 353.9 Rwys 16L/R	119.2 279.55 Rwys 34L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85



VGSI and RNAV glidepath not coincident.				13000	WEDMO	158° track	MARRI	
TEBOY SEKAW BADPE FOBAX 5.3 NM to RW16L *LNNAV only 8600 164° 7200 6900 *6240 9 NM 1.9 1.9 1.4 3.9 NM RW16L Procedure Turn NA GS 3.10° TCH 55								
CATEGORY	A	B	C	D				
LPV DA	5220-2¾ 805 (900-2¾)							
LNNAV MDA	5720-1¼ 1305 (1400-1¼)	5720-1½ 1305 (1400-1½)	5720-3	1305 (1400-3)				
CIRCLING	5720-1¼ 1305 (1400-1¼)	5720-1½ 1305 (1400-1½)	5720-3	1305 (1400-3)				

RNAV (GPS) Y RWY 16R
RENO/TAHOE INTL (RNO)

WAAS
CH 78309
W16B

APP CRS
164°

Rwy Idg
TDZE
Apt Elev

10003
4415
4415

✈

Circling to Rwy 7, 25 NA at night. DME/DME RNP- 0.3 NA. Inoperative table does not apply to LNAV Cats. A and B. For inoperative MALSR increase LPV all Cats. visibility to 2¾.

MALSR

AS

MISSED APPROACH: Climb to 13000 direct ZEXUT and via 158° track to MARRI and hold.

ATIS 135.8 363.0	RENO APP CON 126.3 353.9 119.2 279.55 Rwys 16L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
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Map showing the RNAV Y RWY 16R approach path. The path starts at the IAF PYRAM (9700, 171° (2.8)), proceeds to CEROX (8600, 171° (2.2)), then to FITUN (8600, 079° (4.9)), ECOLO (7200, 164° (8.8)), ETARE (6900, 164° (2)), and UDADY (6161, 5941±). The path continues to RWY 16R (4660, 5027). The map also shows the IAF ROXJO (8600, 251° (6)), MUSTANG FMG (5980±, 4632, 4666), and CAXIL (10000, 347° (1.7)). The map includes terrain contours, elevation points (e.g., 8760, 8266, 8366, 8210), and a CAUTION: Glider activity in the vicinity of PYRAM/ECOLO up to 12000. A TRUCK is marked near the 11000, 014° (24.4) point. A MISSED APCH FIX is shown with ZEXUT and MARRI. A 10 NM scale bar is provided.

Inset map showing the RNO area with various navigational aids and elevation points. The map includes the TWR 4488, TDZE 4415, and RWY 16R. The map also shows the IAF FITUN (8600, 079° (4.9)), ECOLO (7200, 164° (8.8)), ETARE (6900, 164° (2)), and UDADY (6161, 5941±). The map includes terrain contours, elevation points (e.g., 8760, 8266, 8366, 8210), and a CAUTION: Glider activity in the vicinity of PYRAM/ECOLO up to 12000. A TRUCK is marked near the 11000, 014° (24.4) point. A MISSED APCH FIX is shown with ZEXUT and MARRI. A 10 NM scale bar is provided.

VGSI and RNAV descent angles not coincident.				
Diagram showing the RNAV Y RWY 16R approach path with descent angles and distances. The path starts at the IAF PYRAM (9700, 171° (2.8)), proceeds to CEROX (8600, 171° (2.2)), then to FITUN (8600, 079° (4.9)), ECOLO (7200, 164° (8.8)), ETARE (6900, 164° (2)), and UDADY (6161, 5941±). The path continues to RWY 16R (4660, 5027). The map also shows the IAF ROXJO (8600, 251° (6)), MUSTANG FMG (5980±, 4632, 4666), and CAXIL (10000, 347° (1.7)). The map includes terrain contours, elevation points (e.g., 8760, 8266, 8366, 8210), and a CAUTION: Glider activity in the vicinity of PYRAM/ECOLO up to 12000. A TRUCK is marked near the 11000, 014° (24.4) point. A MISSED APCH FIX is shown with ZEXUT and MARRI. A 10 NM scale bar is provided.				
CATEGORY	A	B	C	D
LPV DA	5239-2¼ 824 (900-2¼)			
LNAV MDA	6200/60 1785 (1800-1¼)	6200-1½ 1785 (1800-1½)	6200-3	1785 (1800-3)
CIRCLING	6200-1¼ 1785 (1800-1¼)	6200-1½ 1785 (1800-1½)	6200-3	1785 (1800-3)

SW-4, 14 JAN 2010 to 11 FEB 2010

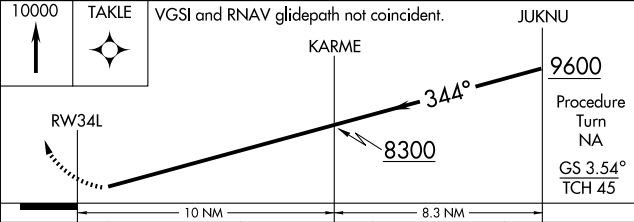
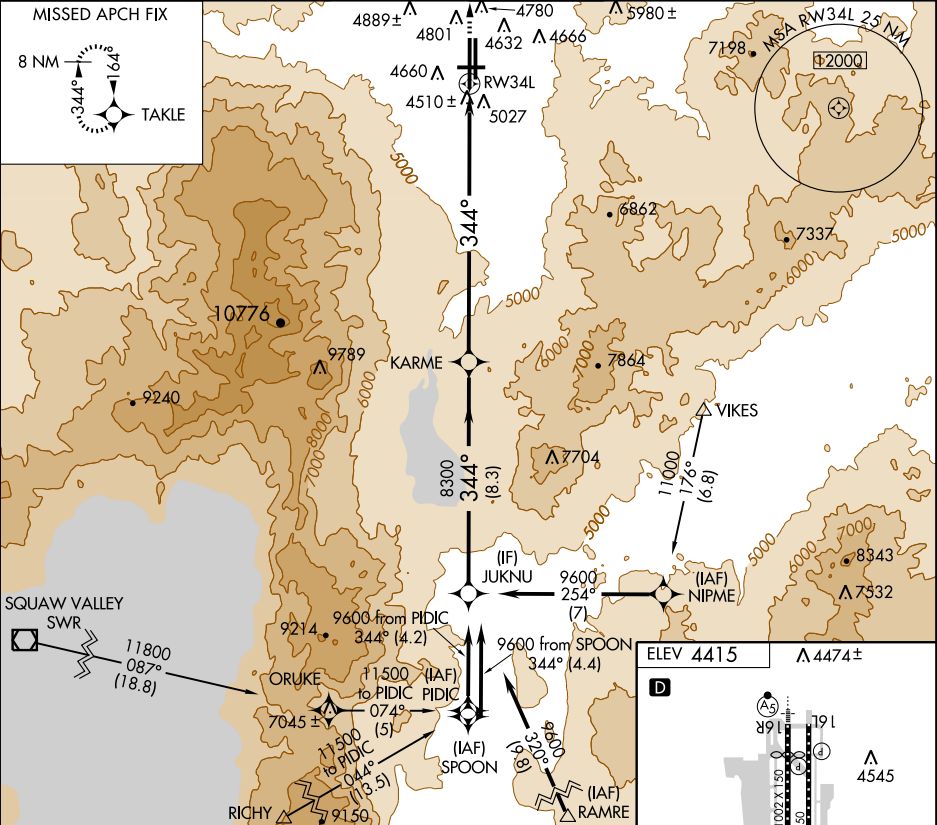
RNAV (GPS) Y RWY 34L
RENO/TAHOE INTL (RNO)

WAAS CH 82609 W34A	APP CRS 344°	Rwy Idg 10012 TDZE 4410 Apt Elev 4415
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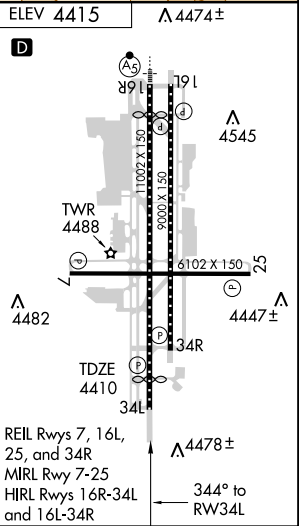
⚠ Circling to Rwy 7, 25 NA at night. Visibility reduction by helicopters NA.
⚠ DME/DME RNP 0.3 NA. Circling requires descent on glidepath to CMDA.
For inoperative MALSR increase LPV all Cats visibility ½ mile.

MISSED APPROACH: Climb to 10000 direct
TAKLE and hold, continue climb-in-hold to 10000.

ATIS 135.8 363.0	RENO APP CON 126.3 353.9 119.2 279.55 Rwys 16L/R Rwys 34L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
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CATEGORY	A	B	C	D
LPV DA	5018-1¼	608 (700-1¼)		NA
CIRCLING	5340-1¾	925 (1000-1¾)	5340-3 925 (1000-3)	NA



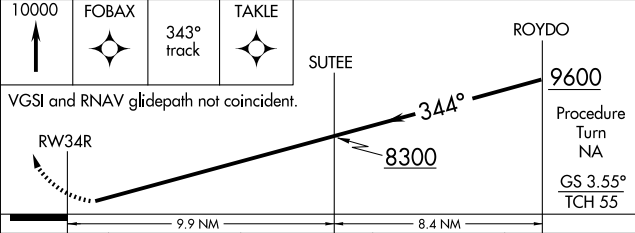
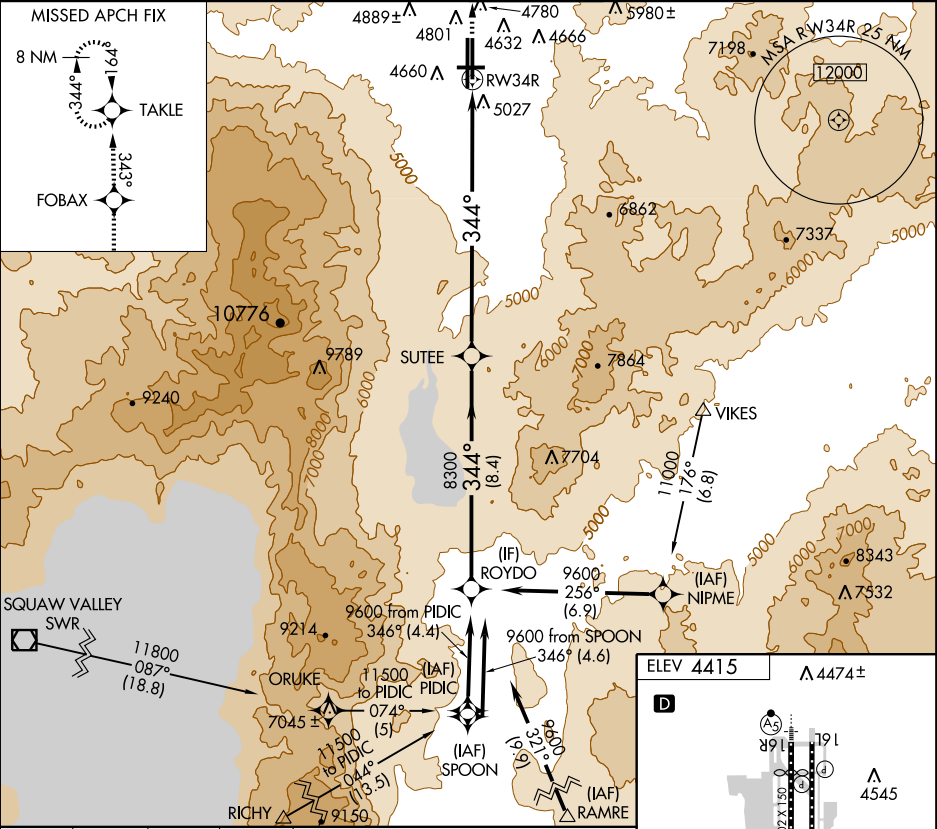
RNAV (GPS) Y RWY 34R
RENO/TAHOE INTL (RNO)

WAAS CH 40409 W34B	APP CRS 344°	Rwy Idg TDZE Apt Elev 9000 4408 4415
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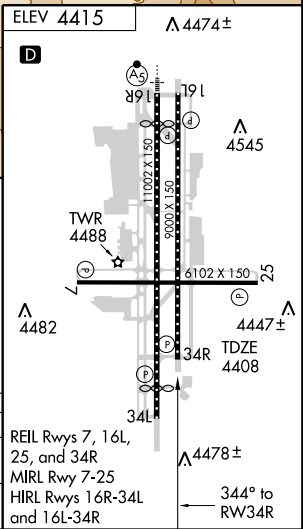
⚠ Circling to Rwy 7, 25 NA at night. DME/DME RNP-0.3 NA.
⚠ Visibility reduction by helicopters NA.
Circling requires descent on glidepath to CMDA.

MISSED APPROACH: Climb to 10000 direct FOBAX and via 343° track to TAKLE and hold, continue climb-in-hold to 10000.

ATIS 135.8 363.0	RENO APP CON 126.3 353.9 Rwys 16L/R	119.2 279.55 Rwys 34L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
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CATEGORY	A	B	C	D
LPV DA	5043-2	635 (700-2)		NA
CIRCLING	5340-2	925 (1000-2)	5340-2¾ 925 (1000-2¾)	NA



APP CRS 164°	Rwy Idg 9000 TDZE 4415 Apt Elev 4415
------------------------	---

RNAV (RNP) Z RWY 16L

RENO/TAHOE INTL (RNO)

- ▼** RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (7°F) or above 54°C (130°F).
- ▲** * Missed approach requires minimum climb of 260 feet per NM to 7300. Visibility reduction by helicopters NA.
When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 13000 via track 164° to ZIDGO and via track 181° to USINE and via track 124° to YARKU and hold, continue climb-in-hold to 13000.

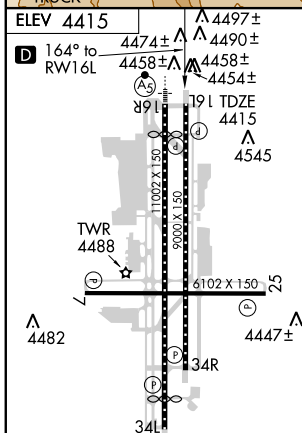
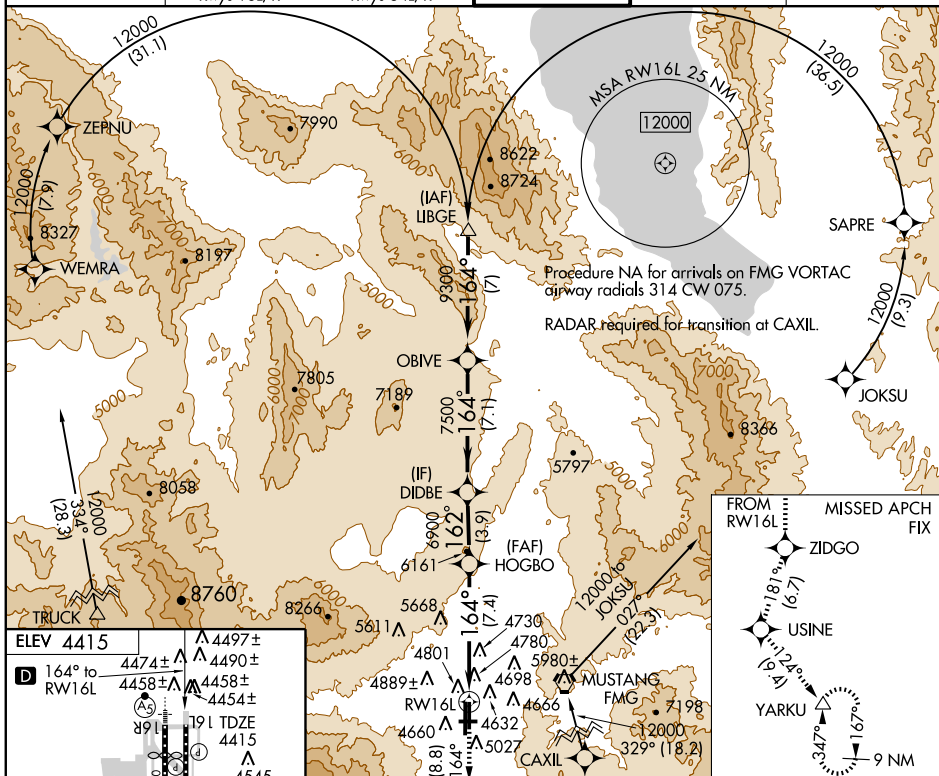
ATIS
135-8 363-0

RENO APP CON			
126.3	353.9	119.2	279.55
Rwys 16L/R		Rwys 34L/R	

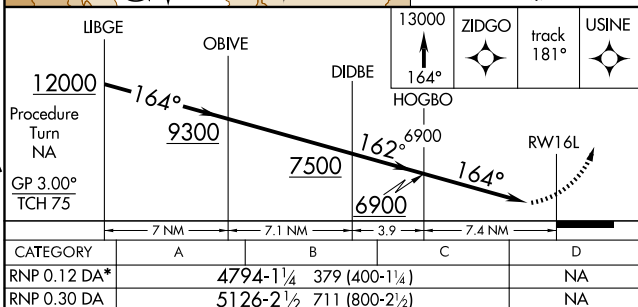
RENO TOWER
118.7 257.8

GND CON
121.9 348.6

CLNC DEL
124.9 370.85



MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

APP CRS	Rwy Idg	10003
164°	TDZE	4415
	Apt Elev	4415

RNAV (RNP) Z RWY 16R

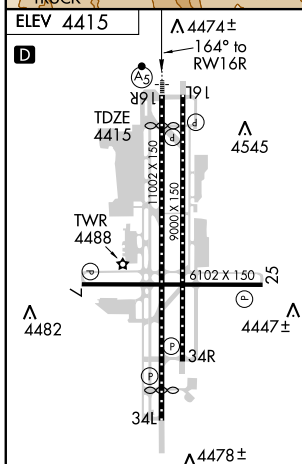
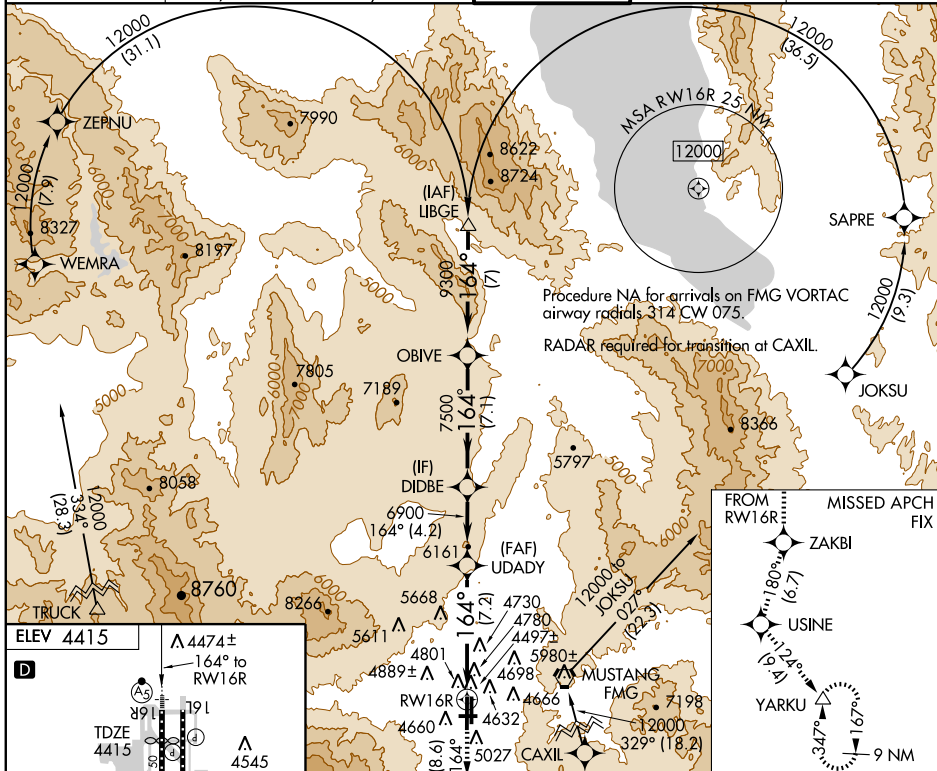
RENO/TAHOE INTL (RNO)

- ▼ RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (7°F) or above 54°C (130°F).
 ▲ For inoperative MALSR, increase RNP 0.17* all Cats visibility to RVR 6000 and RNP 0.30 all Cats visibility to 2½ miles.
 *Missed approach requires minimum climb of 260 feet per NM to 7300.



MISSED APPROACH: Climb to 13000 via track 164° to ZAKBI and via track 180° to USINE and via track 124° to YARKU and hold, continue climb-in-hold to 13000.

ATIS	RENO APP CON	RENO TOWER	GND CON	CLNC DEL
135.8 363.0	126.3 353.9 Rwys 16L/R	119.2 279.55 Rwys 34L/R	121.9 348.6	124.9 370.85



LIBGE	OBIVE	DIDBE	UDADY	YARKU	USINE
12000	9300	7500	6900	13000	13000
Procedure Turn NA					
GP 3.10° TCH 63					
7 NM	7.1 NM	4.2	7.2 NM		
CATEGORY	A	B	C	D	
RNP 0.17 DA*	4821/40	406 (500-¾)		NA	
RNP 0.30 DA	5140-2	725 (800-2)		NA	

MIRL Rwy 7-25
 REIL Rwys 7, 16L, 25, and 34R
 HIRL Rwys 16R-34L and 16L-34R

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**

APP CRS 344°	Rwy Idg 10012 TDZE 4410 Apt Elev 4415
------------------------	--

RNAV (RNP) Z RWY 34L

RENO/TAHOE INTL (RNO)



GPS required. Visibility reduction by helicopters NA.

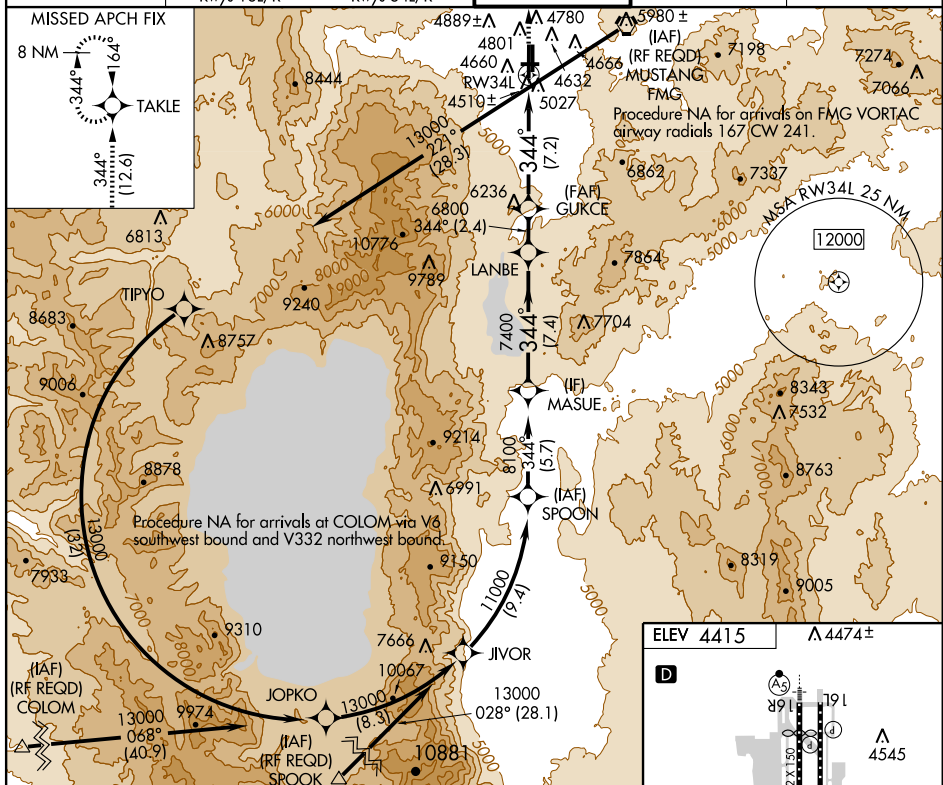
For uncompensated Baro-VNAV systems, procedure NA below -13°C (8°F) or above 40°C (104°F).

For inoperative MALSR increase visibility RNP 0.12 to 1¼ mile and RNP 0.30 to 4 miles.

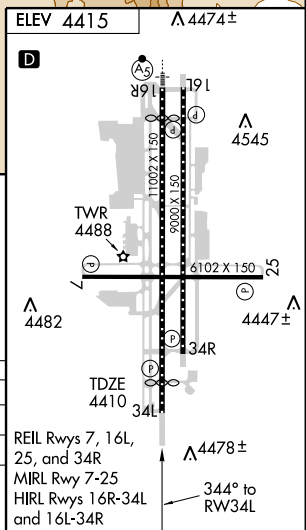
*Missed approach requires minimum climb of 243 feet per NM to 7200.

MISSED APPROACH: Climb to 10000 via 344° track to TAKLE and hold, continue climb-in-hold to 10000.

ATIS	RENO APP CON		RENO TOWER	GND CON	CLNC DEL
135.8 363.0	126.3 353.9	119.2 279.55	118.7 257.8	121.9 348.6	124.9 370.85
	Rwvs 16L/R	Rwvs 34L/R			



10000 ↑ 344°		VGSI and RNAV glidepath not coincident.			MASUE
		GUKCE	LANBE		
		6800		344°	8100
RW34L		6800	7400	Procedure Turn NA	GP 3.00° TCH 45
		7.2 NM	2.4 NM	7.4 NM	
CATEGORY	A	B	C	D	
RNP 0.12 DA*	4771-1 361 (400-1)				
RNP 0.30 DA	5342-2 $\frac{3}{4}$ 932 (1000-2 $\frac{3}{4}$)				



SW-4. 14 JAN 2010 to 11 FEB 2010

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

MISSED APCH FIX

8 NM
344°
TAKLE
HOGBO
342°
(9.3)

Procedure NA for arrivals at COLOM via V6 southwest bound and V332 northwest bound.

Procedure NA for arrivals on FMG VORTAC airway radials 167 CW 241.

ELEV 4415
Λ 4474±

D

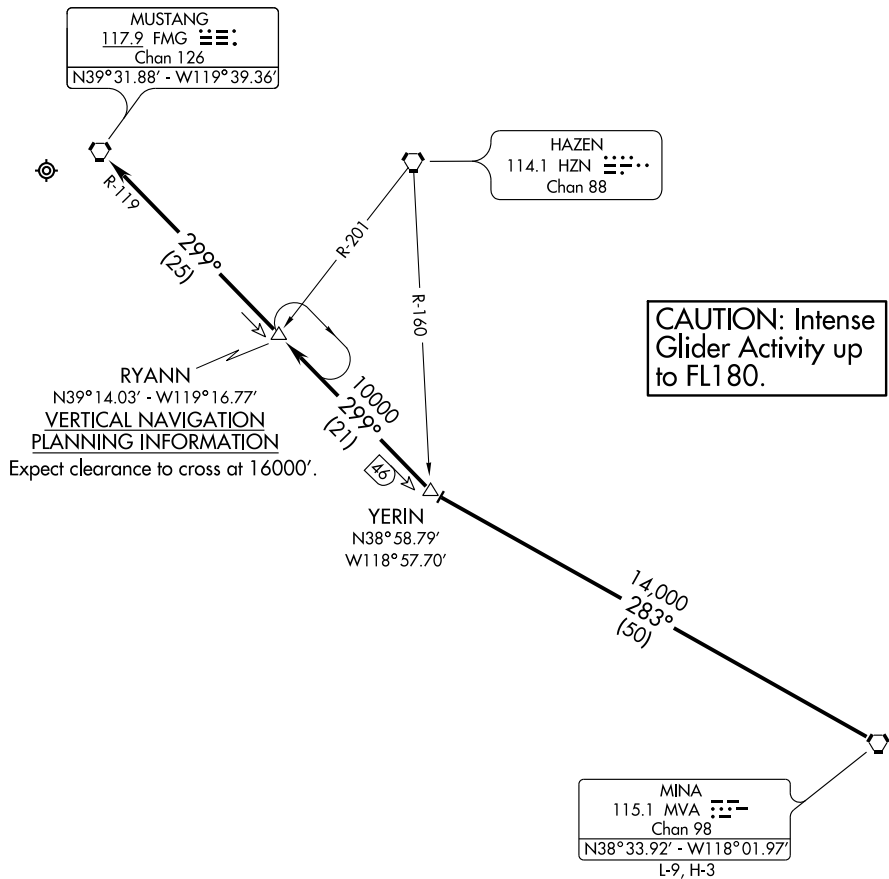
TWR 4488
Λ 4482
34R TDZE 4408
Λ 4478±
34L
34R
34L

REIL Rwy 7, 16L, 25, and 34R
MIRL Rwy 7-25
HIRL Rwy 16R-34L and 16L-34R

CATEGORY	A	B	C	D
RNP 0.15 DA	5173-2¾	765 (800-2¾)		
RNP 0.30 DA	5344-4	936 (1000-4)		

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

RENO APP CON
RWYS 16L/R 126.3 353.9
RWYS 34L/R 119.2 279.55
ATIS 135.8 363.0



NOTE: For Runway 16 only.

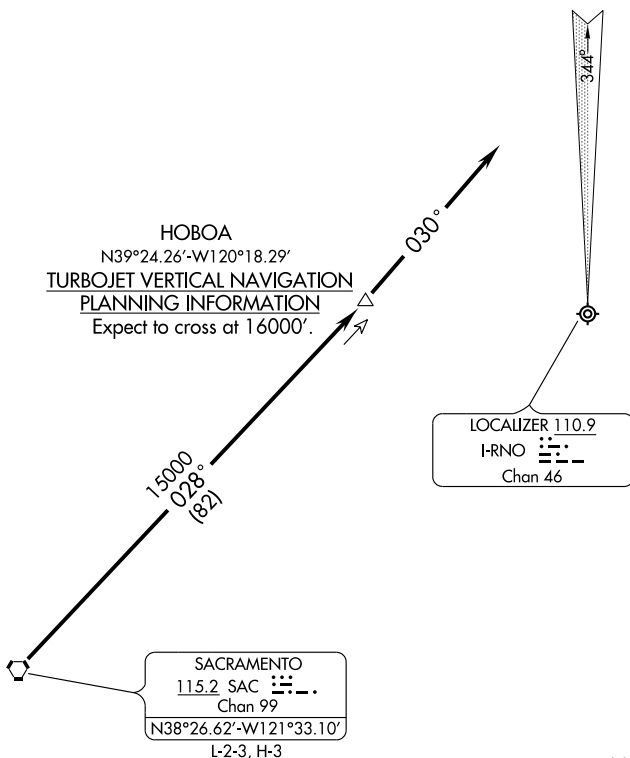
NOTE: RADAR Required.

NOTE: Chart not to scale.

RUNWAY 16: From over MVA VORTAC via MVA R-283 to YERIN INT. Thence via FMG R-119 to FMG VORTAC. Expect radar vectors to Runway 16.

RENO APP CON
RWY 16L/R 126.3 353.9
RWY 34L/R 119.2 279.55
ATIS 135.8 363.0

**CAUTION: Intense
Glider Activity up
to FL180.**



NOTE: RADAR required.

NOTE: DME required.

NOTE: Chart not to scale.

From over SAC VORTAC via SAC R-028 to HOB OA INT/SAC 82 DME. Depart HOB OA heading 030° for vectors to final approach.

SOUTH HILLS VISUAL RWY 34L/R

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

ATIS 135.8 363.0
RENO APP CON
119.2 279.55
RENO TOWER
118.7 257.8
GND CON
121.9 348.6
CLNC DEL
124.9 370.85

MUSTANG
117.9 FMG
Chan 126

LOCALIZER
110.9
I-RNO
Chan 46

RADAR REQUIRED

Weather Minima: 5000 foot
ceiling and 5 mile visibility

NOTE: Rwy 34L and Rwy 34R PAPI not
to be used beyond 6 NM due to high
terrain.

Vertical Guidance Navaid
and Angle:
PAPI Rwy 34L and 34R (3.0°)

MT. ROSE
10776

SLIDE MTN
SKI AREA
9789

WASHOE
LAKE

SOUTH HILLS
(NOISE SENSITIVE)

HILTON
HOTEL

NUGGET
HOTEL

HIDDEN VALLEY
(NOISE SENSITIVE)

RATTLESNAKE
PEAK
5023

6385

LOUSE
PEAK
6862

VIRGINIA
FOOTHILLS
(NOISE SENSITIVE)

STEAMBOAT
SPRINGS

I-RNO
9

CAUTION:
Intensive
Glider
Activity

VIRGINIA
CITY

1 NM 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SOUTH HILLS VISUAL APPROACH RUNWAY 34L/R PROCEDURE NOT AUTHORIZED AT NIGHT

When visual approaches to Runways 34L/R are in progress, clearances to aircraft
will be given utilizing the following phraseology:

"(IDENT) CLEARED FOR SOUTH HILLS VISUAL RUNWAY 34 LEFT/RIGHT APPROACH."

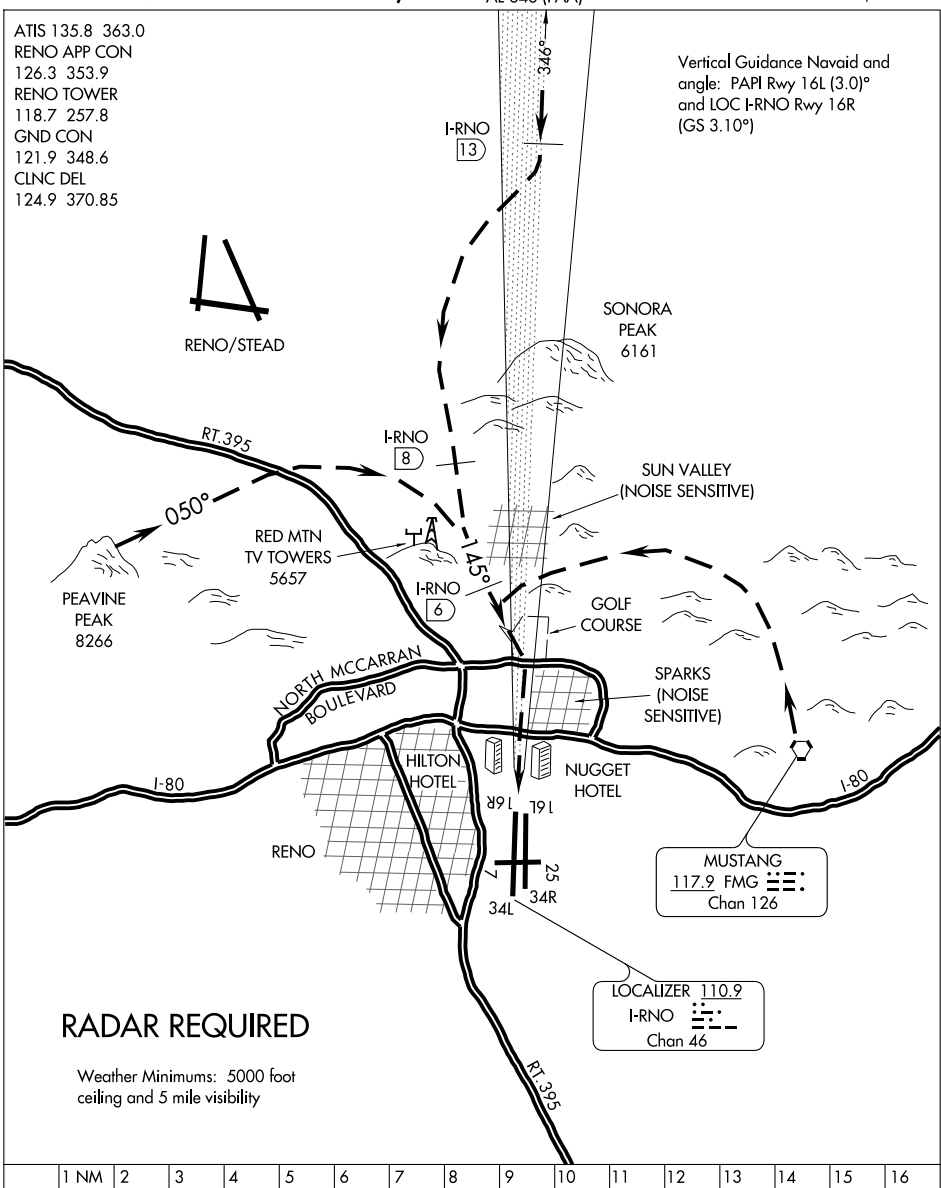
SPARKS VISUAL RWY 16L/R

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

ATIS 135.8 363.0
RENO APP CON
126.3 353.9
RENO TOWER
118.7 257.8
GND CON
121.9 348.6
CLNC DEL
124.9 370.85

Vertical Guidance Navaid and
angle: PAPI Rwy 16L (3.0)°
and LOC I-RNO Rwy 16R
(GS 3.10°)



RADAR REQUIRED

Weather Minimums: 5000 foot
ceiling and 5 mile visibility

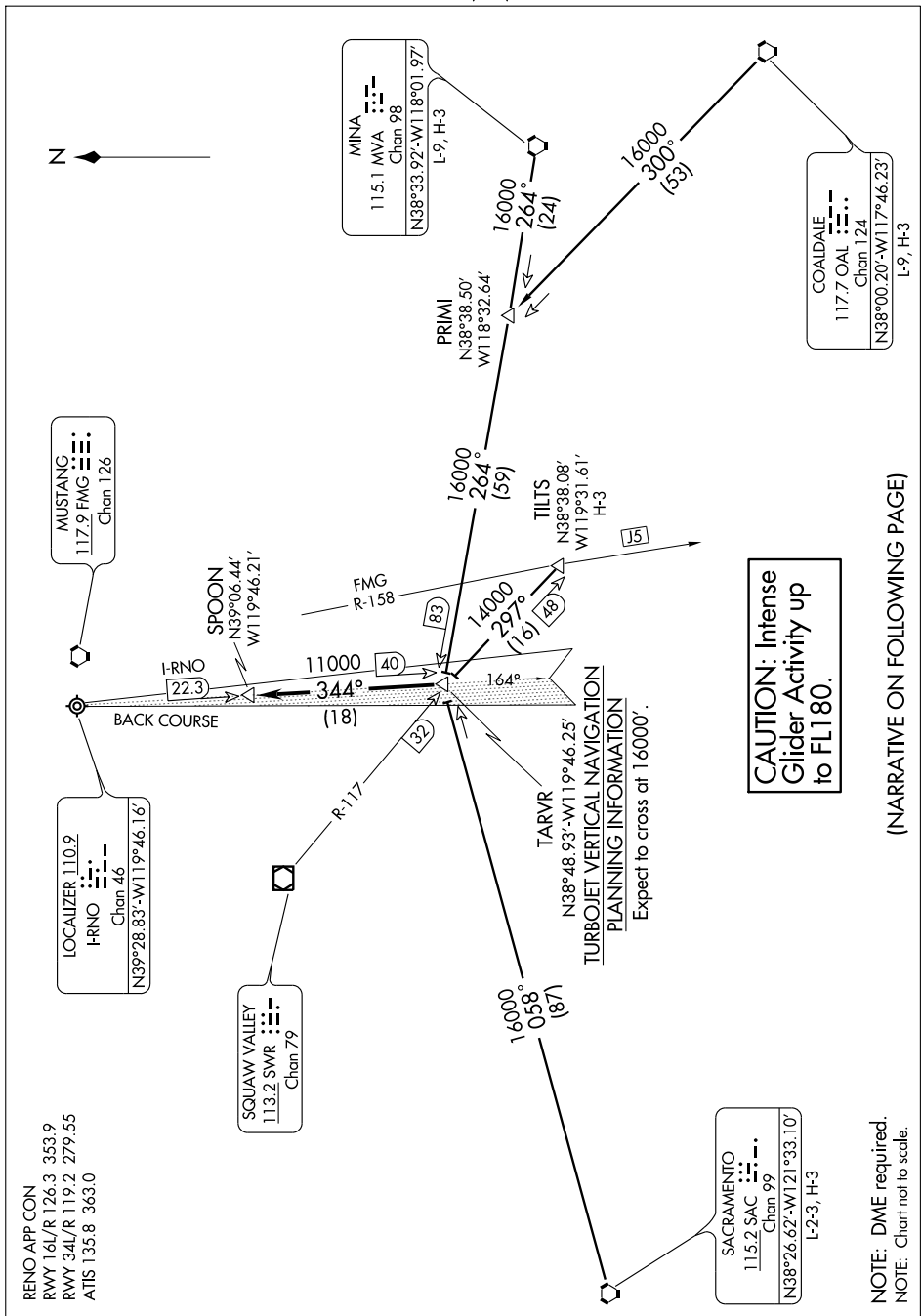
1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
------	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

SPARKS VISUAL APPROACH RWY 16L/R PROCEDURE NOT AUTHORIZED AT NIGHT

When visual approaches to Runways 16L/R are in progress clearances to aircraft
will be given utilizing the following phraseology:
(IDENT) CLEARED FOR SPARKS VISUAL RUNWAY 16 LEFT/RIGHT APPROACH

TARVR ONE ARRIVAL

ST-346 (FAA)

RENO/TAHOE INTL
RENO, NEVADA

ARRIVAL ROUTE DESCRIPTION

COALDALE TRANSITION (OAL.TARVR1): From over OAL VORTAC via the OAL R-300 and the MVA R-264 to TARVR INT/DME. Thence....

MINA TRANSITION (MVA.TARVR1): From over the MVA VORTAC via MVA R-264 to TARVR INT/DME. Thence....

SACRAMENTO TRANSITION (SAC.TARVR1): From over SAC VORTAC via SAC R-058 to TARVR INT/DME. Thence....

TILTS TRANSITION (TILTS.TARVR1): From over TILTS INT/DME via SWR R-117 to TARVR INT/DME. Thence....

....From over TARVR INT/DME via I-RNO back course to SPOON I-RNO 22.3 DME.

VIKES ONE ARRIVAL

ST-346 (FAA)

RENO/TAHOE INTL
RENO, NEVADA

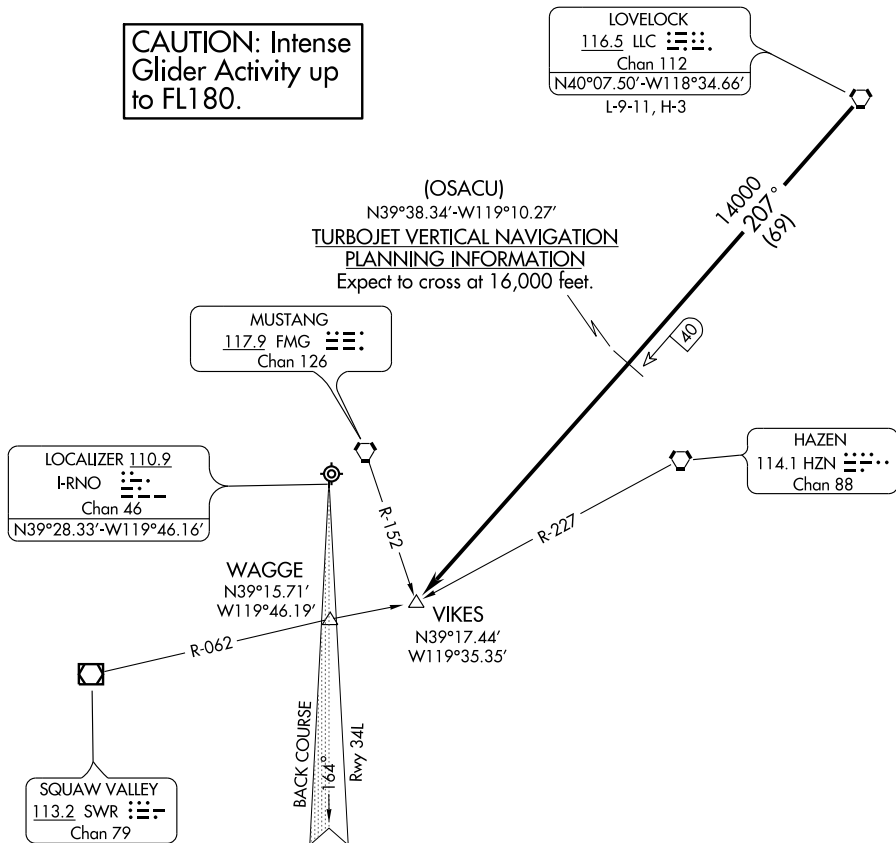
RENO APP CON

RWY 16L/R 126.3 353.9

RWY 34L/R 119.2 279.55

ATIS 135.8 363.0

**CAUTION: Intense
Glider Activity up
to FL180.**



NOTE: Chart not to scale.

From over LLC VORTAC via LLC R-207 to VIKES INT/DME, then radar vectors to the LOCALIZER BACK COURSE I-RNO.

LOST COMMUNICATIONS:

Proceed via the VIKES-WAGGE terminal route and execute the LOC/DME BC RWY 34L approach to Tahoe Intl.

VISTA ONE DEPARTURE

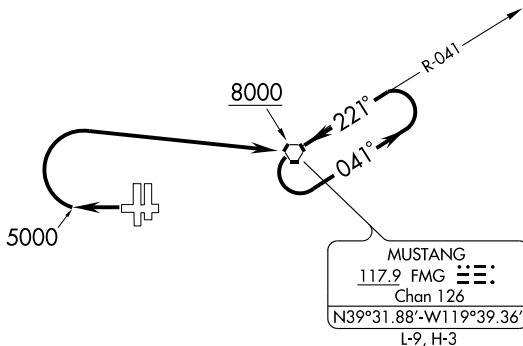
SL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

ATIS 135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
RENO DEP CON
126.3 353.9

TAKE-OFF OBSTACLE NOTES

Rwy 25: Multiple poles left and right of centerline beginning 500' from DER, 467' left of centerline, up to 48' AGL/4523' MSL.
Numerous trees left and right of centerline, beginning 1877' from DER, 31' left of centerline, up to 40' AGL/4506' MSL.
Sign, 1656' from DER, 422' left of centerline, up to 31' AGL/4482' MSL.

TAKE-OFF MINIMUMS

Rwy 7: NA- obstacles

Rwys 16L, 16R, 34L, 34R: NA- ATC.

Rwy 25: Cat A/B, do not exceed 180 KIAS until FMG VORTAC, standard with a minimum climb of 380' per NM to 8400, ATC climb of 495' per NM to 8000.

Cat C/D: NA- Air traffic control.

**CAUTION: Intense
Glider Activity up
to FL180.**

NOTE: Chart not to scale.

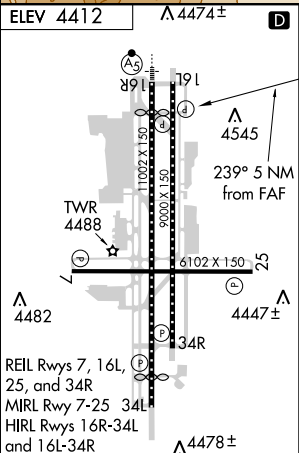
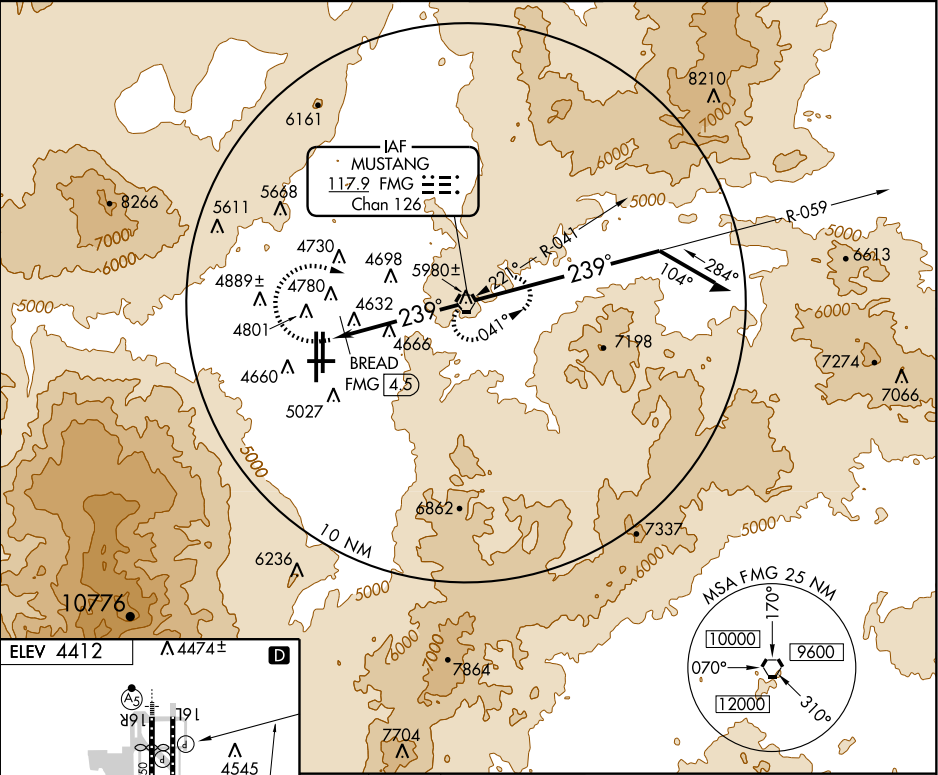
DEPARTURE ROUTE DESCRIPTION

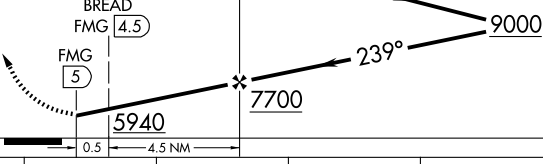
TAKE-OFF RUNWAY 25: Climb to 5000, then climbing right turn to 10000 or assigned altitude direct FMG VORTAC, cross FMG VORTAC at or above 8000. Climb in FMG holding pattern to depart FMG VORTAC at or above MEA/MCA for direction of flight. Expect clearance to requested altitude five minutes after departure.

VORTAC FMG 117.9 Chan 126	APP CRS 239°	Rwy Idg TDZE Apt Elev	N/A N/A 4412
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VOR-D
RENO/TAHOE INTL (RNO)

V A		MISSED APPROACH: Climbing right turn to 10000 direct FMG VORTAC and hold. Continue climb-in-hold to 10000.		
ATIS 135.8 363.0	RENO APP CON 126.3 353.9 119.2 279.55 Rwys 16L/R Rwys 34L/R	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85



10000	FMG	VORTAC		Remain within 10 NM
	 117.9			
				
CATEGORY	A	B	C	D
CIRCLING	5940-1¼ 1528 (1600-1¼)	5940-1½ 1528 (1600-1½)	5940-3	1528 (1600-3)
BREAD FIX MINIMUMS				
CIRCLING	5800-1¼ 1388 (1400-1¼)	5800-1½ 1388 (1400-1½)	5800-3	1388 (1400-3)

WAGGE TWO DEPARTURE

SL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

ATIS 135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
RENO DEP CON
119.2 279.55

CAUTION: Intensive Glider Activity

LOVELOCK
116.5 LLC
Chan 112
N40°07.50'-W118°34.66'
L-9-11, H-3

NOTE: All Runways: Cross departure
end of rwy at or above 35 AGL.

NOTE: Rwy 16L: Tower/hazard beacon 6056'
from departure end of rwy, 2403 left of
centerline, 16 AGL/5027 MSL.

NOTE: Rwy 16R: Terrain 7638' from departure
end of rwy, 2349 left of centerline,
4703 MSL.

LOCALIZER 110.9
I-RNO
Chan 46
N39°28.83'-W119°46.16'

MUSTANG
117.9 FMG
Chan 126
N39°31.88'-W119°39.36'
L-9, H-3

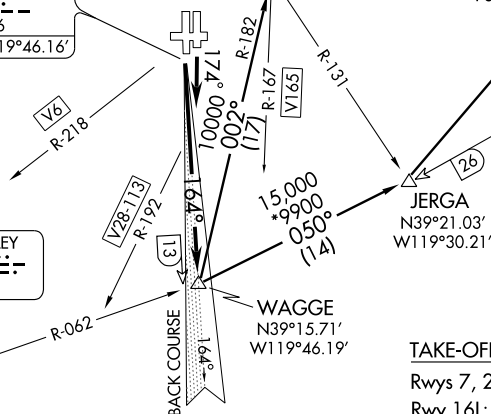
**MINIMUM CROSSING
ALTITUDES AT FMG
FOR MUSTANG TRANSITION**

V6 Southwest	12,000
V28-113 South	10,500
V165 South	10,000

SQUAW VALLEY
113.2 SWR
Chan 79

HAZEN
114.1 HZN
Chan 88

**CAUTION: Intense
Glider Activity up
to FL180.**



TAKE-OFF MINIMUMS

Rwys 7, 25, 34L/R: NA- Air Traffic.

Rwy 16L: Standard with a minimum climb
of 740' per NM to 8000.

Rwy 16R: Standard with a minimum climb
of 370' per NM to 9200.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climbing right turn heading 174° to intercept I-RNO South
course to WAGGE INT, thence via (transition) or (assigned route).

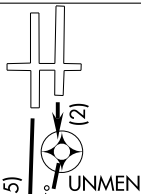
TAKE-OFF RUNWAY 16R: Climb via I-RNO South course to WAGGE INT, thence via
(transition) or (assigned route).

All aircraft maintain 15,000 or assigned altitude. Expect clearance to requested altitude
five minutes after departure

LOVELOCK TRANSITION (WAGGE2.LLC): From over WAGGE INT via HZN R-230 and
LLC R-206 to LLC VORTAC.

MUSTANG TRANSITION (WAGGE2.FMG): From over WAGGE INT via FMG R-182 to
FMG VORTAC.

ATIS 135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
RENO DEP CON
119.2 279.55

**TAKE-OFF MINIMUMS**

Rwys 7, 25, 34L, 34R: NA - ATC

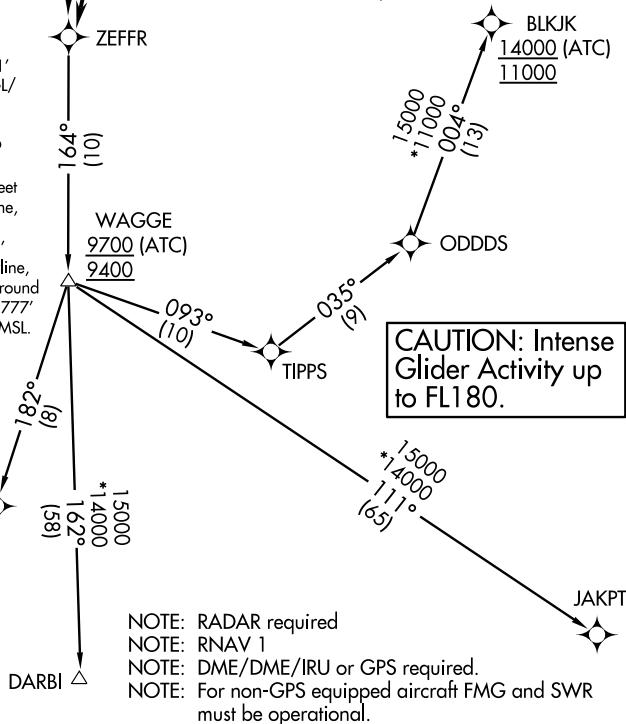
Rwy 16L: 600-2 with the following minimum climb requirements: Obstacle climb of 352 feet per NM to 11100, ATC climb of 390 feet per NM to 13000.

Rwy 16R: Standard with the following minimum climb requirements: Obstacle climb of 371 feet per NM to 11000, ATC climb of 398 feet per NM to 13000.

TAKE-OFF OBSTACLE NOTES

RWY 16L: Antenna, trees, and light poles beginning 618' from DER, 131' left of centerline, up to 40' AGL/4449' MSL.
Terrain beginning 5189' from DER, 821' left of centerline, up to 4939' MSL.

RWY 16R: Multiple trees beginning 746 feet from DER, 380' left of centerline, up to 49' AGL/4478' MSL.
Multiple trees beginning 2783' from DER, 171' right of centerline, up to 71' AGL/4510' MSL. Ground beginning 1.2 NM from DER, 777' left of centerline, up to 4703' MSL.



NOTE: RADAR required

NOTE: RNAV 1

NOTE: DME/DME/IRU or GPS required.

NOTE: For non-GPS equipped aircraft FMG and SWR must be operational.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAY 16L: Climb direct UNMEN, then via 167° track to ZEFFR, Thence...

TAKE-OFF RUNWAY 16R: Climb direct ZEFFR, Thence...

....via (transition) or (assigned route). Maintain 15000. Expect clearance to filed altitude five minutes after departure.

BLKJK TRANSITION (ZFFR3.BLKJK)

DARBI TRANSITION (ZFFR3.DARBI)

JAKPT TRANSITION (ZFFR3.JAKPT)

MRLET TRANSITION (ZFFR3.MRLET)

WAAS CH 60920 W32A	APP CRS 318°	Rwy Idg TDZE Apt Elev	7800 5045 5050
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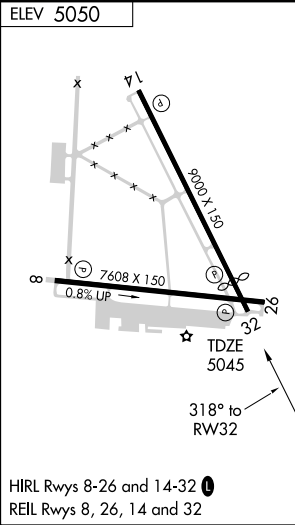
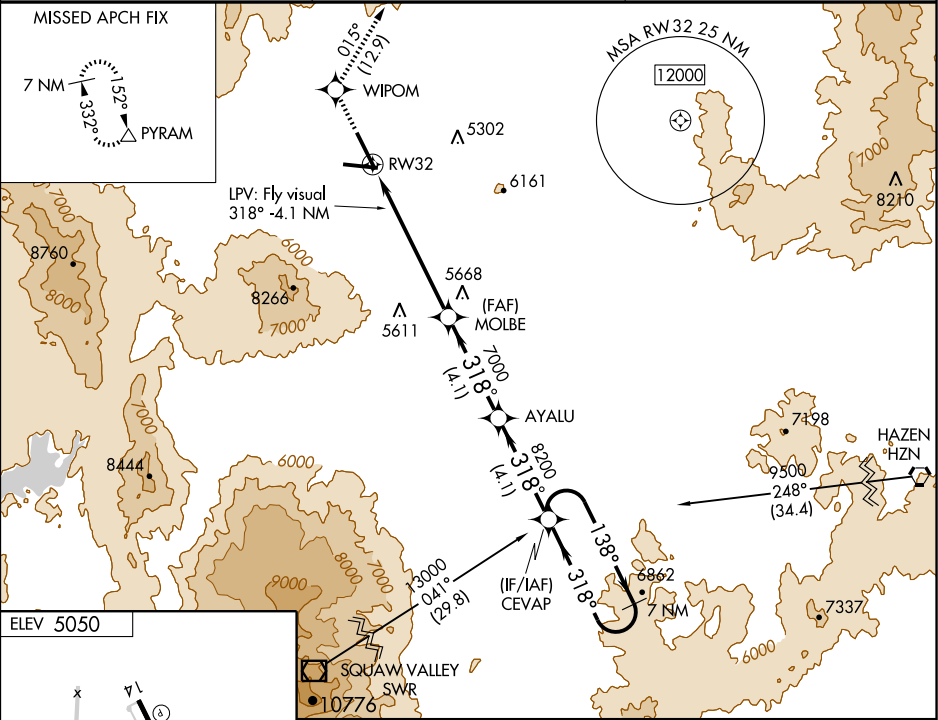
RNAV (GPS) RWY 32

RENO/STEAD (RTS)

NA DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Reno/Tahoe Intl altimeter setting and increase all DAs/MDAs 120 feet.
VDP NA when using Reno/Tahoe Intl altimeter setting.
When VGSI inoperative, circling Rwy 8 NA at night.

MISSED APPROACH: Climb to 11000 direct WIPOM and via 015° track to PYRAM and hold, continue climb-in-hold to 11000.

AWOS-A 135.175	RENO APP CON 126.3 353.9	UNICOM 122.7 (CTAF) 0
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11000	WIPOM	015° track	PYRAM	7 NM Holding Pattern
LPV: Fly visual 318° -4.1 NM	MOLBE	*LNAV only	AYALU	CEVAP
RWY 32	*5.1 NM to RWY 32			
318°	138°	318°	9400	GS 3.00° TCH 40
5.1 NM	0.8	4.1 NM	4.1 NM	
CATEGORY	A	B	C	D
LPV DA	6390-2	1345 (1400-2)	6390-3	1345 (1400-3)
LNAV/VNAV DA	NA			
LNAV MDA	6700-1¼ 1655 (1700-1¼)	6700-1½ 1655 (1700-1½)	6700-3	1655 (1700-3)
CIRCLING	6700-5 1650 (1700-5)			

AIRPORT DIAGRAM

AL-423 (FAA)

TONOPAH (TPH)
TONOPAH, NEVADA

ASOS
118.875
CTAF/UNICOM
123.0

FIELD
ELEV
5430

ELEV
5430

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

VAR 13.9°E

5494

111.1°

6196 X 50

7161 X 80

0.5% UP

331.1°

ELEV
5395

1655 X 75

RWY 11-29
S30, D66, ST84, DT77
RWY 15-33
S30

291.1°

ELEV
5410

0.3% UP

38°04'N

38°03'N

117°06'W

117°05'W

SW-4, 14 JAN 2010 to 11 FEB 2010

GPS RWY 15
TONOPAH (TPH)

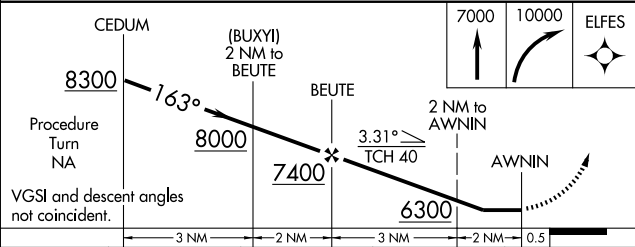
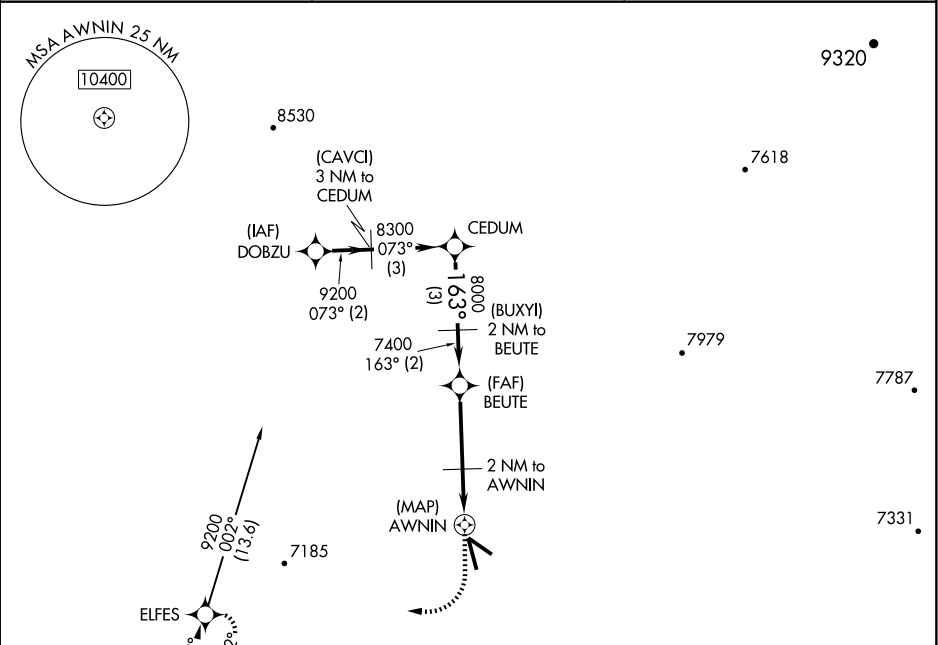
APP CRS	Rwy Idg
163°	7161
	TDZE
	5430
	Apt Elev
	5430

▼

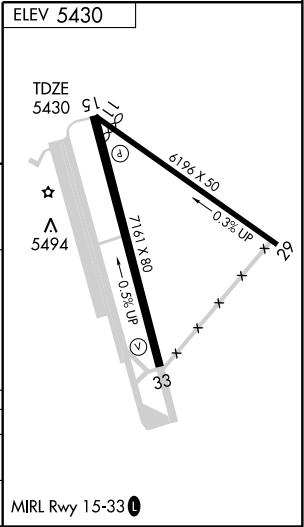
▲ NA

MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct ELFES WP and hold.

ASOS 118.875	SALT LAKE CITY CENTER 133.45 317.625	UNICOM 123.0 (CTAF) 0
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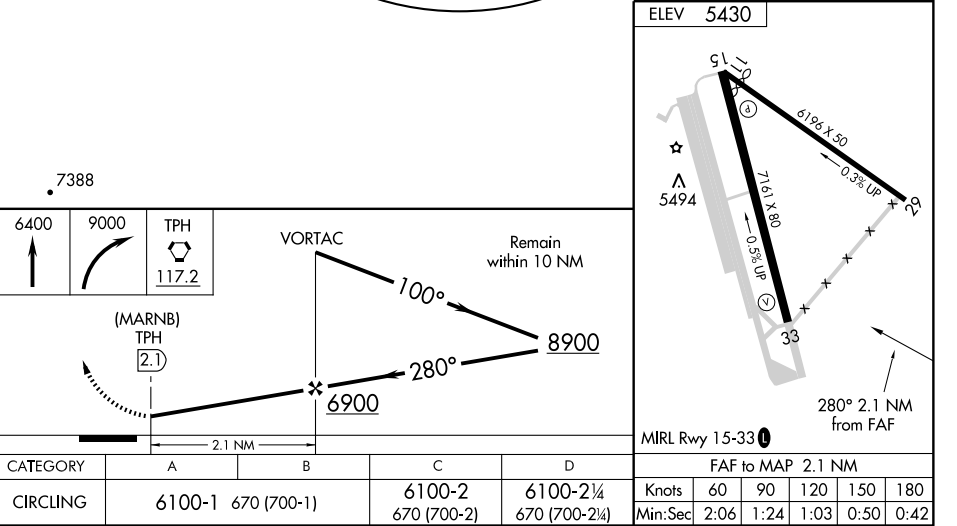
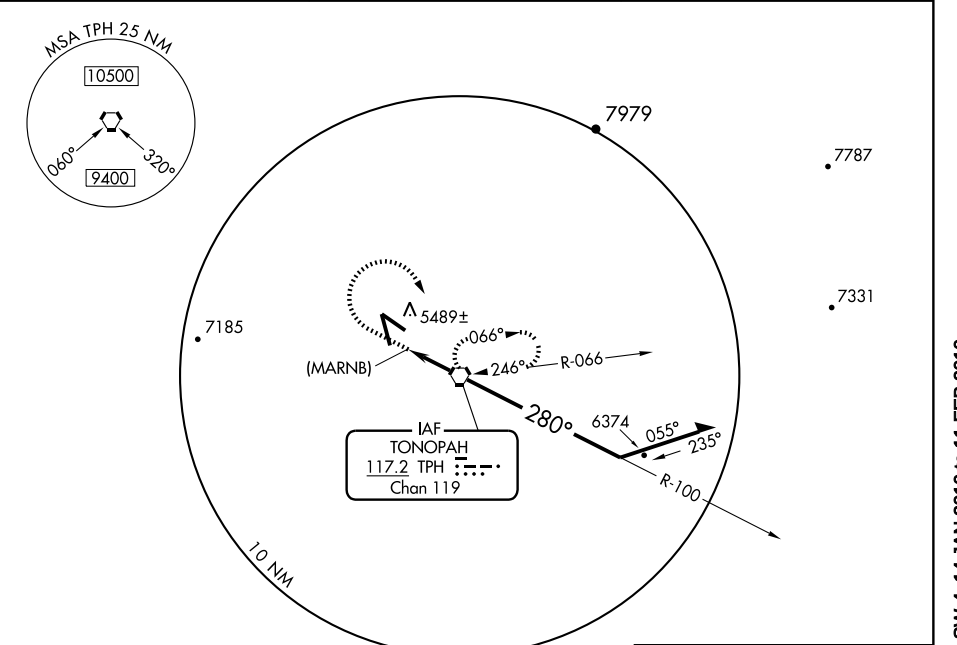
CATEGORY	A	B	C	D
S-15	5820-1 390 (400-1)			5820-1 ¼ 390 (400-1 ¼)
CIRCLING	5820-1 390 (400-1)	5880-1 450 (500-1)	5880-1 ½ 450 (500-1 ½)	6040-2 610 (700-2)



▼
▲

MISSED APPROACH: Climb to 6400 then climbing right turn to 9000 direct TPH VORTAC and hold.

ASOS 118.875	SALT LAKE CITY CENTER 133.45 317.625	UNICOM 123.0 (CTAF) 0
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WAAS CH 62902 W14A	APP CRS 144°	Rwy Idg TDZE Apt Elev	7000 4304 4308
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RNAV (GPS) RWY 14

WINNEMUCCA MUNI (WMC)

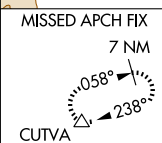
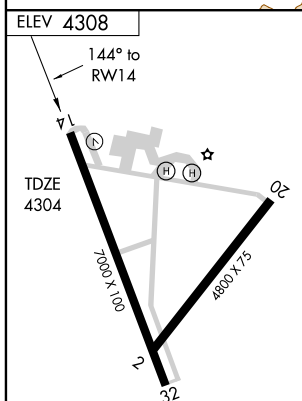
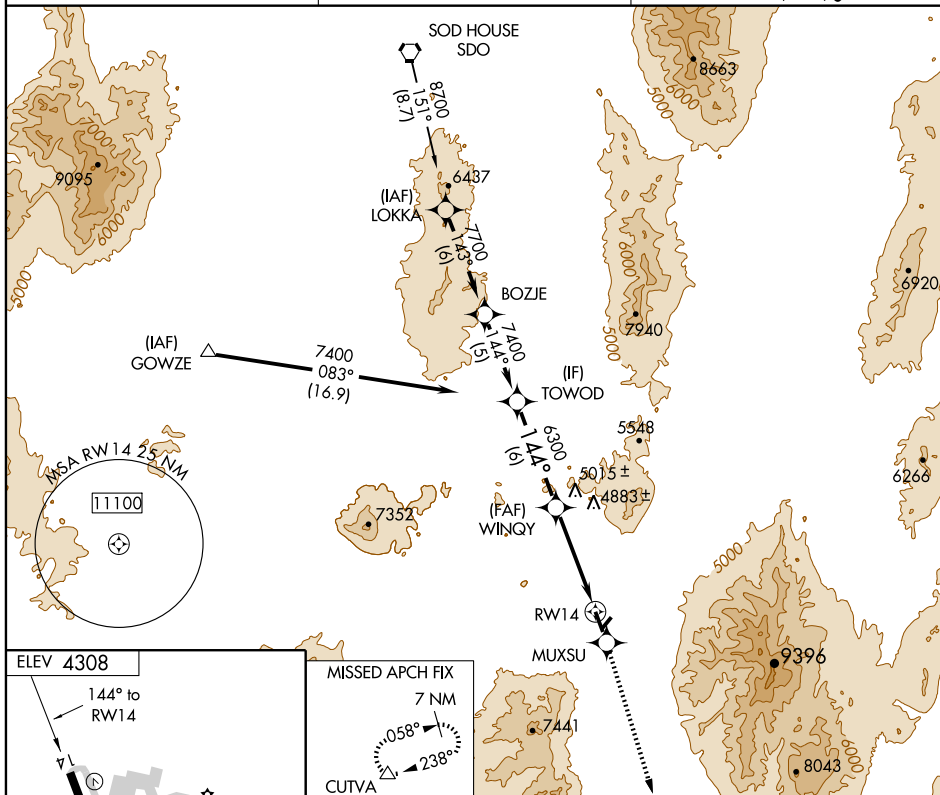
⚠ If local altimeter setting not received, use Battle Mountain altimeter setting and increase all DAs/MDAs 140 feet.
DME/DME RNP-0.3 NA.
VDP NA when using Battle Mountain altimeter setting.

MISSED APPROACH: Climb to 12000 direct MUXSU and via 147° track to CUTVA and hold, continue climb-in-hold to 12000.

ASOS
120.175

SALT LAKE CITY CENTER
132.25 380.05

UNICOM
122.8 (CTAF) 0



Procedure Turn NA	TOWOD		WINQY		12000 ↑		MUXSU ✧		147° track		CUTVA △	
	7400		6300		* 2.4 NM to RW14		* LNAV only		RW14			
	GS 3.00° TCH 40		6 NM		3.7 NM		2.4 NM					
	CATEGORY		A		B		C		D			
	LPV DA				4843-2		539 (600-2)					
LNAV MDA		5100-1 796 (800-1)		5100-1¼ 796 (800-1¼)		5100-2¼ 796 (800-2¼)		5100-2½ 796 (800-2½)				
CIRCLING		5100-2		792 (800-2)		5100-2¼ 792 (800-2¼)		5100-2½ 792 (800-2½)				

MIRL Rwy 2-20
MIRL Rwy 14-32

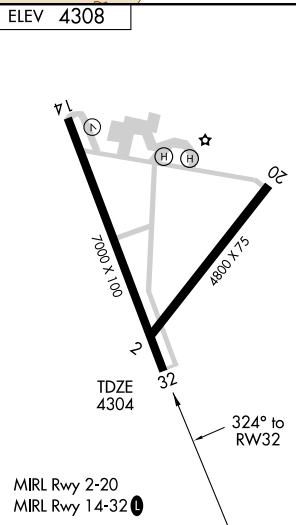
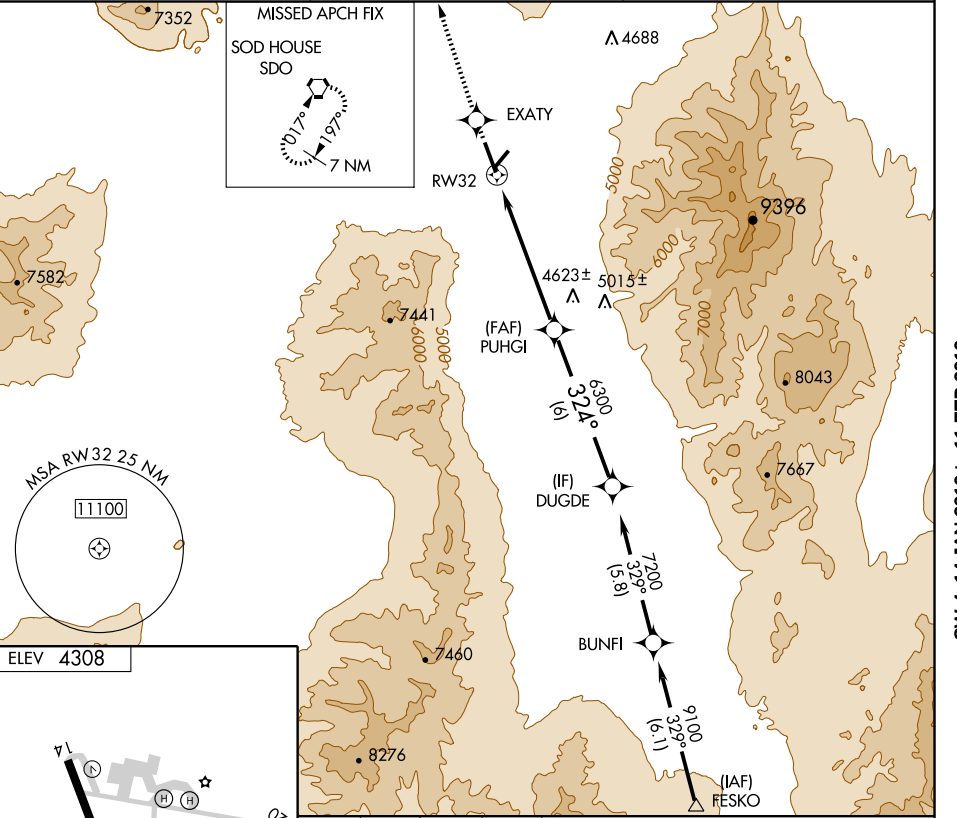
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If local altimeter setting not received, use Battle Mountain altimeter setting and increase all DAs/MDAs 140 feet.
DME/DME RNP-0.3 NA.
VDP NA when using Battle Mountain altimeter setting.

MISSED APPROACH: Climb to 10000 direct EXATY and via 326° track to SDO VORTAC and hold.

ASOS 120.175	SALT LAKE CITY CENTER 132.25 380.05	UNICOM 122.8 (CTAF) 0
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10000	EXATY	326° track	SDO	DUGDE	Procedure Turn NA
*LNAV only	*1.7 NM to RW32			7200	GS 3.00° TCH 45
	1.7 NM	4.3 NM	6 NM		
CATEGORY	A	B	C	D	
LPV DA	4554-3/4		250 (300-3/4)		
LNAV MDA	4880-1	576 (600-1)	4880-1 1/2 576 (600-1 1/2)	4880-1 3/4 576 (600-1 3/4)	
CIRCLING	4880-1	572 (600-1)	4880-1 1/2 572 (600-1 1/2)	4880-2 572 (600-2)	

SW-4, 14 JAN 2010 to 11 FEB 2010

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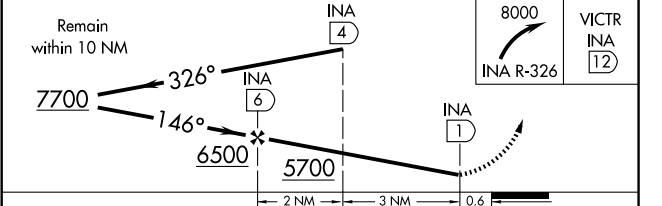
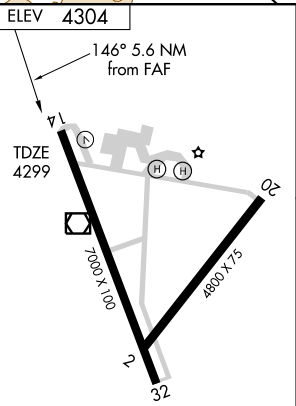
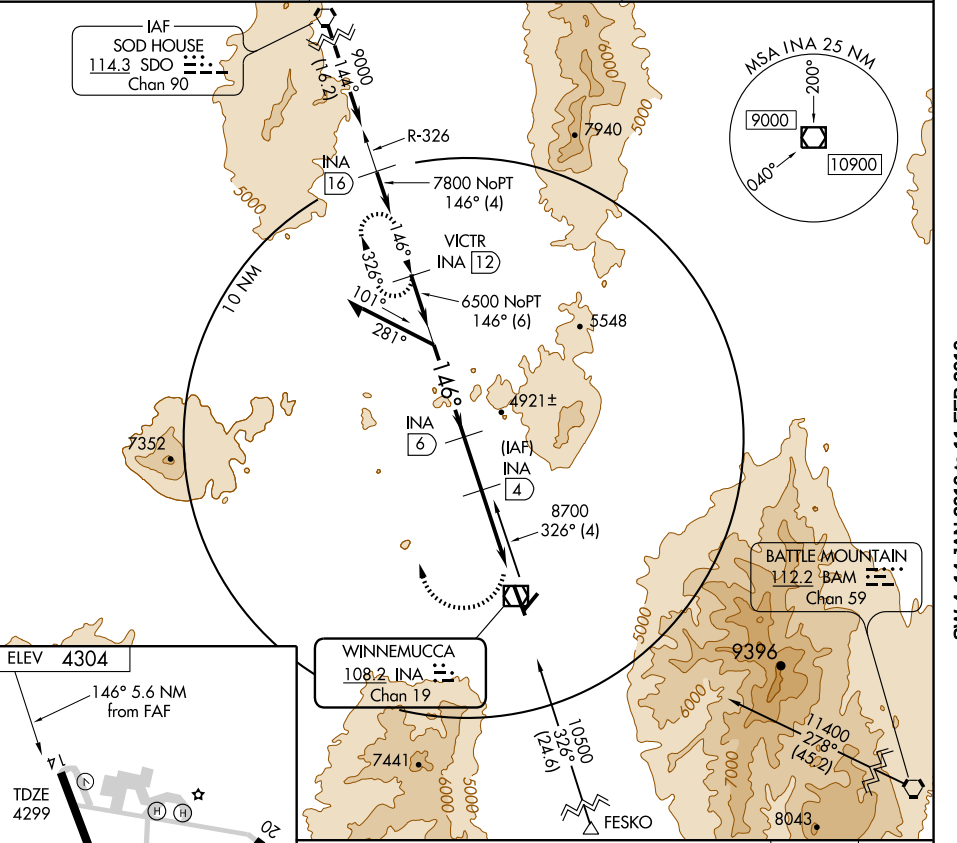
ACTIVATE MIRL Rwy 14-32-CTAF.

MISSED APPROACH: Climbing right turn to 8000 via INA R-326 to VICTR DME Fix and hold.

ASOS
120.175

SALT LAKE CITY CENTER
132.25 380.05

UNICOM
122.8 (CTAF) 0



CATEGORY		A	B	C	D
S-14		4620-1	321 (400-1)	4840-1½ 541 (600-1½)	5560-3 1261 (1300-3)
CIRCLING		4700-1 397 (400-1)	4760-1 457 (500-1)	4840-1½ 537 (600-1½)	5560-3 1257 (1300-3)

Knots	60	90	120	150	180
Min:Sec					

SW-4, 14 JAN 2010 to 11 FEB 2010

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD

INTL RNAV (GPS) Rwy 16¹²
 RNAV (GPS) Rwy 34³⁴
 VOR/DME Rwy 34¹⁵

¹NA when local weather not available.²Categories A, B, 1200-2; Categories C, D, 1200-3.³NA when control tower closed.⁴Categories A, B, 1100-2; Categories C, D, 1100-3.⁵Categories A, B, 2200-2; Categories C, D, 2200-3.**CARSON CITY, UT**

CARSON RNAV (GPS)-A
 Categories A, B, 1700-2; Category C, 1700-3;
 Category D, 1800-3.

NA when local weather not available.

CEDAR CITY, UT

CEDAR CITY RGNL ILS Rwy 20
 VOR Rwy 20

Category D, 900-2¾.

DOUGLAS BISBEE, AZ

BISBEE DOUGLAS

INTL VOR/DME or GPS Rwy 17
 VOR Rwy 17

NA when control zone not in effect.

ELKO, NV

ELKO RGNL LDA/DME RWY 23¹
 RNAV (GPS) Rwy 23²
 VOR-A³
 VOR/DME-B⁴

¹Categories A,B, 900-2; Category C 1000-3; Category D, 1100-3.²Categories A,B, 1400-2; Categories C,D, 1400-3.³Categories A,B, 1500-2; Categories C,D, 1500-3.⁴Categories A,B, 1200-2; Categories C,D, 1200-3.

NAME ALTERNATE MINIMUMS

FLAGSTAFF, AZ

FLAGSTAFF

PULLIAM ILS or LOC/DME Rwy 21¹²
 VOR or GPS-A³

¹NA when control tower closed.²ILS, Categories B,C,D, 700-2.³Category D, 800-2¾.**FORT HUACHUCA-SIERRA VISTA, AZ**

SIERRA VISTA MUNI-

LIBBY AAF ILS or LOC Rwy 26
 NDB Rwy 26
 RNAV (GPS) Rwy 8¹
 VOR Rwy 26

NA when control tower closed.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.**GLENDALE, AZ**

GLENDALE MUNI RNAV (GPS) Rwy 1
 NA when local weather not available.

GRAND CANYON, AZ

GRAND CANYON NATIONAL
 PARK ILS or LOC/DME Rwy 3
 NA when control tower closed.
 Category D, 700-2.

VALLE VOR/DME Rwy 19

NA except for operators with approved weather reporting service.

KANAB, UT

KANAB MUNI RNAV (GPS) Rwy 1
 Category B, 1100-2; Category C, 1400-3.

KINGMAN, AZ

KINGMAN RNAV (GPS) Rwy 3
 RNAV (GPS) Y Rwy 21
 VOR/DME Rwy 21

Category D, 800-2¾.

NAME ALTERNATE MINIMUMS
LAKE HAVASU CITY, AZ
LAKE HAVASU CITY **VOR/DME or GPS-A**
Categories A,B, 1000-2; Categories C,
1000-2½; Category D, 1000-3.

LAS VEGAS, NV
HENDERSON EXECUTIVE **RNAV (GPS)-B¹
VOR-C²**

NA when local weather not available.
¹Categories A,B, 1000-2; Category C,
1000-2½.
²Categories A, B, 2400-2; Category C, 2400-3.

MC CARRAN INTL **ILS or LOC Rwy 25L¹
ILS or LOC Rwy 25R¹
ILS or LOC/DME Rwy 1L²
RNAV (GPS) Rwy 1R³
RNAV (GPS) Rwy 19L^{4S}
RNAV (GPS) Rwy 19R^{4S}
VOR/DME -A²
VOR Rwy 25L/R³**

¹ILS, LOC, Categories A,B, 900-2; Category C,
900-2½, Category D, 900-2¾, Category E,
1400-3.

²ILS, LOC, Categories A,B, 900-2; Category C,
900-2½.

³Categories A,B, 900-2; Category C, 900-2½,
Category D, 900-2¾.

⁴Categories A,B, 900-2; Category C, 900-2¾;
Category D, 900-3.

⁵NA when local weather not available.

NORTH LAS VEGAS **ILS or LOC Rwy 12L**
NA when control tower closed.

LOVELOCK, NV
DERBY FIELD **VOR or GPS-C¹
VOR/DME or GPS-A²**

¹Categories A,B, 1900-2; Categories C,D,
1900-3.
²Categories A,B, 900-2; Category C, 900-2¾;
Category D, 900-3.

MILFORD, UT
MILFORD MUNI/BEN AND JUDY
BRISCOE FIELD **VOR or GPS-A**
Category D, 800-2½.

OGDEN, UT
OGDEN-HINCKLEY **ILS Or LOC Rwy 3¹²
RNAV (GPS) Y Rwy 3
RNAV (GPS) Z Rwy 3**

NA when local weather not available.
¹ILS, Category D, 700-2.
²NA when control tower closed.

NAME ALTERNATE MINIMUMS
PHOENIX, AZ
PHOENIX DEER VALLEY **RNAV (GPS)-B¹²
RNAV (GPS)-C³
RNAV (GPS) Rwy 7R⁴
RNAV (GPS) Rwy 25L¹⁴**

¹NA when local weather not available.

²Categories A,B, 1000-2; Category C,
1000-2¾.

³Categories A,B, 1000-2; Category C,
1000-2¾; Category D, 1100-3.

⁴Categories A,B, 1000-2; Category C,
1000-2¾; Category D, 1000-3.

PHOENIX-
MESAGATEWAY **ILS or LOC Rwy 30C¹²
RNAV (GPS) Rwy 30C¹
RNAV (GPS) Rwy 30L³
VOR or TACAN Rwy 30C¹**

¹NA when local weather not available.

²NA when control tower closed.

³Category E, 800-2½.

PHOENIX
SKY HARBOR INTL **ILS or LOC Rwy 7R¹
ILS or LOC Rwy 7L²
ILS or LOC Rwy 8³
ILS or LOC Rwy 25L²
ILS or LOC Rwy 26²
RNAV (GPS) Y Rwy 7R²
RNAV (GPS) Y Rwy 7L²
RNAV (GPS) Y Rwy 8⁴
RNAV (GPS) Y Rwy 25L²
RNAV (GPS) Y Rwy 25R²
RNAV (GPS) Y Rwy 26²**

¹ILS, Categories A,B,C, 700-2; Category D,
800-2½. LOC, Category D, 800-2½.

²Category D, 800-2½.

³ILS, Categories A,B, 800-2; Category C, 800-
2½; Category D, 800-2½. LOC, Category C,
800-2¾; Category D, 800-2½.

⁴Category C, 800-2½; Category D, 800-2½.

PRESCOTT, AZ
ERNEST A. LOVE FIELD .. **ILS/DME Rwy 21L¹²
RNAV (GPS) Rwy 21L⁴
VOR Rwy 12³**

¹NA when control tower closed.

²ILS, Category C, 700-2; Category D, 900-3.
LOC, Category D, 900-3.

³Category D, 900-3.

⁴Category D, 1000-3.

NAME PRICE, UT
CARBON COUNTY RGNL/
BUCK DAVIS FIELD **VOR/DME Rwy 36**
VOR Rwy 36¹

Category C, 900-2½; Category D, 1100-3.

¹Categories A, B, 2000-2; Categories C, D, 2000-3.

PROVO, UT

PROVO MUNI .. **ILS or LOC/DME Rwy 13**, 700-2
Na when control tower closed.

RENO, NV

RENO/TAHOE INTL **ILS Rwy 16R**, 2100-7¹
ILS or LOC/DME Rwy 34L²
LOC Rwy 16R³
LOC/DME BC Rwy 34L⁴
RNAV (GPS) X Rwy 34L⁵
RNAV (GPS) X Rwy 34R⁵
RNAV (GPS) Y Rwy 16L⁶
RNAV (GPS) Y Rwy 16R⁷
RNAV (GPS) Y Rwy 34L⁴
RNAV (GPS) Y Rwy 34R⁸
RNAV (RNP) Z Rwy 16R, 800-2½
VOR-D, 1600-3

¹LOC, NA.

²ILS, LOC, Categories A,B, 1000-2; Category C, 1000-2½.

³Categories A,B, 1600-2; Categories C,D, 1600-3; Category E, 2400-3.

⁴Categories A,B, 1000-2; Categories C,D, 1000-3.

⁵Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

⁶Categories A,B, 1400-2; Categories C,D, 1400-3.

⁷Categories A,B, 1800-2; Categories C,D, 1800-3.

⁸Categories A,B, 1000-2; Category C, 1000-2½.

ST. GEORGE, UT

ST. GEORGE MUNI **RNAV (GPS) Rwy 34¹**
VOR or GPS-B, 1300-2²
VOR-C, 1800-3²
VOR/DME Rwy 34²³

¹Categories A,B 1100-2½; Categories C,D, 1100-3.

²NA except for operators with approved weather reporting service.

³Category C, 800-2½; Category D, 1000-3.

ST. JOHNS, AZ

ST. JOHNS
INDUSTRIAL AIRPARK **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.

NAME SCOTTSDALE, AZ
SCOTTSDALE **RNAV (GPS)-D¹**
RNAV (GPS)-E¹
VOR or GPS-A²³
VOR or GPS-C²⁴

¹NA when local weather not available.

²NA when Scottsdale altimeter not available.

³Categories A,B,C, 1100-3.

⁴Categories A,B, 900-2½; Category C, 900-2¾.

TONOPAH, NV

TONOPAH **VOR or GPS-A**
Category D, 800-2¾.

TOOELE, UT

BOLINDER FIELD-
TOOELE VALLEY **ILS or LOC/DME Rwy 17¹**
RNAV (GPS) Rwy 17
NA when local weather not available.
¹ILS, Category D, 700-2.

TUCSON, AZ

TUCSON INTL **ILS or LOC Rwy 11L¹**
LOC/DME BC Rwy 29R²
RNAV (GPS) Z Rwy 11L²
RNAV (GPS) Rwy 29R²
RNAV (GPS) Rwy 3³
RNAV (GPS) Rwy 29L⁴
RNAV (GPS) Z Rwy 29R²
VOR or TACAN Rwy 11L²
VOR/DME or TACAN Rwy 29R²

¹ILS, LOC, Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3; Category E, 1100-3.

²Category E, 1100-3.

³Categories A,B,C,D, 800-2¾.

⁴Category D, 800-2¾.

WENDOVER, UT

WENDOVER **VOR/DME-B¹**
VOR/DME or TACAN Rwy 26²
¹Categories A,B, 1700-2; Categories C,D,E, 1700-3.
²Category E, 800-2¾.

WINNEMUCCA, NV

WINNEMUCCA MUNI **RNAV (GPS) Rwy 14¹²**
RNAV (GPS) Rwy 32¹
VOR/DME Rwy 14³

¹NA when local weather not available.

²Category C, 800-2¾; Category D, 800-2½.

³Category D, 1300-3.

WINDOW ROCK, AZ

WINDOW ROCK **VOR/DME-A**
Categories A,B, 1100-2; Categories C,D, 1100-3.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min climb of 282' per NM to 7300 or 4700-3 for climb in visual conditions. **Rwy 12**, std. w/ a min climb of 386' per NM to 7600 or 4700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8200 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 12**, climb heading 122° and BAM R-076 to 10000 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 21**, climb direct BAM VORTAC and BAM R-205 to 10100 before proceeding on course. **Rwy 30**, climb heading 302° and BAM R-324 to 9100 before proceeding on course.

BEAVER, UT

BEAVER MUNI

TAKE-OFF MINIMUMS: **Rwys 7, 25**, NA-obstacles.

Rwys 13, 31, 2600-234 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb in visual conditions to cross Beaver Muni Airport Northwestbound at or above 8300 then climb to 10100 via MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210 KIAS until established on MLF VORTAC R-102.

NAME TAKE-OFF MINIMUMS

BLANDING, UT

BLANDING MUNI

TAKE-OFF MINIMUMS: **Rwy 35**, 800-1 or std. with a min. climb of 350 feet per NM to 6700.

DEPARTURE PROCEDURE: **Rwy 17**, turn left. **Rwy 35**, turn right climb to 9000 via heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

BRIGHAM CITY, UT

BRIGHAM CITY (BMC)

AMDT 5 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, std. w/ min. climb of 325' per NM to 5300 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn heading 205° and OGD R-331 to OGD VORTAC. **Rwy 34**, climbing left turn heading 205° and OGD R-331 to OGD VORTAC or for climb in visual conditions: cross Brigham City airport southbound at or above 9200 then via OGD R-351 to OGD VORTAC.

NOTE: **Rwy 16**, poles 266' from DER, 558' right of centerline, 30' AGL/4258' MSL.



BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)

AMDT 1 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 370' per NM to 1800, or 1700-3 for climb in visual conditions. **Rwy 34**, std. w/ a min. climb of 495' per NM to 5500, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 164° and EED VORTAC R-334 to EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **Rwy 34**, climb via heading 344° to 1600, then climbing right turn direct EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **All**

Aircraft climb in EED VORTAC holding pattern (East, right turn, 257° inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 16**, multiple bushes beginning 3600' from DER, left of centerline, up to 12' AGL/1029' MSL.

Rwy 34, multiple poles beginning 2211' from DER, right of centerline, up to 105' AGL/821' MSL.

CARSON CITY, NV

CARSON (CXP)

ORIG 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 9**, use JIMPA DEPARTURE.

CASA GRANDE, AZ

CASA GRANDE MUNI

DEPARTURE PROCEDURE: **Rwy 5**, right turn. **Rwy 23**, climb direct TFD VORTAC. Continue climb in holding pattern (SW, right turn, 048° inbound) to MEA for direction of flight.

CEDAR CITY, UT

CEDAR CITY RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 3500-3 or std. with a min. climb of 450' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 20, 26**, turn right. **Rwys 2, 8**, turn left, climb direct to CDC VOR/DME, continue climb to 9000 via R-348. Northbound continue on course. All others reverse course, climb to cross CDC VOR/DME at or above MCA for direction of flight.

CHANDLER, AZ

CHANDLER MUNI

DEPARTURE PROCEDURE: **Rwy 4R**, climbing left turn heading 220°. **Rwys 22L, 22R**, climbing left turn heading 190°. **All Aircraft**, continue climb via TFD R-350 to TFD VORTAC.

NOTE: **Rwy 4L**, multiple towers and buildings beginning 69' from departure end of runway, 397' left of centerline, up to 80' AGL/1319' MSL.

CHANDLER, AZ (CON'T)

STELLAR AIRPARK

DEPARTURE PROCEDURE: **Rwy 17**, turn left, climb via heading 150°. **Rwy 35**, turn right. **All aircraft** climb via TFD R-350 direct TFD VORTAC.

NOTE: **Rwy 17**, tower and signs beginning 574' from departure end of runway, 183' right of centerline, up to 50' AGL/1124' MSL. Sign 611' from departure end of runway, 365' left of centerline, 42' AGL/1214' MSL.

COLORADO CITY, AZ

COLORADO CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwys 20, 29, turn left. **All aircraft** climb to 7400 via the 160° bearing from AZC NDB then continue climb on course.

COOLIDGE, AZ

COOLIDGE MUNI

DEPARTURE PROCEDURE: **Rwys 5, 35**, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course. **Rwy 17**, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course. **Rwy 23**, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

DAVIS-MONTHAN AFB (KDMA)

TUCSON, AZ.07186

Diverse departures not authorized, use published departure procedure for obstacle avoidance.

TAKE-OFF OBSTACLES: **Rwy 12**: Terrain 0' AGL/2707' MSL, 81' from DER, 500' left of centerline. Terrain 0' AGL/2707' MSL, 46' from DER, 512' left of centerline. Terrain 0' AGL/2707' MSL, 16' from DER, 500' left of centerline. Terrain 0' AGL/2706' MSL, 0' from DER, 200' left of centerline. **Rwy 30**: Terrain 0' AGL/2592' MSL, 0' from DER, 106' left of centerline. Terrain 0' AGL/2592' MSL, 7' from DER, 97' left of centerline. Terrain 0' AGL/2592' MSL, 0' from DER, 484' right of centerline. Terrain 0' AGL/2592' MSL, 13' from DER, 493' right of centerline. Vehicle 11' AGL/2615' MSL, 1017' from DER, 477' left of centerline. Terrain 0' AGL/2612' MSL, 237' from DER, 590' left of centerline.

DELTA, UT

DELTA MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 412' per NM to 6600, or 1800-3 for climb in visual conditions. Climb in visual conditions NA at night. **Rwy 12**, NA-terrain. **Rwy 30**, NA-airspace.

DEPARTURE PROCEDURE: **Rwy 17**, climb via DTA VORTAC R-347 to DTA VORTAC, or climb in visual conditions to cross departure end of runway southbound at or above 6400, then via DTA VORTAC R-347 to DTA VORTAC, thence...**Rwy 35**, climb via heading 346° to 5800, then climbing left turn via heading 180° and DTA VORTAC R-310 to DTA VORTAC, thence...
...climb in holding pattern (hold south, left turn, 004° inbound) to cross DTA VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 17**, trees 1598' from departure end of runway, 62' right of centerline, 60' AGL/4799' MSL.

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL

DEPARTURE PROCEDURE: Climb to 5700 in holding pattern, right turn to 140 inbound DUG VORTAC, then assigned route. CAT C,D turbojets climb not to exceed 250 kts. to 8000.

DUCHESNE, UT

DUCHESNE MUNI

DEPARTURE PROCEDURE: Climb direct to MTU VORTAC to depart at or above 7200 eastbound or 10000 westbound.

ELKO, NV

ELKO RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. with a min. climb of 330' per NM to 8000. **Rwy 23**, 2500-3 or std. with a min. climb of 340' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 6000, then climbing right turn direct BQU VOR/DME, then...

Rwy 23, (V32 Southwest) climb to 6000, then climbing left turn heading 200° to intercept BQU R-241 (V32).

Rwy 23, all others climb runway heading to 6000, then climbing left turn direct BQU VOR/DME, then... climb in BQU VOR/DME holding pattern (S, left turns, 340° inbound) to cross BQU VOR/DME at the MEA/MCA/MOCA for direction of flight.

ELY, NV

ELY AIRPORT-YELLAND FIELD

TAKE-OFF MINIMUMS: **Rwys 30,36**, 3000-2 or std. with a min. climb of 700' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 12,30,36**, right turn; **Rwy 18**, straight ahead; intercept. ELY VOR/DME R-150 to 10000. Aircraft departing on V293 southeast climb on course to MEA. Departures V269 or V293 northbound, reverse course to the left, continue climb to cross ELY VOR/DME at or above 12000.

FALLON, NV

FALLON MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 350' per NM to 4300.

DEPARTURE PROCEDURE: **Rwy 21**, turn right.

Rwys 3,13,31, turn left. All departures climb via HZN R-075 to HZN VORTAC. Climb in holding pattern (W, right turns, 075° inbound) to depart HZN VORTAC at or above: R-240 CWR-149, 8000; R-150 CWR-239, 9000. Continue climb on course to MEA or assigned altitude.

FALLON NAS (KNFL)

FALLON, NV

Diverse departures not authorized.

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. Aircraft departing FLG R-160 CWR-175 climb on course. All others climb southbound on FLG R-172 to 9000, then climbing left turn direct FLG VOR/DME.

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF

TAKE-OFF MINIMUMS: **Rwy 21**, NA.

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

Rwys 26,30, turn right. All aircraft climb to 9500 to TOMBS Int via FHU VOR R-019 or 018° bearing from DAO NDB.

GLENDALE, AZ

GLENDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 19**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 1**, Use DRAKE (RNAV) DEPARTURE.

GLOBE, AZ

SAN CARLOS APACHE (P13)

ADMT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR

TAKE-OFF MINIMUMS: **Rwy 3**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 21**, Use POTER DEPARTURE.

GRAND CANYON, AZ

GRAND CANYON NATIONAL PARK

TAKE-OFF MINIMUMS: **Rwy 3**, NA-environmental.

DEPARTURE PROCEDURE: **Rwy 21**, use GRAND DEPARTURE.

HEBER CITY, UT

HEBER CITY MUNI-RUSS MCDONALD FIELD

DEPARTURE PROCEDURE: **Rwy 3**, Use COOLI RNAV DEPARTURE.

HILL AFB (KHIF)

OGDEN, UT

Diverse departures not authorized, use radar vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT

HUNTINGTON MUNI (69V)

AMDT 2A 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18,26,36**, NA. **Rwy 30**, 1700-3 or std. with a min. climb of 300' per NM to 8100.

DEPARTURE PROCEDURE: **Rwys 8,12**, climbing left turn direct PUC VOR/DME...

Rwy 30, climbing right turn direct PUC VOR/DME.... continue climb in PUC VOR/DME holding pattern (hold S, right turns, 009° inbound) to MEA for direction of flight.

NOTE: **Rwy 8**, tree 2663' from DER, 922' left of centerline, 40° AGL/5979' MSL. **Rwy 12**, tree 333' from DER, 132' right of centerline, 40° AGL/5919' MSL.

Rwy 30, tree 2065' from DER, 875' left of centerline, 40° AGL/5999' MSL.

KANAB, UT**KANAB MUNI**

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 316' per NM to 7200.

NOTE: Use KACIR ONE RNAV DEPARTURE.

KINGMAN, AZ**KINGMAN**

TAKE-OFF MINIMUMS: **Rwys 3, 17, 21, 35**, 800-1 or std. with a min. climb of 210' per NM to 7000.

DEPARTURE PROCEDURE: Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. If unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).

LAGUNA AAF (LGF)**YUMA PROVING GROUND, AZ (03247)**

Rwy 6, 18, 36 turn right, climb to 3600 direct BZA VORTAC.

Rwy 24 climb to 3600 direct to BZA VORTAC.

TAKE-OFF OBSTACLES:

Rwy 18: 386' (6' AGL) windsock, 818' from departure end of rwy, 194' left of centerline.

LAKE HAVASU CITY, AZ**LAKE HAVASU CITY**

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1½ or std. w/ min. climb of 278' per NM to 1200. **Rwy 32**, 600-1½ or std. w/ min. climb of 492' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight. **Rwy 32**, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 14**, obstruction light on transmission tower, 1.2 NM from departure end of runway, 1885' left of centerline, 151' AGL/1027' MSL. Transmission tower 1.4 NM from departure end of runway, 1953' left of centerline, 145' AGL/1058' MSL. Bush 1080' from departure end of runway, 500' left of centerline, 31' AGL/825' MSL. Terrain 145' from departure end of runway, 347' left of centerline, 14' AGL/797' MSL. Bush 1256' from departure end of runway, 255' left of centerline, 35' AGL/818' MSL. **Rwy 32**, obstruction light on transmission tower 4052' from departure end of runway, 932' right of centerline, 180' AGL/974' MSL. Transmission tower 2504' from departure end of runway, 1009' right of centerline, 112' AGL/903' MSL.

LAS VEGAS, NV**HENDERSON EXECUTIVE**

TAKE-OFF MINIMUMS: **Rwy 17L/R**, Cat A/B std. with a min. climb of 491' per NM to 6000, or 2100-3 for climb in visual conditions, Cat C/D NA. **Rwy 35L/R**, Cat A/B std. with a min. climb of 312' per NM to 4700, or 2100-3 for climb in visual conditions, Cat C/D NA.

DEPARTURE PROCEDURE: **Rwy 17L/R**, climbing right turn via LAS R-157 to LAS VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC. **Rwy 35L/R**, climbing right turn via BLD R-257 to BLD VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC.

NOTE: **Rwy 17L**, tree 5610' from departure end of runway, 82' left of centerline, 100' AGL/2739' MSL. Tree 1.9 miles from departure end of runway, 1495' left of centerline, 100' AGL/2859' MSL. **Rwy 17R**, tree 4041' from departure end of runway, 859' left of centerline, 100' AGL/2739' MSL.

MCCARRAN INTL (KLAS)

TAKE-OFF MINIMUMS: **Rwy 25R**, 200-1 or std. with a min. climb of 220' per NM to 2400.

DEPARTURE PROCEDURE: **Rwys 1L, 1R**, climbing right turn direct BLD VORTAC. **Rwys 7L, 7R**, climb via heading 075° to 3400 then climbing right turn direct BLD VORTAC. **Rwys 19L, 19R**, climbing left turn via heading 120° and BLD VORTAC R-257 to BLD VORTAC. **Rwys 25L, 25R**, climb via heading 255° to 2700 then climbing right turn direct BLD VORTAC.

NOTE: **Rwy 1L**, multiple poles, tree, and building 450' from departure end of runway, 283' left of centerline, up to 174' AGL/2132' MSL. Obstruction light on WSK 248' from departure end of runway, 224' right of centerline, 15' AGL/2104' MSL. **Rwy 1R**, multiple sign and building 1331' from departure end of runway, 448' right of centerline, up to 100' AGL/2120' MSL. **Rwy 7L**, multiple poles and trees 747' from departure end of runway, 442' right of centerline, up to 62' AGL/2062' MSL. Tree 1257' from departure end of runway, 789' left of centerline, 65' AGL/2077' MSL. **Rwy 7R**, lighted WSK 126' from departure end of runway, 290' right of centerline, 25' AGL/2051' MSL. **Rwy 19L**, multiple poles, sign and building 1394' from departure end of runway, 320' right of centerline, up to 51' AGL/2256' MSL. **Rwy 19R**, multiple poles, sign, and building 197' from departure end of runway, 125' right of centerline, up to 51' AGL/2256' MSL. Multiple pole and building 1396' from departure end of runway, 356' left of centerline, up to 47' AGL/2262' MSL. **Rwy 25L**, multiple poles, sign, and building 1003' from departure end of runway, 251' left of centerline, up to 63' AGL/2256' MSL. **Rwy 25R**, multiple poles and road 675' from departure end of runway, 17' right of centerline, up to 100' AGL/2301' MSL. Multiple poles and buildings 533' from departure end of runway, 1' left of centerline, up to 150' AGL/2469' MSL.

NORTH LAS VEGAS (VGT)**AMDT 3 08045 (FAA)**

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.

LOGAN, UT

LOGAN-CACHE (LGU)

AMDT 8 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10,28**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwys 17, 35**, use ORNEY DEPARTURE.

LOVELOCK, NV

DERBY FIELD (LOL)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 2300-2 or std. with a min. climb of 300' per NM to 6200. **Rwy 7**, 1100-1 or std. with a min. climb of 250' per NM to 5000. **Rwys 19, 25**, 2300-2 or std. with a min. climb of 260' per NM to 6200.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

Rwys 7,19,25, turn left, climb direct LLC VORTAC. Aircraft departing 330° CW 359° climb via LLC R-333 to ROBUD INT; 360° CW 089° climb in LLC VORTAC holding pattern (hold NW, left turns, 153° inbound) to depart LLC VORTAC at or above 8600; 090° CW 219° climb on course; 220° CW 329° climb in LLC VORTAC holding pattern to depart LLC VORTAC at or above 8600. Continue climb on course to MEA or assigned altitude.

LUKE AFB (KLUF)

GLENDAL, AZ AMDT 3, 09183

Diverse departures not authorized.

Use published DP, if unable to comply with DP notify clearance delivery and request RADAR Vectors.

TAKE-OFF OBSTACLES:

RWY 3L: Taxiing aircraft, 19' AGL/1126' MSL, 1221' from DER, 782' left of centerline. Taxiing aircraft, 19' AGL/1126' MSL, 1407' from DER, 609' left of centerline. Weather equipment, 15' AGL/1117' MSL, 759' from DER, 505' right of centerline. Weather equipment, 15' AGL/1117' MSL, 1209' from DER, 505' right of centerline. Building, 20' AGL/1127' MSL, 1620' from DER, 925' left of centerline.

RWY 21L: Taxiing aircraft, 38' AGL/1120' MSL, 1428' from DER, 774' left of centerline.

MESA, AZ

FALCON FIELD

TAKE-OFF MINIMUMS: **Rwys 4L,4R**, std. with a min. climb of 459' per NM to 3600, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4L, 4R**, climbing left turn to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound. For climb in visual conditions cross FFZ NDB at or above 2300 then proceed via 220° bearing to PXR R-143 southeast bound. **Rwy 22L, 22R**, climb to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound.

NOTE: **Rwy 4L**, light standard 416' from departure end of runway, 415' left of centerline, 48' AGL/1428' MSL. Obstacle light on building 1313' from departure end of runway, 424' left of centerline, 54' AGL/1434' MSL. **Rwy 4R**, light standard 514' from departure end of runway, 565' right of centerline, 48' AGL/1441' MSL. Tree 1097' from departure end of runway, 650' right of centerline, 50' AGL/1448' MSL. Tree 1060' from departure end of runway, 359' right of centerline, 50' AGL/1451' MSL. **Rwy 22L**, light pole 254' from departure end of runway, 538' right of centerline, 13' AGL/1382' MSL. Windmill 691' from departure end of runway, 528' right of centerline, 30' AGL/1389' MSL. Windmill 715' from departure end of runway, 603' right of centerline, 30' AGL/1389' MSL. Light pole 68' from departure end of runway, 764' right of centerline, 13' AGL/1382' MSL. Tree 175' from departure end of runway, 826' right of centerline, 13' AGL/1383' MSL. **Rwy 22R**, light pole 296' from departure end of runway, 541' right of centerline 13' AGL/1400' MSL. Light pole 495' from departure end of runway, 187' right of centerline, 13' AGL/1382' MSL. Light pole 594' from departure end of runway, 65' right of centerline, 13' AGL/1382' MSL.

MESQUITE, NV

MESQUITE

TAKE-OFF MINIMUMS: **Rwy 1**, 900-3, or std. with a min. climb of 620' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn, **Rwy 19**, climbing right turn. **All aircraft** climb direct MMM VORTAC. Aircraft departing MMM R-149 CW R-220 climb on course. All others continue climb via MMM R-196 to 6100 and reverse course to cross MMM VORTAC at or above: R-221 CW R-270 and R-331 CW R-060, 6100; R-271 CW R-330, 7300; R-061 CW R-150, 8300.

MICHAEL AAF (KDPG),

DUGWAY PROVING GROUND, UT

.....Amdt 1, 09099
Rwy 12, 4700-3*

* Or standard with minimum climb of 305 ft/NM to 6100.

DEPARTURE PROCEDURES: **Rwy 12** Climb via heading 122° to 6100, then right turn direct DPG NDB. Continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course, or for climb in visual conditions: Cross Michael AAF, Dugway Proving Ground at or above 8900 before proceeding on course. **Rwy 30** Climb via heading 302° to 6100 then left turn direct DPG NDB, continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course.

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD

TAKE-OFF MINIMUMS: **Rwy 34**, CAT A,B 1200-2 or std. with a min. climb of 360' per NM to 6500. CAT C,D NA.
DEPARTURE PROCEDURE: **Rwy 16**, climb direct MLF VORTAC. **Rwy 34**, climbing left turn direct MLF VORTAC. Aircraft departing MLF R-170 CW R-210 climb on course. All other aircraft continue climb southbound via MLF R-190 to 7600, then climbing right turn to cross MLF VORTAC at or above 9000, then climb on course.

MINDEN, NV

MINDEN-TAHOE

TAKE-OFF MINIMUMS: **Rwys 12,16,30**, NA. **Rwy 34**, 4000-3 or std. with a min. climb of 531' per NM to 8700.
DEPARTURE PROCEDURE: **Rwy 34**, use MINDEN RNAV DEPARTURE.

MOAB, UT

CANYONLANDS FIELD

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 320' per NM to 5800. **Rwy 21**, std. with a min. climb of 330' per NM to 5400.
DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwy 21**, turn right climb to 6700 via OAB R-293, then climbing right turn direct OAB VOR/DME. Climb in OAB holding pattern (NW, left turns, 113° inbound) to 10000 then proceed on course.
NOTE: **Rwy 3**, tree 4383' from departure end of runway, 1507' right of centerline, 50' AGL/4729' MSL. Road 1749' from departure end of runway, 905' left of centerline, 15' AGL/4635' MSL. Tree 3914' from departure end of runway, 1166' right of centerline, 50' AGL/4690' MSL. Tree 1.25 NM from departure end of runway, 400' right of centerline, 50' AGL/4758' MSL.
Rwy 21, pole 2026' from departure end of runway, 78' right of centerline, 80' AGL/4625' MSL. Pole 2061' from departure end of runway, 40' right of centerline, 80' AGL/4625' MSL. Pole 2095' from departure end of runway, 857' right of centerline, 80' AGL/4623' MSL. Pole 1980' from departure end of runway, 344' right of centerline, 80' AGL/4602' MSL.

NELLIS AFB (KLSV)

LAS VEGAS, NV

08241

Rwy 3L/R, 10,200-3° SR-SS

Rwy 21L/R, 10,200-3° SR-SS

Diverse departure not authorized.

MILITARY: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 300' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vector climb gradient, A/C must depart VFR.

* CIVIL: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 330' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vectors climb gradient, A/C may use published weather minimums or depart VFR.

TAKE-OFF OBSTACLES: **RWY 3L**: Terrain 0' AGL/1870' MSL, 0' inward of DER, 500' left of centerline. Road 15' AGL/1934' MSL, 1321' from DER, 802' left of centerline. **RWY 3R**: C-5 on taxiway 65' AGL/1936' MSL, 1345' from DER, 822' right of centerline. Road 15' AGL/2014' MSL, 3929' from DER, 1404' right of centerline. **RWY 21L**: Trees 90' AGL/1949' MSL, 4594' from DER, 1596' right of centerline. Trees 90' AGL/1949' MSL, 4940' from DER, 541' right of centerline. Trees 60' AGL/1899' MSL 929' from DER, 724' left of centerline. Trees 60' AGL/1899' MSL, 946' from DER, 626' left of centerline. Trees 60' AGL/1899' MSL, 2720' from DER, 341' left of centerline. Trees 60' AGL/1899' MSL, 2514' from DER, 403' left of centerline.

RWY 21R: Terrain 0' AGL/1835' MSL, 0' inward of DER, 500' right of centerline. Trees 90' AGL/1949' MSL, 4594' from DER, 597' right of centerline. Building 45' AGL/1904' MSL, 2274' from DER, 1037' right of centerline. Road 15' AGL/1874' MSL, 1404' from DER, 465' right of centerline.

NOGALES, AZ

NOGALES INTL (OLS)

AMDT 2 09351 (FAA)

TAKE-OFF MINIMUMS: Use NOGALES DEPARTURE.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,16**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwys 3, 21, 25, 34**, Use EMONT DEPARTURE.

PAGE, AZ

PAGE MUNI (PGA)

AMDT 2 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25, NA**—obstacles **Rwy 15**, 300-1 or std. w/ min. climb of 252' per NM to 6500, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climb via 157° heading to 6000, then climbing right turn to PGA VOR/DME. cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA, or climb in visual conditions: cross Page airport at or above 6100, before proceeding on course. **Rwy 33**, climb via 337° heading to 6000, then climbing left turn to PGA VOR/DME. Cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA.

NOTE: **Rwy 15**, terrain 192' from departure end of runway, 274' right of centerline, 4323' MSL, tree 1.07 NM from departure end of runway, 167' left of centerline, 4519 MSL, transmission lines 1.96 NM from departure end of runway, 825' left of centerline, 100' AGL/4519' MSL, power line 4.00 NM from departure end of runway, 3606' right of centerline, 75' AGL/4819' MSL, power line 4.35 NM from departure end of runway, 3968' right of centerline, 75' AGL/4919' MSL, power line 5.36 NM from departure end of runway, 5039' right of centerline, 75' AGL/5119' MSL, power line 4.51 NM from departure end of runway, 4136' right of centerline, 75' AGL/5019' MSL, tree 4.52 NM from departure end of runway, 1508' right of centerline, 100' AGL/5173' MSL, AAO 4.58 NM from departure end of runway, 1617' right of centerline, 200' AGL/5187' MSL, AAO 5.15 NM from departure end of runway, 4456' left of centerline, 200' AGL/5190' MSL, tree 5.56 NM from departure end of runway, 4097' right of centerline, 30' AGL/5249' MSL, AAO 5.98 NM from departure end of runway, 653' left of centerline, 200' AGL/5440' MSL.

PARKER, AZ

AVI SUQUILLA

TAKE-OFF MINIMUMS: **Rwy 1**, 800-1½. **Rwy 19**, 300-1. DEPARTURE PROCEDURE: **Rwy 19**, right turn. **Rwy 1**, left turn. Climb via R-067 to PKE VORTAC, to cross above 4500. Continue climb on course to MEA or assigned altitude.

PAYSON, AZ

PAYSON

TAKE-OFF MINIMUMS: **Rwy 6**, std. with a min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions. **Rwy 24**, std. with a min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions. DEPARTURE PROCEDURE: **Rwys 6, 24**, for climb in visual conditions: Cross Payson Airport at or above 7500, then proceed on course.

NOTE: **Rwy 24**, bush 15' from departure end of runway, 133' right of centerline, 6' AGL/5148' MSL. Tree 320' from departure end of runway, 183' right of centerline, 12' AGL/5154' MSL. Fence 85' from departure end of runway, 84' left of centerline, 4' AGL/5141' MSL. Tree 164' from departure end of runway, 126' left of centerline, 9' AGL/5147' MSL.

PHOENIX, AZ

PHOENIX-DEER VALLEY

DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.

PHOENIX SKY HARBOR INTL (PHX)

AMDT 4A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. with a min. climb of 358' per NM to 2000.

DEPARTURE PROCEDURE: **Rwys 7L, 7R, 8**, climb via 078° heading to 3000, then climbing right turn direct PHOENIX (PXR) VORTAC. **Rwys 25L, 25R**, climb via 258° heading to 1550 then climbing right turn to join the PXR R-260 (V16) westbound, climb to 5000. **Rwy 26**, climb via 258° heading to 1550 then climbing left turn to join the PXR R-260 (V16) westbound, climb to 5000. Westbound departures continue climb on PXR R-260. All others, climbing right turn direct PXR VORTAC.

NOTE: **Rwy 7L**, building 1332' from DER, 798' left of centerline, 67' AGL/1176' MSL. **Rwy 7R**, rd 716' from DER, 184' right of centerline, 87' AGL/1196' MSL. **Rwy 8**, light standard 3530' from DER, 1207' left of centerline, 123' AGL/1232' MSL. Light standard 3479' from DER, 1003' left of centerline, 118' AGL/1227' MSL. **Rwy 25L**, light standard 1129' from DER, 774' left of centerline, 91' AGL/1200' MSL. ASDE-X equipment 411' from DER, 531' left of centerline, 29' AGL/1135' MSL. **Rwy 26**, light 59' from DER, 63' right of centerline, 16' AGL/1125' MSL. Pole 58' from DER, 90' right of centerline, 25' AGL/1125' MSL. Light 78' from DER of runway, 64' right of centerline, 18' AGL/1127' MSL. Light 38' from DER, 440' left of centerline, 24' AGL/1135' MSL. Light standard 77' from DER, 453' left of centerline, 27' AGL/1136' MSL. Light standard 74' from DER, 456' right of centerline, 33' AGL/1142' MSL. Light standard 77' from DER, 434' right of centerline, 31' AGL/1140' MSL. Tree 113' from DER, 294' right of centerline, 24' AGL/1133' MSL. Building 2.32 NM from DER, 3309' right of centerline, 406' AGL/1496' MSL. Building 2.28 NM from DER, 3612' right of centerline, 663' AGL/1750' MSL. Tree 234' from DER, 214' right of centerline, 24' AGL/1133' MSL. Light standard 64' from DER, 68' left of centerline, 39' AGL/1125' MSL. ASDE-X equipment 897' from DER, 413' right of centerline, 35' AGL/1141' MSL.

PHOENIX-MESA GATEWAY

TAKE-OFF MINIMUMS: **Rwys 30L, 30C, 30R**, CAT C,D,E 2000-2 or std. with a min. climb of 230' per NM to 3900.

DEPARTURE PROCEDURE: **Rwys 12L, 12C, 12R**, climb to 2500 via IWA R-122 then climbing right turn direct PXR VORTAC. **Rwys 30L, 30C, 30R**, climbing right turn to 4000 via IWA R-122 then climbing right turn direct PXR VORTAC.

PRESCOTT, AZ

ERNEST A. LOVE FIELD

TAKE-OFF MINIMUMS: **Rwy 12**, 2700-2 or std. with a min. climb of 460' per NM to 8100. **Rwy 21L**, 2700-2 or std. with a min. climb of 500' per NM to 8100. **Rwy 30**, 300-1 or std. with a min. climb of 300' per NM to 5200. **Rwy 3L, 21R, NA**.

DEPARTURE PROCEDURE: **Rwy 3R**, turn left heading 250° to intercept DRK R-305. **Rwy 12**, turn right direct DRK VORTAC. **Rwy 21L**, turn right heading 335° to intercept DRK R-305. **Rwy 30**, climb direct DRK VORTAC. **All aircraft** continue climb via DRK R-305 to 9000. Aircraft departing via DRK R-305 continue climb on course. All other aircraft turn right direct DRK VORTAC then climb on course.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FLD (PUC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7, NA** - per flight check **Rwy 32**, std. w/ min. climb of 425' per NM to 7000, or 3400-3 for climb in visual conditions. **Rwy 36**, std. w/ min. climb of 400' per NM to 7200, or 3400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 126° CW to 193°, thence... **Rwy 18**, climb on a heading between 192° CCW to 125°, thence... **Rwy 25**, climb on a heading between 176° CCW to 124°, thence... **Rwy 32**, climb to 7000 then climbing left turn on a heading between 175° CCW to 145°, thence... **Rwy 36**, climb to 6400 then climbing right turn on a heading between 141° CW to 184°, maintain 210K until completion of turn, thence... continue climb to assigned altitude for direction of flight. **Rwys 32, 36**, for climb in visual conditions cross Carbon County Rgnl / Buck Davis Field at or above 9200 before proceeding on course.

NOTE: **Rwy 14**, multiple trees beginning 121' from DER, 3' left of centerline, up to 40' AGL/5839' MSL. **Rwy 25**, trees 515' from DER, 535' right of centerline, up to 40' AGL/5879' MSL. **Rwy 32**, trees 9544' from DER, 1644' left of centerline, up to 40' AGL/6900' MSL. Trees 11332' from DER, 74' right of centerline, up to 40' AGL/6800' MSL. **Rwy 36**, poles 2599' from DER, 615' left of centerline, 40' AGL/6079' MSL. Poles 2715' from DER, 668' right of centerline, 59' AGL/6098' MSL.

PROVO, UT

PROVO MUNI

DEPARTURE PROCEDURE: Use PROVO DEPARTURE.

RENO, NV

RENO/STEAD (RTS)

AMDT 3A 09183 (FAA)

TAKE-OFF MINIMUMS: CAT A,B only, CAT C,D NA. **Rwys 8,14**, 1300-2 or std. with a min. climb of 400' per NM to 6500. **Rwy 26**, 1900-2 or std. with a min. climb of 410' per NM to 7200. **Rwy 32**, 2300-2 or std. with a min. climb of 420' per NM to 7200.

DEPARTURE PROCEDURE: **Rwys 8,32**, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC. **Rwy 14**, left turn climb direct FMG VORTAC. **Rwy 26**, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC. **All aircraft** climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CW R-170 at or above 10000; R-171 CW R-195 at or above 10500; R-196 CW R-259 at or above 12000.

RENO, NV (CON'T)

RENO/TAHOE INTL (RNO)

AMDT 4 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA-terrain. **Rwy 16L**, std. w/ min. climb of 730' per NM to 8000, or 600-1½ w/ min. climb of 480' per NM to 8000, or 2700-3 for climb in visual conditions. **Rwy 16R**, std. w/ the following minimum climb requirements: 210 knots or less, 385' per NM to 8000; more than 210 knots, 420' per NM to 8900, or 2700-3 for climb in visual conditions. Resume normal speed after passing FMG VORTAC. **Rwy 25**, std. w/ min. climb of 470' per NM to 7800, or 2700-3 for climb in visual conditions. **Rwy 34L**, std. w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions. **Rwy 34R**, std. w/ min. climb of 480' per NM to 7000, or 500-1½ w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 16L/R**, climb heading 164° to 6600 then climbing left turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwy 25**, climb heading 254° to 5000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwys 34L/R**, climb heading 344° to 7000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence...

... **All aircraft**: continue climb in FMG VORTAC holding pattern (northeast, left turn, 221° inbound) to cross FMG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 16L**, multiple poles, trees, bushes and terrain beginning 618' from departure end of runway, 133' left of centerline, up to 20' AGL/4961' MSL. **Rwy 16R**, multiple trees 2784' from departure end of runway, 171' right of centerline, up to 20' AGL/4510' MSL. Multiple trees and terrain beginning 746' from departure end of runway, 380' left of centerline, up to 20' AGL/4703' MSL. **Rwy 25**, multiple trees and poles beginning 829' from departure end of runway, 201' right of centerline, up to 103' AGL/4523' MSL. Building 6023' from departure end of runway, 456' right of centerline, 152' AGL/4608' MSL. Fence 222' from departure end of runway, 270' right of centerline, up to 5' AGL/4415' MSL. Multiple trees and poles beginning 500' from departure end of runway, 31' left of centerline, up to 20' AGL/4506' MSL. **Rwy 34L**, multiple trees and poles beginning 1229' from departure end of runway, 180' right of centerline, up to 20' AGL/4498' MSL. Multiple trees beginning 1193' from departure end of runway, 331' left of centerline, up to 20' AGL/4489' MSL. **Rwy 34R**, multiple trees and poles beginning 1067' from departure end of runway, 172' right of centerline, up to 20' AGL/4497' MSL. Multiple trees and poles beginning 1230' from departure end of runway, 350' left of centerline, up to 20' AGL/4498' MSL. Building 1.2 NM from departure end of runway, 1730' right of centerline, 363' AGL/4780' MSL.

RICHFIELD, UT

RICHFIELD MUNI (RIF)

AMDT 1 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, use RICHFIELD (RNAV) DEPARTURE. **Rwy 19**, use HAMET (RNAV) DEPARTURE.

ROOSEVELT, UT

ROOSEVELT MUNI

TAKE-OFF MINIMUMS: **Rwy 25**, 700-3 or std. with a min. climb of 300' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 7**, turn right.

Rwy 25, turn left. **All aircraft**, climb direct MTU VORTAC. Aircraft departing MTU VORTAC R-040 CWR-150, climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VORTAC; R-151 CW R-290 at or above 8000; R-291 CWR-039 at or above 10,000. Then climb on course.

SAFFORD, AZ

SAFFORD RGNL

TAKE-OFF MINIMUMS: IFR departure not authorized.

ST. GEORGE, UT

ST. GEORGE MUNI

TAKE-OFF MINIMUMS: **Rwy 34**, 1500-2 or std. with a min. climb of 325' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 16**, turn left. **Rwy 34**, turn right. Climb in OZN VOR/DME holding pattern (hold SE, right turns, 296° inbound) to depart OZN VOR/DME at or above MEA for direction of flight.

ST. JOHNS, AZ

ST. JOHNS INDUSTRIAL AIR PARK (SJN)

AMDT 1A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 21**, 400-2 or std. with a min. climb of 205' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 3, 32**, climbing right turn, **Rwys 14, 21**, climbing left turn. **All aircraft**, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW R-080 climb on course. All others continue climb in SJN VORTAC holding pattern (Hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.

NOTE: **Rwy 14**, 5790' tower 350' right abeam departure end of runway.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SALT LAKE CITY, UT

SALT LAKE CITY INTL (SLC)

AMDT 10 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 32**, NA, operational.

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 10000 via heading 161° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 17**, climb to 10000 via heading 166° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwys 34L, 34R**, climb to 9000 via heading 341° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 35**, climb to 9000 via heading 336° and OGD R-153 to OGD VORTAC before proceeding on course.

NOTE: **Rwy 16L**, vehicle 124' from DER, 14' right of centerline, 15' AGL/4239' MSL. Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL. Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL. **Rwy 17**, vehicles beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL. **Rwy 34R**, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL. **Rwy 35**, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

SOUTH VALLEY RGNL AIRPORT (U42)

AMDT 4A 09155 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 2400-3 or std. with a min. climb of 295' per NM to 7700. **Rwy 34**, std. with a min. climb of 353' per NM to 9500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing left turn to 9600 via heading 136° and V21 (TCH R-161 FFU R-341) to FFU VORTAC. Aircraft departing FFU R-156 CW R-263 and R-308 CW R-359 climb on course. All others continue climb in FFU VORTAC holding pattern (S, right turns, 008° inbound) to cross FFU VORTAC at or above: R-360 CW R-093 12400; R-094 CW R-138 10600; R-139 CW R-155 11300; R-264 CW R-307 11500. **Rwy 34**, climbing right turn to 9500 via heading 026° and V21 (TCH R-161) to TCH VORTAC. Aircraft departing TCH R-144 CW R-176 and R-217 CW R-355 climb on course. All others continue climb in TCH VORTAC holding pattern (NW, right turns, 116° inbound) to cross TCH VORTAC at or above: R-356 CW R-116 10700; R-117 CW R-143 11600; R-177 CW R-216 10100.

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

AMDT 7 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min climb of 440' per NM to 4000, or 3100-3 for climb in visual conditions. **Rwy 21**, std. w/ min. climb of 215' per NM to 4000, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 4000 via heading 220° and PXR VORTAC R-336 southeast bound to PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course. **Rwy 21**, climbing right turn to 4000 via heading 300° and PXR VORTAC R-336 northwest bound then left turn direct PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course.

...continue climb on course.

NOTE: **Rwy 3**, multiple light standards beginning 63' from departure end of runway, 445' left of centerline, up to 44' AGL/1554' MSL. Hoist on dike 878' from departure end of runway, 735' left of centerline, 51' AGL/1561' MSL. Dike beginning 1066' from departure end of runway, 316' left of centerline, 38' AGL/1548' MSL. Day marker on dike 1230' from departure end of runway, 5' left of centerline, 39' AGL/1549' MSL. Tree, 269' from departure end of runway, 490' left of centerline, 13' AGL/1523' MSL. Tree 51' from departure end of runway, 279' left of centerline, 6' AGL/1516' MSL. Tree 765' from departure end of runway, 115' left of centerline, 22' AGL/1532' MSL. Road beginning 647' from departure end of runway, 296' left of centerline, 19' AGL/1529' MSL. Tree 227' from departure end of runway, 97' left of centerline, 6' AGL/1516' MSL. Fence beginning 5' from departure end of runway, 338' right of centerline, 6' AGL/1511' MSL. Light standard, 1013' from departure end of runway, 430' right of centerline, 44' AGL/1552' MSL. **Rwy 21**, tree 1072' from departure end of runway, 426' right of centerline, 53' AGL/1497' MSL. Building 316' from departure end of runway, 537' right of centerline, 23' AGL/1467' MSL. Tree 2087' from departure end of runway, 418' left of centerline, 61' AGL/1505' MSL. Tree 1432' from departure end of runway, 438' right of centerline, 38' MSL/1482' MSL. Tree 2234' from departure end of runway, 559' left of centerline, 58' AGL/1502' MSL.

SEDONA, AZ

SEDONA (SEZ)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 21**, Use OATES RNAV DEPARTURE.

SHOW LOW, AZ

SHOW LOW RGNL

DEPARTURE PROCEDURE: **Rwys 3,6**, turn left.

Rwys 21,24, turn right. All aircraft climb via 345 bearing from SOW NDB to DEHOG INT then climb on course.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI

TAKE-OFF MINIMUMS: **Rwy 21**, 1000-2 or std. with a min. climb of 360' per NM to 8400.

DEPARTURE PROCEDURE: **Rwys 3, 11**, climbing left turn to 8400 via heading 360° before proceeding on course. **Rwys 21, 29**, climbing right turn to 8400 via 360° before proceeding on course.

TAYLOR, AZ

TAYLOR MUNI

TAKE-OFF MINIMUMS: **Rwy 21**, 300-1 or std. with a min. climb of 248' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 3/21**, climb on runway heading to 8000 before turning on course.

TONOPAH, NV

TONOPAH

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA. **Rwys 15, 33**, 2600-2 or std. with a min. climb of 260' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 15**, turn left. **Rwy 33**, turn right. Climb direct TPH VORTAC. Continue climb in holding pattern (NE, right turns, 246° inbound) to depart TPH VORTAC at or above 8000. Climb on course to MEA or assigned altitude.

TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 490' per NM to 11000. **Rwy 35**, std. with a min. climb of 360' per NM to 9000.

DEPARTURE PROCEDURE: Use STACO DEPARTURE.

NOTE: **Rwy 17**, tree 794' from departure end of runway, 277' right of centerline, 35' AGL/4380' MSL. Tree 967' from departure end of runway, 432' right of centerline, 35' AGL/4394' MSL. Tree 1023' from departure end of runway, 313' right of centerline, 35' AGL/4395' MSL.

TUCSON, AZ

MARANA RGNL

TAKE-OFF MINIMUMS: **Rwys 3, 12**, N/A-Obstacles DEPARTURE PROCEDURE: **Rwy 21**, climb to 6500 via heading 360° and TUS R-308 to TOTEC Int/TUS 57 DME, then as filed. **Rwy 30**, climb to 6500 via heading 303° intercept TUS R-308 above 3500, to TOTEC INT/TUS 57 DME, then as filed.

NOTE: **Rwy 21**, road 192' from departure end of runway, 527' left of centerline 15' AGL/2034' MSL.

RYAN FIELD

DEPARTURE PROCEDURE: **Rwy 6R**, turn right; **Rwy 24L**, turn left direct to Ryan NDB. Continue climb in holding pattern (W, right turn 090° inbound) to 5000 before proceeding on course.

TUCSON, AZ (CON'T)

TUCSON INTL (TUS)

AMDT 4A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1¾ or std. w/ min. climb of 228' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 3, 29L, 29R**, climbing right turn direct to TUS VORTAC. **Rwys 11L, 11R** climb via runway heading to 4000 then climbing left turn direct TUS VORTAC. **Rwy 21**, climbing left turn direct to TUS VORTAC. **All aircraft** continue climbing in holding pattern (NW, right turns, 128° inbound) to depart TUS VORTAC at or above 9000.

NOTE: **Rwy 3**, tower 9215' from departure end of runway, 1689' left of centerline, 246' AGL/2831' MSL.

VERNAL, UT

VERNAL RGNL

TAKE-OFF MINIMUMS: **Rwy 16**, 1500-2 or std with a min. climb of 250' per NM to 7000'. **Rwy 25**, 1500-2 or std. with a min. climb of 390' per NM to 7000. **Rwy 34**, 1600-2 or std. with a min. climb of 330' per NM to 7000'.

DEPARTURE PROCEDURE: **Rwys 7, 34**, turn right. **Rwys 16, 25**, turn left. **All aircraft** climb direct VEL. Aircraft departing V391 S-bound climb on course. All others climb in holding pattern (SE, right turns, 322° inbound). Aircraft SW-bound V208 depart VEL at or above 8400', all others depart VEL at or above 9500'. Continue climb on course to MEA or assigned altitude.

WENDOVER, UT

WENDOVER

TAKE-OFF MINIMUMS: **Rwy 26**, standard with a min. climb of 300' per NM to 7000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwys 8, 12, 26**, climbing left turn direct BVL VORTAC. Aircraft departing BVL VORTAC R-330 CW R-150 climb on course. All others continue climb in BVL VORTAC holding pattern (Hold NE right turns, 247° inbound) to cross at or above 7400, then climb on course.

WILLCOX, AZ

COCHISE COUNTY

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. **All aircraft** climb direct CIE VORTAC.

WINDOW ROCK, AZ

WINDOW ROCK

TAKE-OFF MINIMUMS: **Rwy 2**, 700-2 or std. with a min. climb of 500' per NM to 8000. **Rwy 20**, 600-2 or std. with a min. climb of 260' per NM to 8200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right.

Rwy 20, turn left direct to GUP VORTAC before proceeding on course.

NOTE: **Rwy 2**, terrain 3832' from departure end of runway, 1025' right of centerline, 6926' MSL. Poles 5220' from departure end of runway, 245' right of centerline, 180' AGL/6922' MSL. Tower 7067' from departure end of runway, 3072' left of centerline, 71' AGL/7316' MSL. Terrain 7449' from departure end of runway, 1612' left of centerline, 6991' MSL. Terrain 8776' from departure end of runway, 1851' left of centerline, 7109' MSL. Tree 9665' from departure end of runway, 1326' right of centerline, 7340' MSL. Tree 11326' from departure end of runway, 355' left of centerline, 7351' MSL. **Rwy 20**, trees 1018' from departure end of runway, 620' left of centerline, 30' AGL/6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 2500-2 or std. with a min. climb of 450' per NM to 6800. **Rwys 14,20**, 3200-2 or std. with a min. climb of 520' per NM to 7500.

DEPARTURE PROCEDURE: **Rwys 14,20**, turn right.

Rwy 2, turn left. **Rwy 32**, climb straight ahead. All aircraft climb via INA R-326 to 6700 or above within 12 NM, then climbing left turn return to INA VOR/DME via R-326. Continue climb in INA VOR/DME holding pattern (hold NW, right turns, 146° inbound) to depart INA VOR/DME at or above 11000. Southbound aircraft continue via INAR-146 direct Fesko Int. Northbound aircraft continue via INAR-326 and SDO R-144 direct SDO VORTAC.

YUMA MCAS/ YUMA INTL(KNYL)

YUMA, AZ 09323

Diverse departures not auth between 360° CW 055° from 25 NM to 30 NM.

Rwy 3L: Cross DER at or above 35' AGL/228' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 3R: Cross DER at or above 35' AGL/242' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 21L: Cross DER at or above 35' AGL/223' MSL.

Diverse departures auth.

Rwy 21R: Cross DER at or above 35' AGL/227' MSL.

Diverse departures auth.

Rwy 8: Cross DER at or above 35' AGL/231' MSL.

Diverse departures auth. Fr 069° CW 123°, std with minimum climb of 230'/NM to 3500'.

Rwy 26: Cross DER at or above 35' AGL/230' MSL.

Diverse departures auth.

Rwy 17: Cross DER at or above 35' AGL/217' MSL.

Diverse departures auth. Fr 068° CW 109°, std with minimum climb of 220'/NM to 3500'.

Rwy 35: Cross DER at or above 35' AGL/231' MSL.

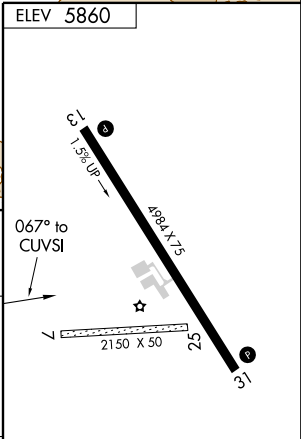
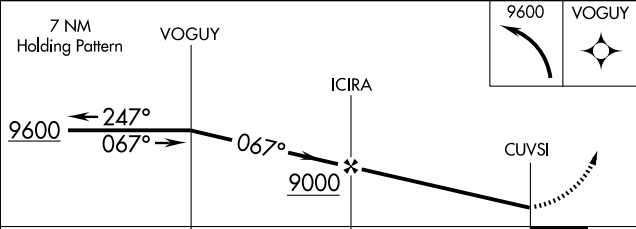
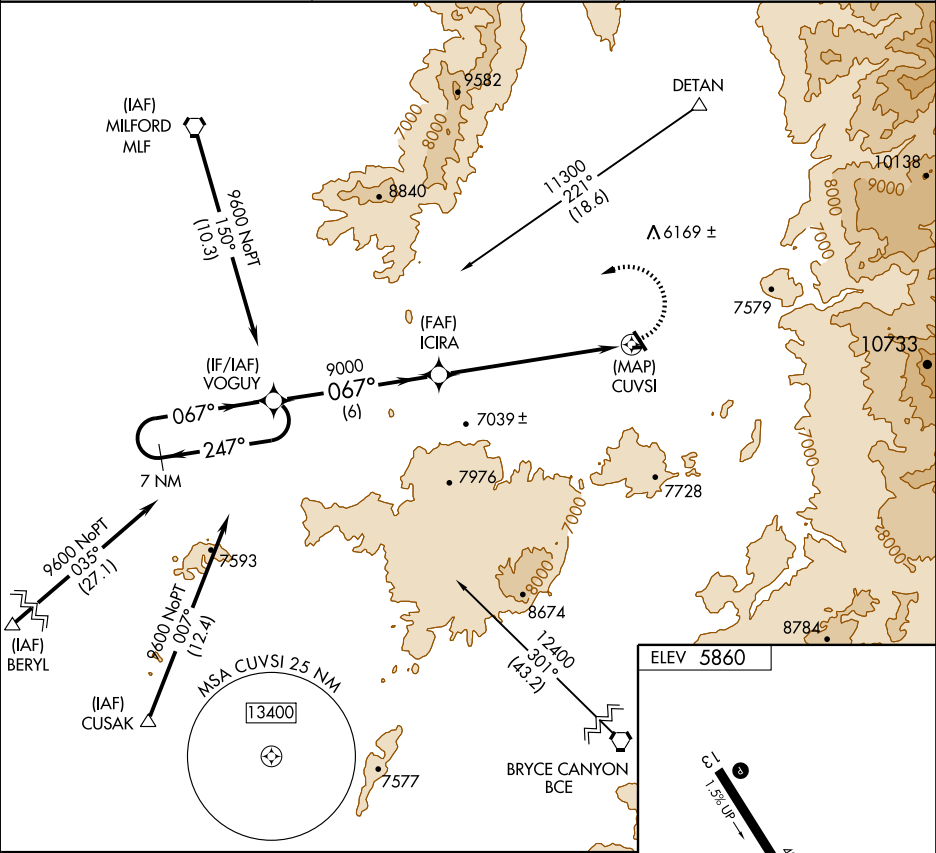
Diverse departures auth.

APP CRS	Rwy Idg
067°	TDZE
	Apt Elev
	N/A
	5860

NA DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Milford Muni altimeter setting and increase all MDAs 180 feet.

MISSED APPROACH: Climbing left turn to 9600 direct VOGUY and hold.

AWOS-3 119.925	SALT LAKE CITY CENTER 125.575 379.275	CTAF 122.9
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CATEGORY	A	B	C	D
CIRCLING	7080-1¼ 1220 (1300-1¼)	7080-1½ 1220 (1300-1½)	7080-3 1220 (1300-3)	NA

MIRL Rwy 13-31
REIL Rwy 13 and 31

RNAV (GPS) RWY 35

BLANDING MUNI (BDG)

APP CRS	Rwy Idg	5781
348°	TDZE	5814
	Apt Elev	5865

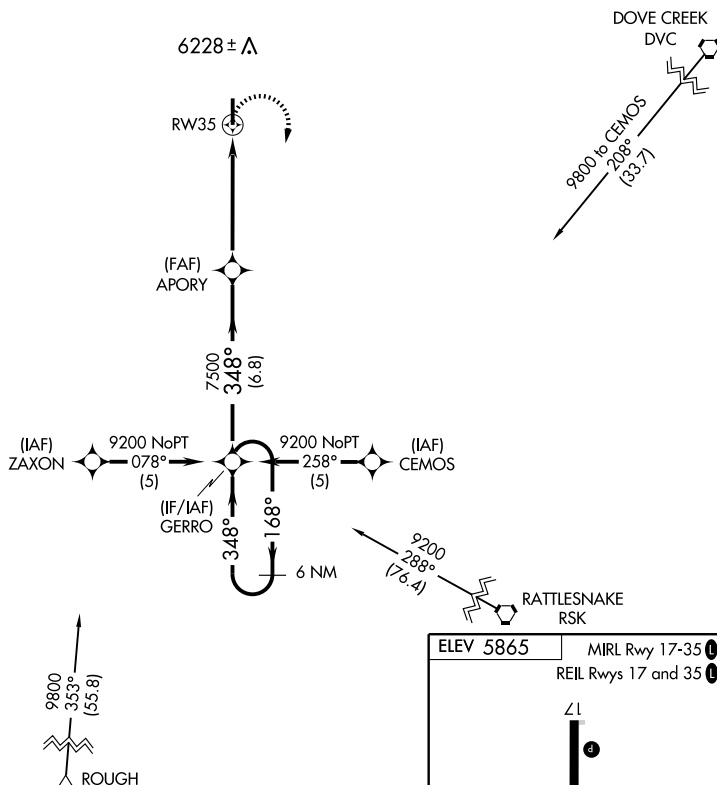


GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Cortez altimeter
setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 9200 direct GERRO WP and hold.

AWOS-3
127.75

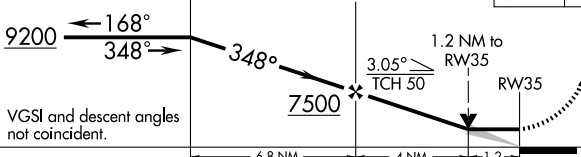
DENVER CENTER
127.55 343.95

UNICOM
122.8 (CTAF) **L**6 NM
Holding Pattern

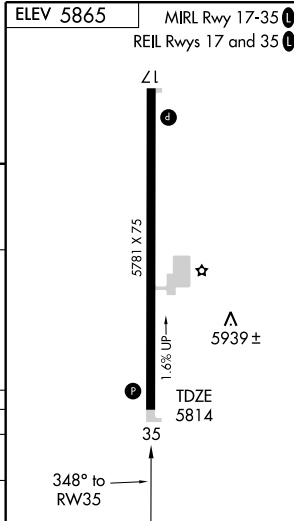
VDP NA with Cortez altimeter setting.

9200

GERRO



CATEGORY	A	B	C	D
LNAV MDA	6200-1 386 (400-1)			6200-1¼ 386 (400-1¼)
CIRCLING	6440-1 575 (600-1)	6480-1 615 (700-1)	6500-1¼ 635 (700-1¼)	6540-2¼ 675 (700-2¼)



NDB BMC
294

APP CR
009°Rwy Idg
TDZE
Apt Elev

N/A
N/A
4229

NDB-A
BRIGHAM CITY (BMC)

T When local altimeter setting not received, use
A **NA** Ogden-Hinckley altimeter setting and increase all MDA
100 feet and Cat C visibility $\frac{1}{4}$ mile.

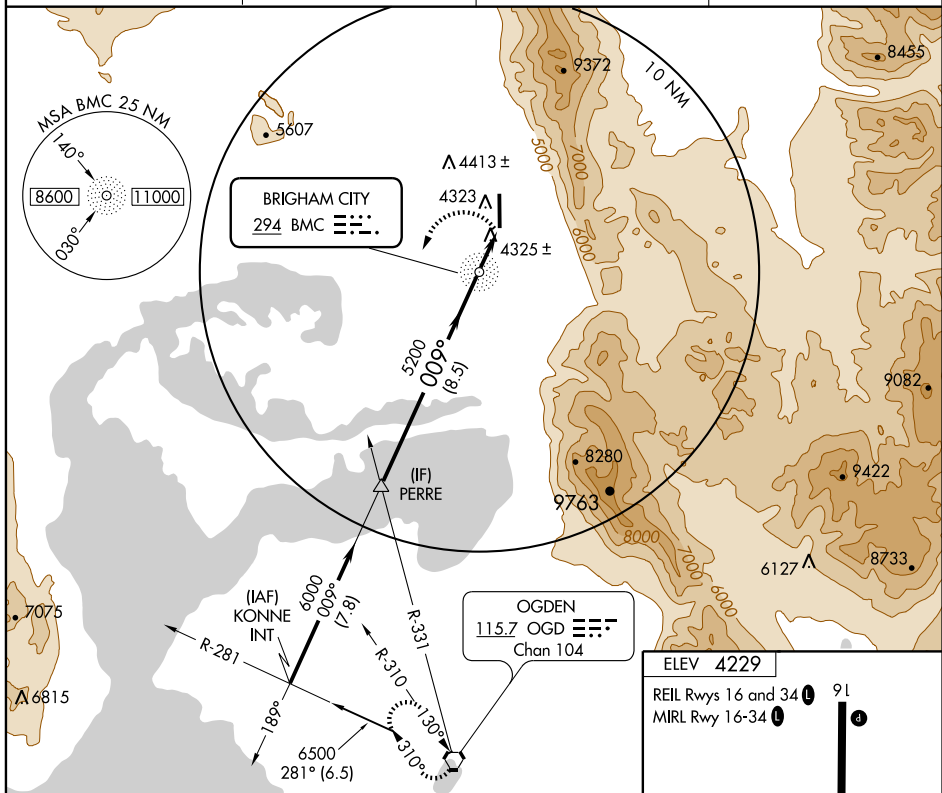
MISSED APPROACH: Climbing left turn to 7000 via heading 160° and BMC NDB 189° bearing to KONNE Int and left turn via OGD R-281 to OGD VORTAC and hold.

AWOS-3
135.075

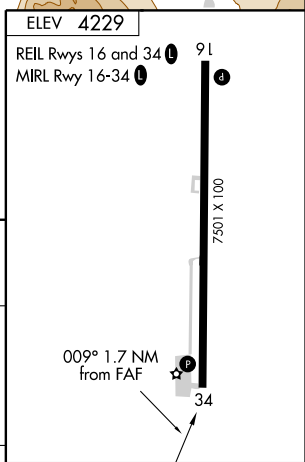
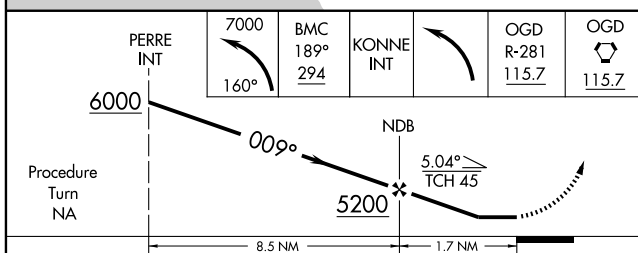
SALT LAKE CITY APP CON
121.1 319.25

CLNC DEL
126.0

UNICOM
123.05 (CTAF) 



Procedure NA for arrivals at OGD VORTAC
via airway radials 263 CW 331.



CATEGORY	A	B	C	D	FAF to MAP 1.7 NM					
CIRCLING	4640-1	4680-1	4840-1 ^¾	NA	Knots	60	90	120	150	180
	411 (500-1)	451 (500-1)	611 (700-1 ^¾)		Min:Sec	1:42	1:08	0:51	0:41	0:34

APP CRS	Rwy Idg	7501
356°	TDZE	4229
	Apt Elev	4229

RNAV (GPS) RWY 34

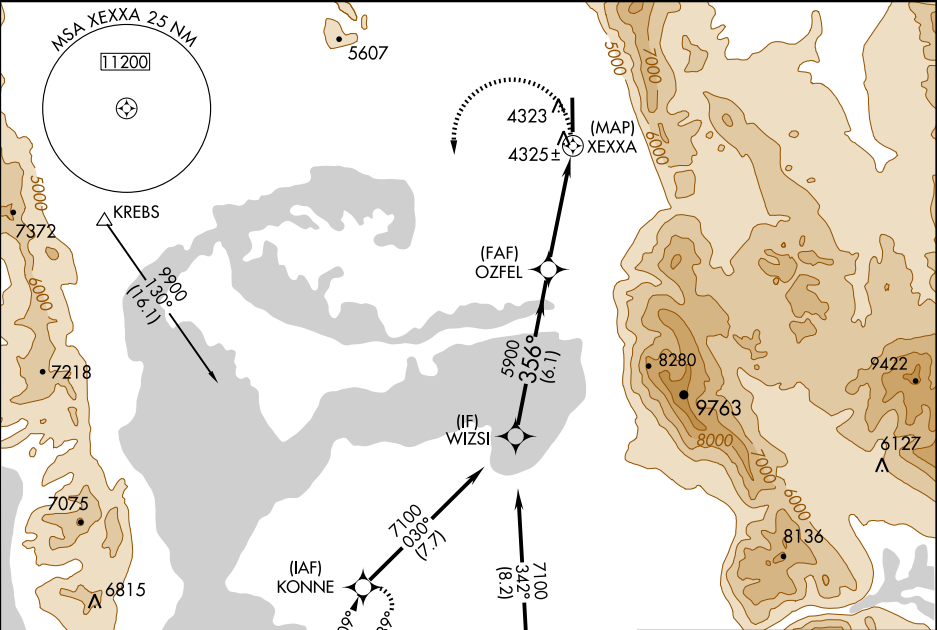
BRIGHAM CITY (BMC)

NA

If local altimeter setting not received, use Ogden altimeter setting and increase all MDAs 100 feet.
DME/DME RNP-0.3 NA.
VDP NA when using Ogden altimeter setting.

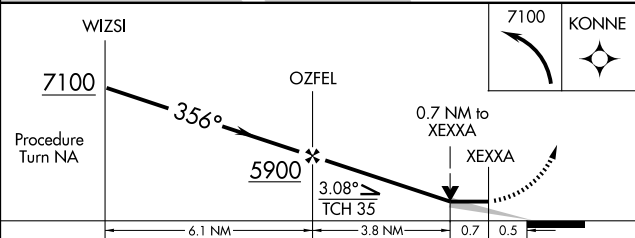
MISSED APPROACH: Climbing left turn to 7100 direct KONNE and hold.

AWOS-3 135.075	SALT LAKE CITY APP CON 121.1 319.25	CLNC DEL 126.0	UNICOM 123.05 (CTAF)
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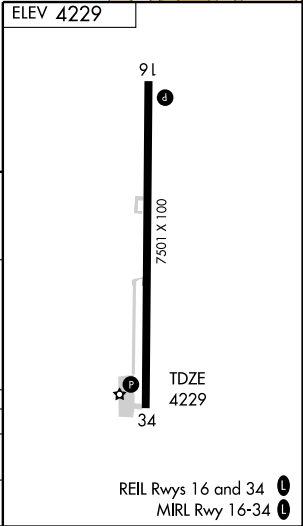


ELEV 4229

Procedure NA for arrivals at OGD VORTAC via V21 southeast bound.



CATEGORY	A	B	C	D
LNAV MDA	4640-1	411 (500-1)	4640-1¼ 411 (500-1¼)	NA
CIRCLING	4640-1 411 (500-1)	4680-1 451 (500-1)	4840-1¾ 611 (700-1¾)	NA



REIL Rwy 16 and 34
MIRL Rwy 16-34

▼

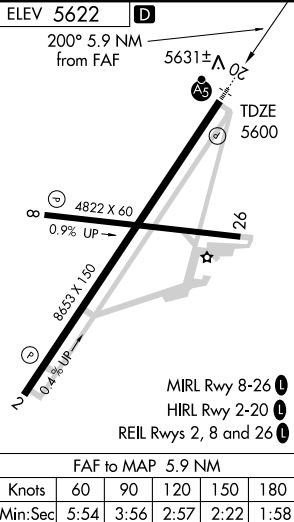
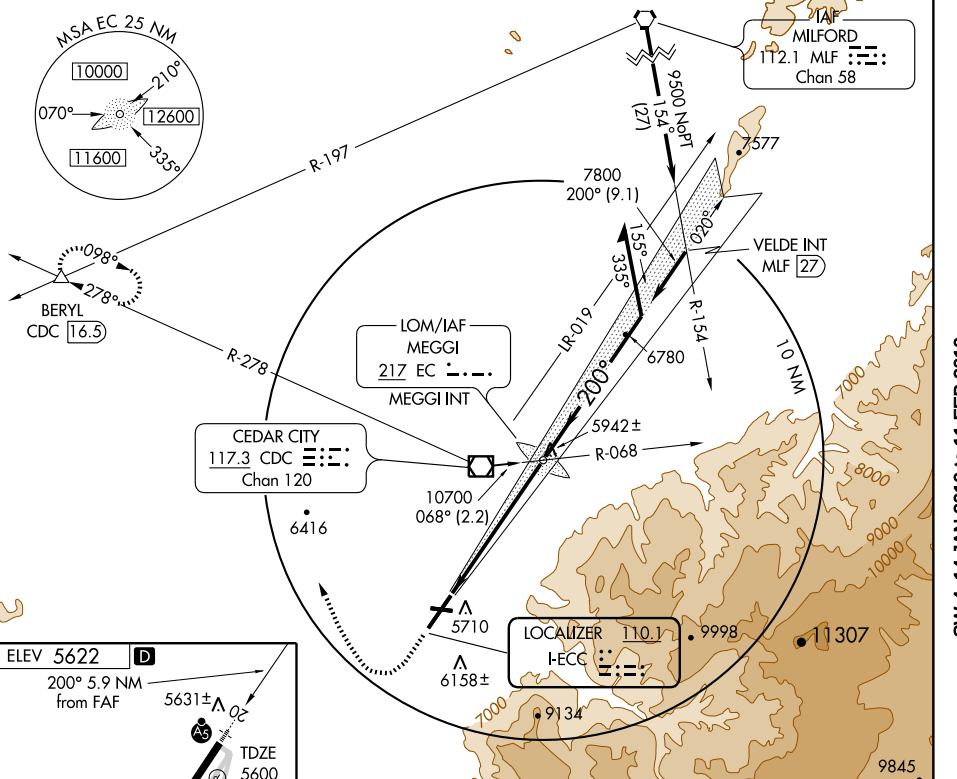
▲

Circling not authorized east of Rwy 2-20.

MALSR

MISSED APPROACH: Climb to 6100, then climbing right turn to 9500 via heading 322° and CDC VOR/DME R-278 to BERYL Int/16.5 DME and hold.

ASOS 119.025	CEDAR CITY RADIO 122.6 255.4	UNICOM 123.0 (CTAF) 0
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6100	9500	CDC R-278 117.3	BERYL	LOM/INT*	Remain within 10 NM
↑	↷	322°	△	020°	9100
*Maintain 10700 or above until established outbound for Procedure Turn.					
7550					
7800					
5.9 NM					
CATEGORY	A	B	C	D	
S-ILS 20	5800-½ 200 (200-½)				
S-LOC 20	5960-½ 360 (400-½)				5960-¾ 360 (400-¾)
CIRCLING	5980-1 358 (400-1)	6080-1 458 (500-1)	6080-1½ 458 (500-1½)	6440-2¾ 818 (900-2¾)	

SW-4. 14 JAN 2010 to 11 FEB 2010

RNAV (GPS) RWY 20

CEDAR CITY RGNL (CDC)

APP CRS
200°

Rwy Idg
8653

TDZE
5600

Apt Elev
5622

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Baro-VNAV NA below -26° C (-15° F)
Circling not authorized east of Rwy 2-20.
IAF ARM APPROACH MODE PRIOR TO IAF.

MALSR

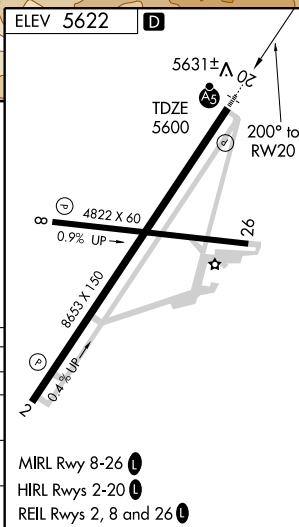
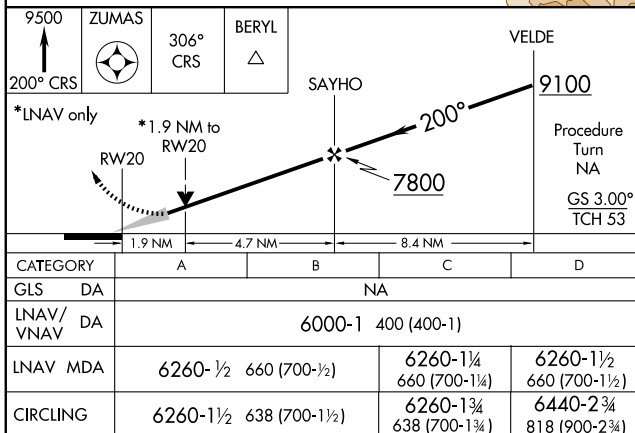
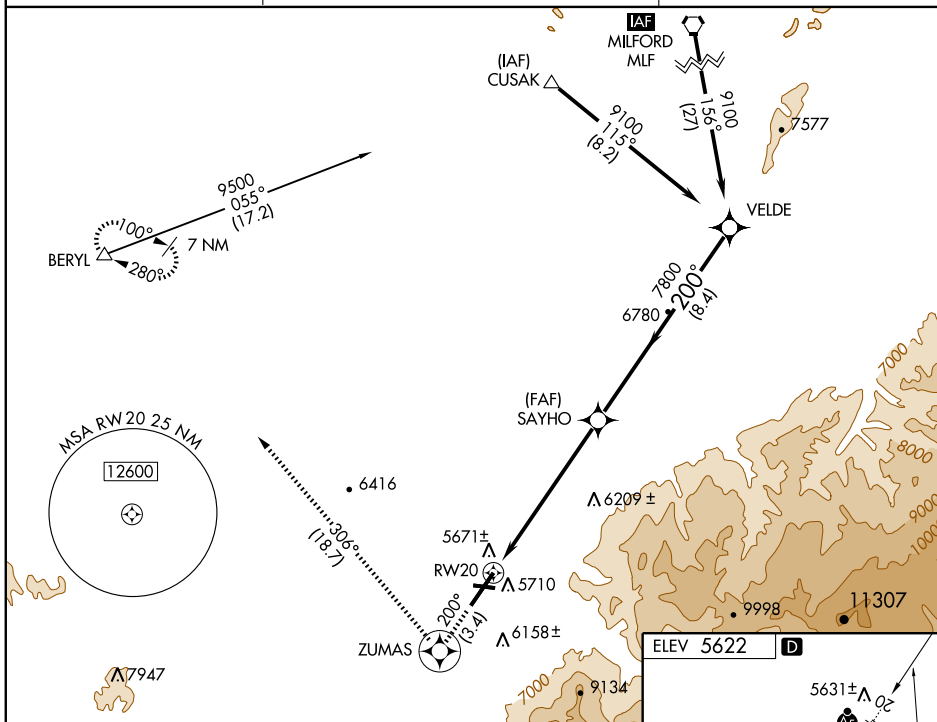


MISSED APPROACH: Climb to 9500 via 200° course to ZUMAS WP then via 306° course to BERYL WP and hold.

ASOS
119.025

CEDAR CITY RADIO
122.6 255.4

UNICOM
123.0 (CTAF) 1



MIRL Rwy 8-26 1
HIRL Rwy 2-20 1
REIL Rwy 2, 8 and 26 1

▼

▲

Circling not authorized east of Rwy 2-20.
Inoperative table does not apply.

MALSR

MISSED APPROACH: Climbing right turn to 9500
via 322° heading and CDC R-278 to BERYL INT/
CDC 16.5 DME and hold.

ASOS

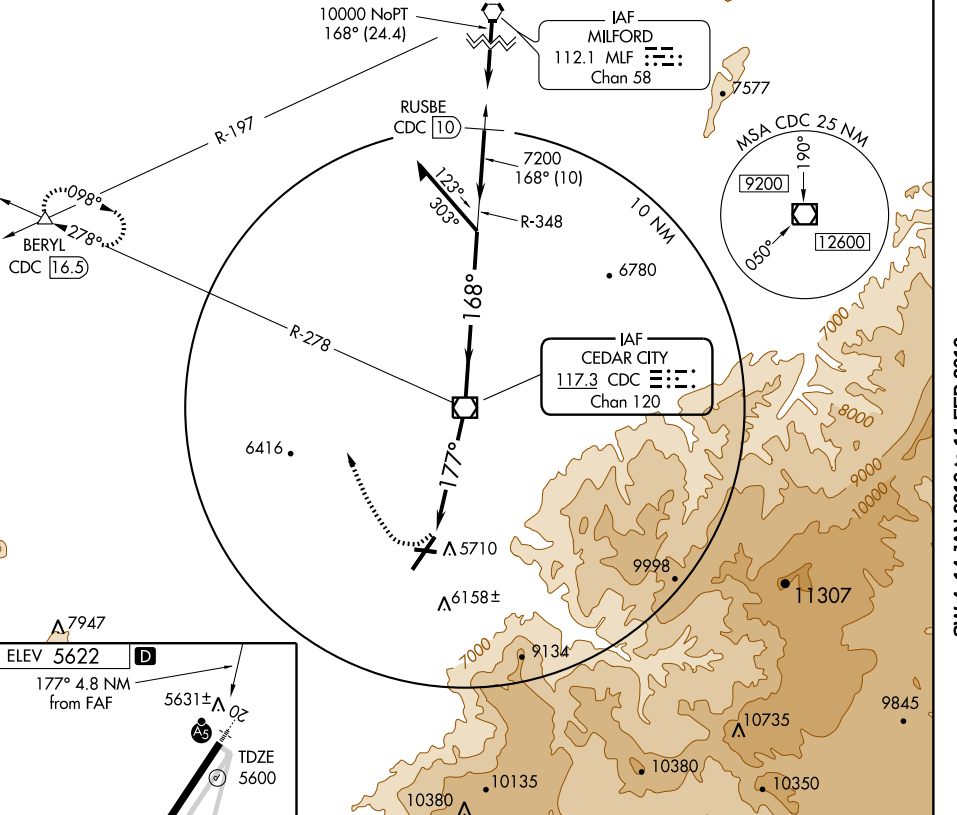
119.025

CEDAR CITY RADIO

122.6 255.4

UNICOM

123.0 (CTAF) 0



APP CRS	Rwy Idg	5500
166°	TDZE	4759
	Apt Elev	4759

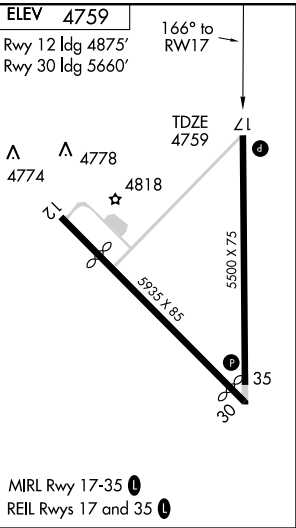
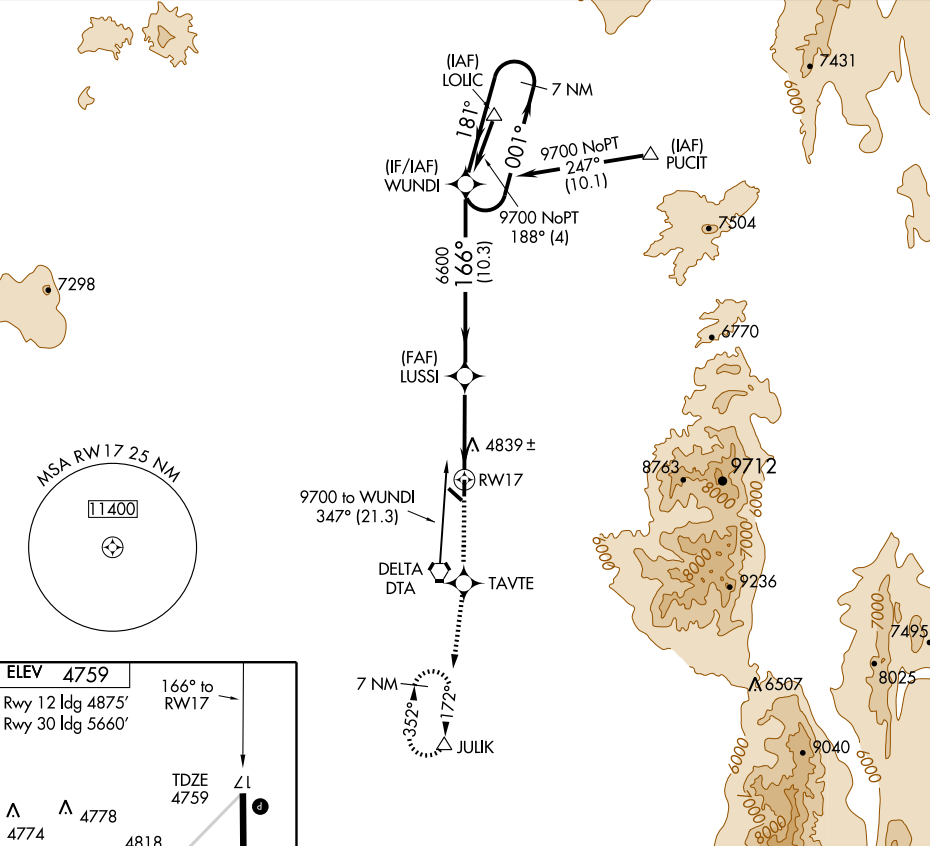
RNAV (GPS) RWY 17

DELTA MUNI (DTA)

⚠ DME/DME RNP-0.3 NA. Circling to Rwy 30 NA at night. **MISSED APPROACH:** Climb to 12000 direct TAVTE and via 173° track to JULIK and hold, continue climb-in-hold to 12000.

⚠ NA If local altimeter setting not received, procedure NA.

AWOS-3 127.75	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) 0
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12000	TAVTE	173° track	JULIK	WUNDI	7 NM Holding Pattern
					001° → 9700 ← 181°
					VGSI and descent angles not coincident.
CATEGORY	A	B	C	D	
LNAV MDA	5100-1 341 (400-1)				
CIRCLING	5140-1 381 (400-1)	5220-1 461 (500-1)	5220-1½ 461 (500-1½)	5320-2 561 (600-2)	

APP CRS	Rwy Idg	5500
346°	TDZE	4758
	Apt Elev	4759

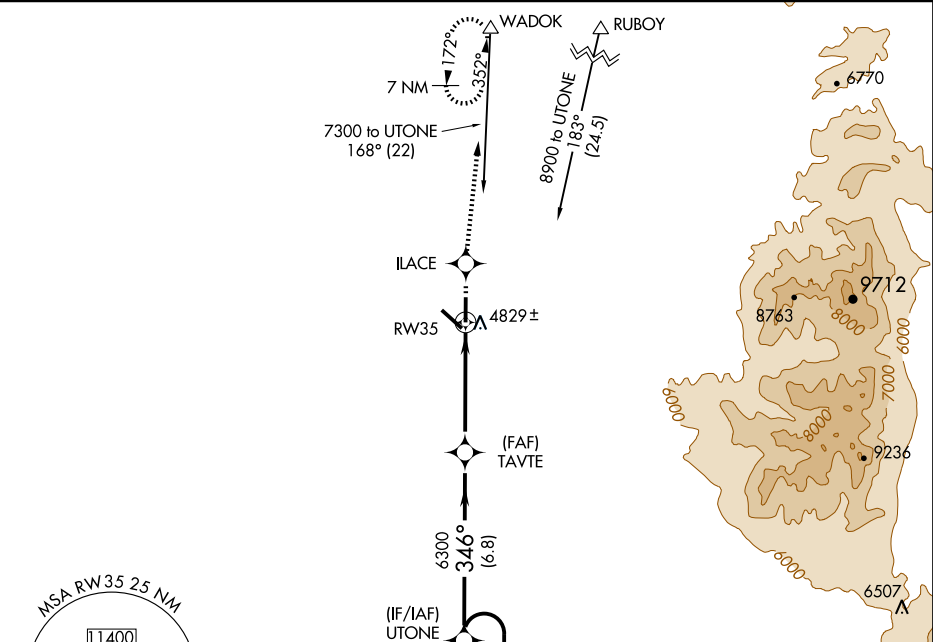
RNAV (GPS) RWY 35

DELTA MUNI (DTA)

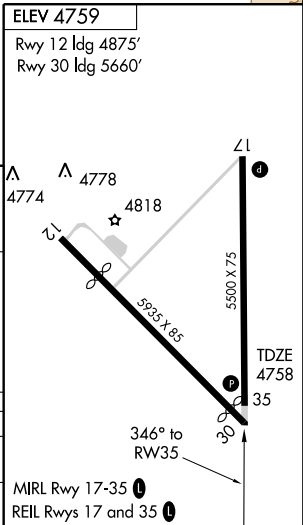
NA DME/DME RNP-0.3 NA.
Circling to Rwy 30 NA at night.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 11000 direct ILACE and via 352° track to WADOK and hold, continue climb-in-hold to 11000.

AWOS-3 127.75	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) 0
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6 NM Holding Pattern UTONE				
7300 ← 166° / 346° →				
VGSi and descent angles not coincident.				
6.8 NM 3.8 NM 0.9 NM				
CATEGORY	A	B	C	D
LNAV MDA	5080-1 322 (400-1)			
CIRCLING	5140-1 381 (400-1)	5220-1 461 (500-1)	5220-1½ 461 (500-1½)	5320-2 561 (600-2)



VORTAC DTA <u>116.1</u> Chan 108	APP CRS 166°	Rwy Idg 5500 TDZE 4759 Apt Elev 4759
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VOR/DME RWY 17
DELTA MUNI (DTA)

DELTA MUNI (DTA)

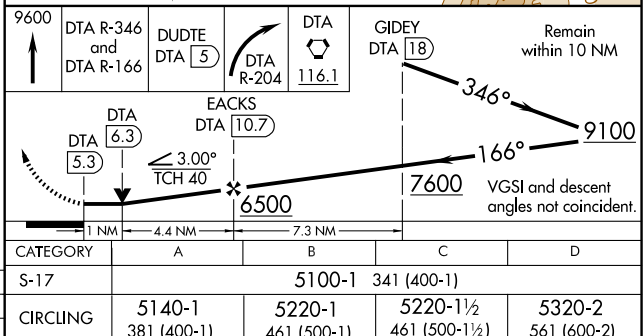
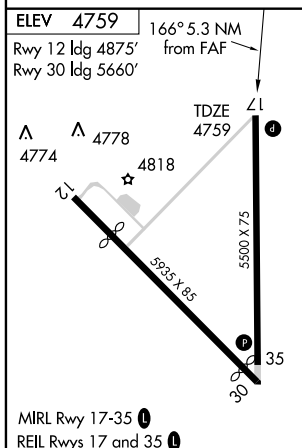
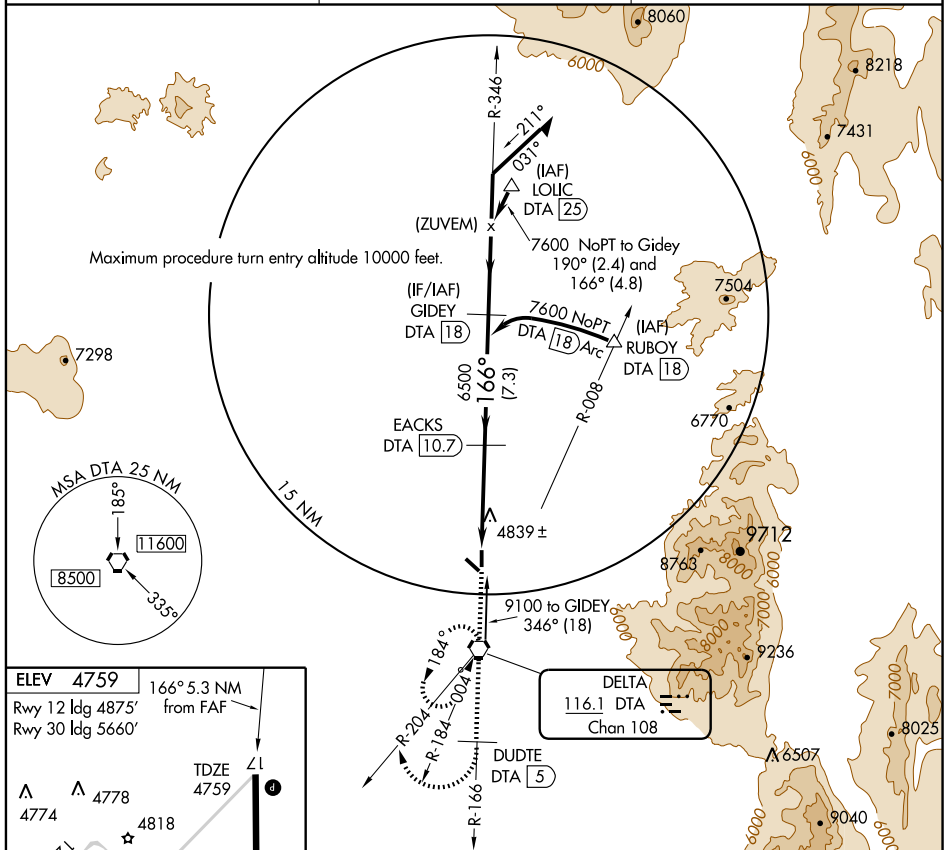
T	Circling to Rwy 30 NA at night.
A NA	If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 9600 via DTA VORTAC R-346 and R-166 to DUDTE/5 DME and climbing right turn via DTA VORTAC R-204 to DTA VORTAC and hold, continue climb-in-hold to 9600.

AWOS-3
127.75

CEDAR CITY RADIO
122.1R

UNICOM
122.8 (CTAF) **L**



VORTAC DTA <u>116.1</u> Chan 108	APP CRS 346°	Rwy Idg 5500 TDZE 4758 Apt Elev 4759
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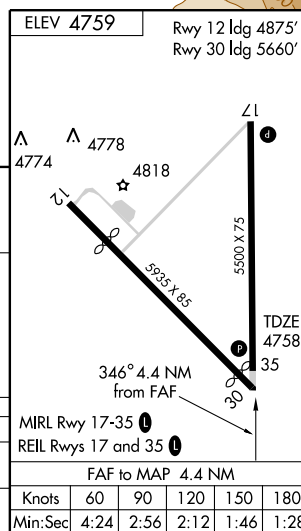
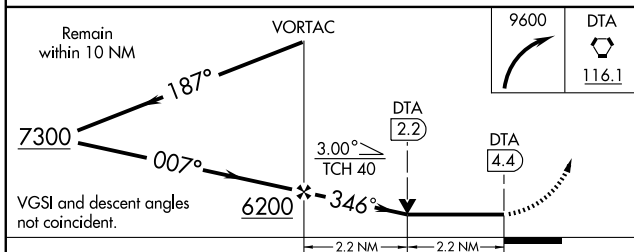
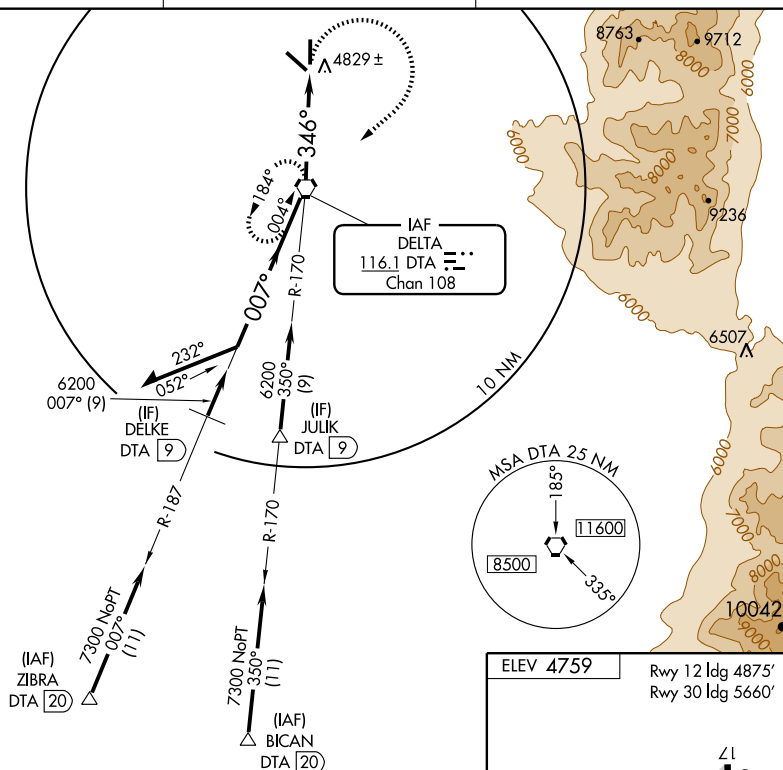
VOR RWY 35
DELTA MUNI (DTA)

T	Circling to Rwy 30 NA at night.
A NA	If local altimeter setting not received, procedure, NA.

MISSED APPROACH: Climbing right turn to 9600 direct DTA VORTAC and hold, continue climb-in-hold to 9600.

AWOS-3
127.75

CEDAR CITY RADIO
122.1R

UNICOM
122.8 (CTAF) **L**

NDB DPG 284	APCH CRS 080°	Rwy Idg 10,000 TDZE N/A Arprt Elev 4350
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AL-5071 [USA]

MICHAEL AAF (KDPG)

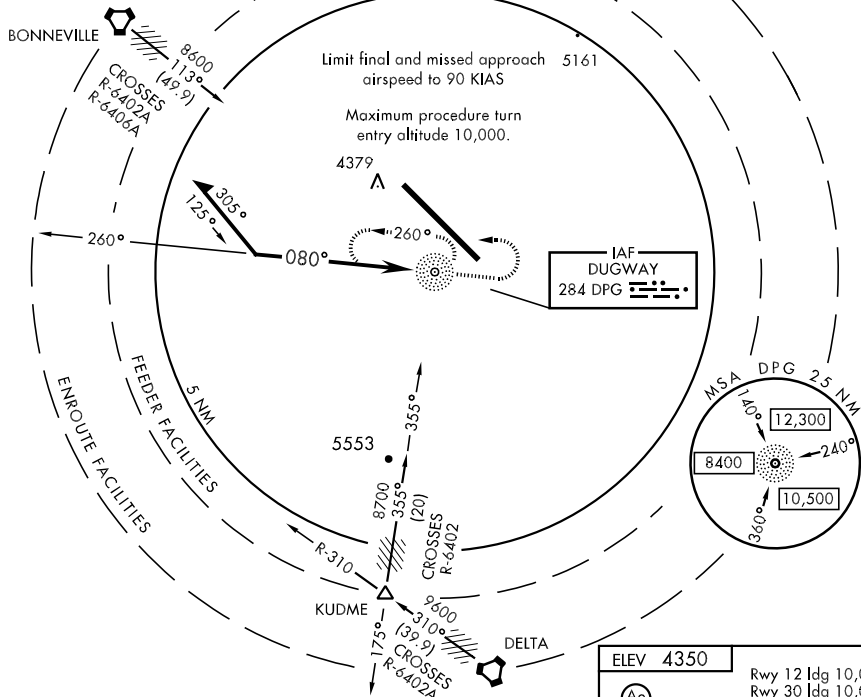
NA * Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.

MISSED APPROACH: Climbing left turn to 6500 in DPG NDB holding pattern.

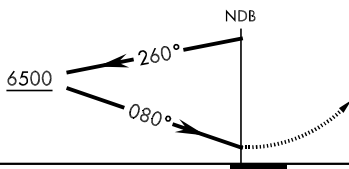
CLOVER CON
134.1 363.5

CTAF
126.2 270.3

Procedure lies within restricted areas, PPR.
Limit final and missed approach
airspeed to 90 KIAS.



Remain
within 5 NM
of DPG NDB



CATEGORY

COPTER

H-080°

5160-1 809 (900-1)

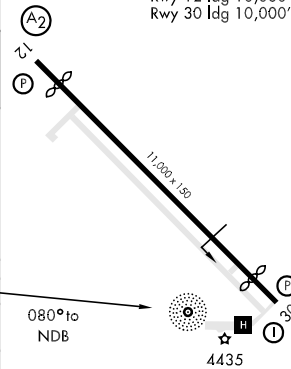
* WENDOVER ALTIMETER SETTING MINIMUMS

H-080°

5320-1 969 (1000-1)

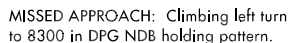
ELEV 4350

Rwy 12 Idg 10,000'
Rwy 30 Idg 10,000'

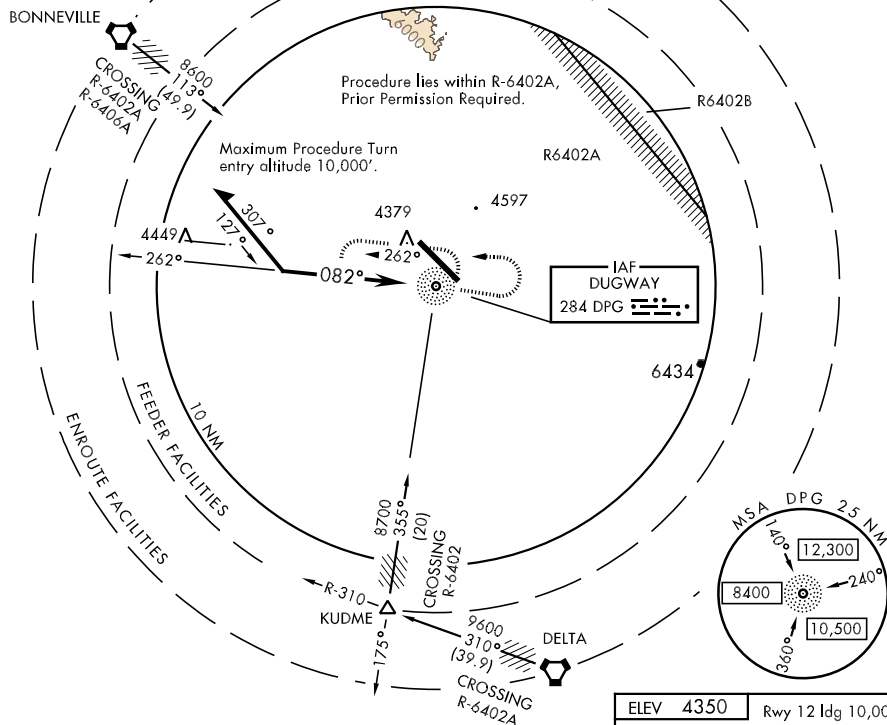


HIRL Rwy 12-30

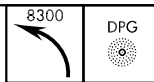
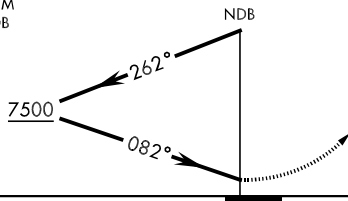
MICHAEL AAF (KDPPG)



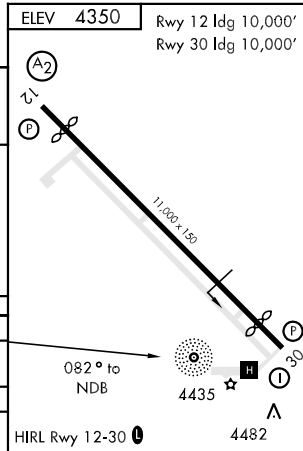
CTAF
126.2 270.3



Remain
within 10 NM
of DPG NDB



CATEGORY	A	B	C	D
CIRCLING	6000-1½ 1649 (1700-1½)	6000-1½ 1649 (1700-1½)	6000-3 1649 (1700-3)	
* WENDOVER ALTIMETER SETTING MINIMUMS				
CIRCLING	6160-1½ 1809 (1900-1½)	6160-1½ 1809 (1900-1½)	6160-3 1809 (1900-3)	



APCH CRS **122°** Rwy Ldg **10,000**
 TDZE **4342**
 Arpt Elev **4350**

AL-5071 [USA]

MICHAEL AAF (KDPG)



NA

* Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.

SALSF



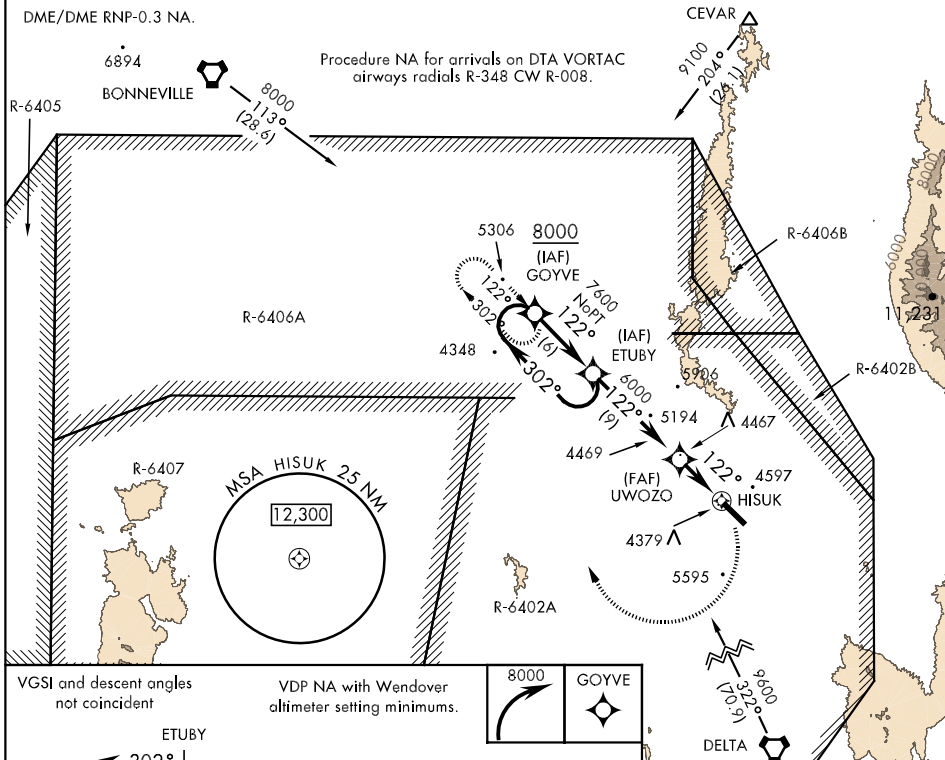
MISSED APPROACH: Climbing right turn to 8000 direct GOYVE and hold.

CLOVER CON
134.1 363.5

CTAF
126.2 270.3

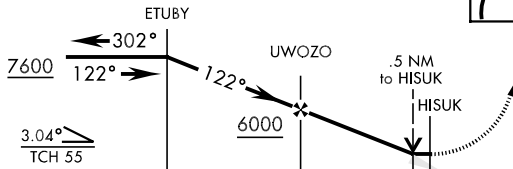
Procedure lies within R-6402A, PPR.

DME/DME RNP-0.3 NA.



VGS and descent angles not coincident

VDP NA with Wendover altimeter setting minima.

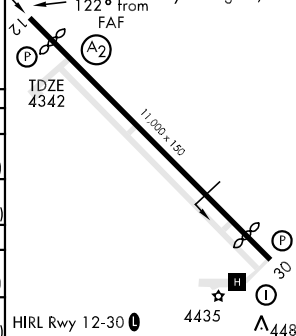


CATEGORY	A	B	C	D	E
LNAV MDA	4820-1 478 (500-1)	4820-1 478 (500-1)	4820-1 478 (500-1)	4820-1 478 (500-1)	5120-2 778 (800-2)
CIRCLING	4820-1 469 (500-1)	4820-1 469 (500-1)	4820-1 469 (500-1)	4920-2 569 (600-2)	5900-3 1549 (1600-3)

* WENDOVER ALTIMETER SETTING MINIMUMS

LNAV MDA	4980-1 638 (700-1)	4980-1 638 (700-1)	4980-2 638 (700-2)	5280-3 938 (1000-3)
CIRCLING	4980-1 629 (700-1)	4980-1 629 (700-1)	5060-2 709 (800-2)	6060-3 1709 (1800-3)

ELEV **4350** Rwy 12 Ldg **10,000'**
 Rwy 30 Ldg **10,000'**



APCH CRS **122°**
 Rwy Ldg **10,000'**
 TDZE **4342**
 Arpt Elev **4350**

AL-5071 [USA]

MICHAEL AAF (KDPG)



NA

* Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.

SALSF



† MISSED APPROACH: Climbing right turn to 8000 direct GOYVE and hold.

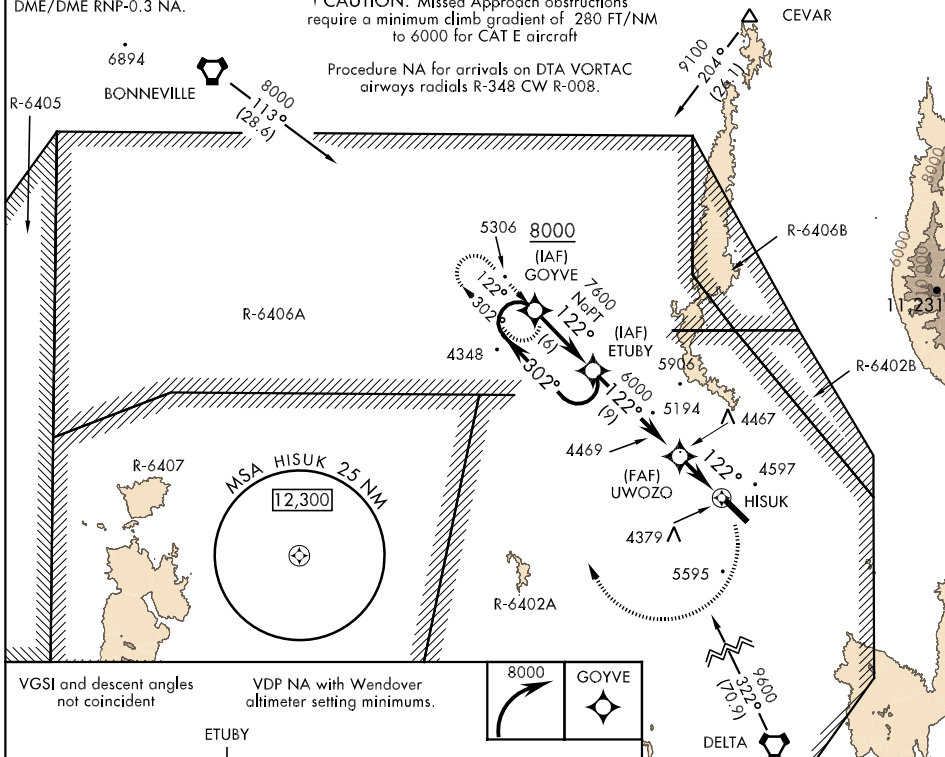
CLOVER CON
134.1 363.5

CTAF
126.2 270.3

Procedure lies within R-6402A, PPR.
 DME/DME RNP-0.3 NA.

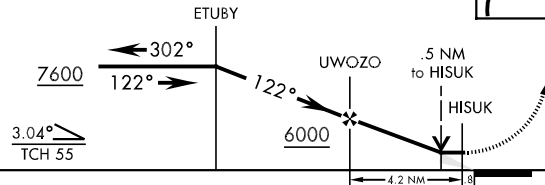
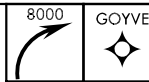
† CAUTION: Missed Approach obstructions require a minimum climb gradient of 280 FT/NM to 6000 for CAT E aircraft

Procedure NA for arrivals on DTA VORTAC airways radials R-348 CW R-008.

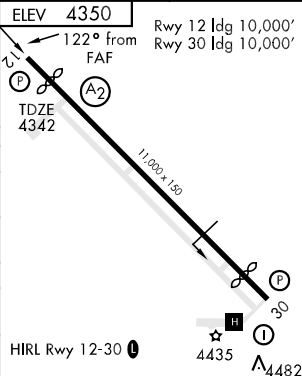


VGSI and descent angles not coincident

VDP NA with Wendover altimeter setting minimums.



CATEGORY	A	B	C	D	E
LNAV MDA	4820-1 478 (500-1)	4820-1 478 (500-1)	4820-1 478 (500-1)	4820-1 478 (500-1)	4820-1 478 (500-1)
CIRCLING	4820-1 469 (500-1)	4820-1 469 (500-1)	4820-1 469 (500-1)	4820-1 469 (500-1)	4820-1 469 (500-1)
* WENDOVER ALTIMETER SETTING MINIMUMS					
LNAV MDA	4980-1 638 (700-1)	4980-1 638 (700-1)	4980-1 638 (700-1)	4980-1 638 (700-1)	4980-1 638 (700-1)
CIRCLING	4980-1 629 (700-1)	4980-1 629 (700-1)	4980-1 629 (700-1)	4980-1 629 (700-1)	4980-1 629 (700-1)



TACAN Chan 79	MIJ 117°	APCH CRS 117°	Rwy ldg 10,000' TDZE 4342 Arpt Elev 4350
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AL-5071 [USA]

MICHAEL AAF (KDPG)

V * Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.

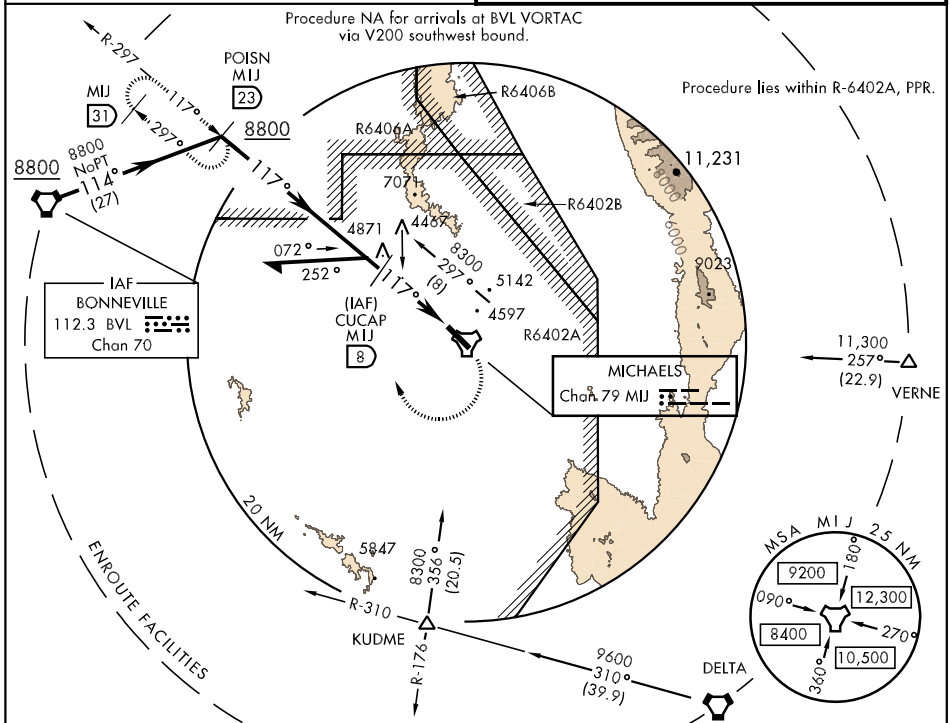
A NA

SALSF
(A2)

MISSED APPROACH: Climbing right turn to 8800 via MIJ TACAN R-297 to POISN/23 DME and hold.

CLOVER CON
134.1 363.5

CTAF
126.2 0 270.3



VGSI and descent angles not coincident.

CUCAP

(8)

Remain within 15 NM of CUCAP.

3.00°
TCH 55

8300
297°
117°
6500

8800
MIJ R-297
POISN MIJ **(23)**

ELEV 4350

Rwy 12 ldg 10,000'
Rwy 30 ldg 10,000'

ZUSAD
TACAN
(2)

117° to TACAN
(P) **(A2)**

TDZE 4342

11,000-130
112

4435

4482

HIRL Rwy 12-30 **(1)**

CATEGORY	A	B	C	D	E
S-12	4800-1 458 (500-1)		4800-1¼ 458 (500-1¼)	4800-1½ 458 (500-1½)	5220-3 878 (900-3)
CIRCLING	4800-1 449 (500-1)	4820-1 469 (500-1)	4820-1½ 469 (500-1½)	4920-2 569 (600-2)	5900-3 1549 (1600-3)
*WENDOVER ALTIMETER SETTING MINIMUMS					
S-12	4960-1 618 (700-1)		4960-1¼ 618 (700-1¼)	4960-2 618 (700-2)	5360-3 1018 (1100-3)
CIRCLING	4960-1 609 (700-1)		4960-1¼ 609 (700-1¼)	5060-2¼ 709 (800-2¼)	6060-3 1709 (1800-3)

TACAN MIJ APCH CRS Rwy ldg 10,000
Chan 79 117° TDZE 4342
Arprt Elev 4350

AL-5071 [USA]

MICHAEL AAF (KDPG)

▼ * Obtain local altimeter setting on CTAF; when
▲ NA not received, use Wendover altimeter setting.

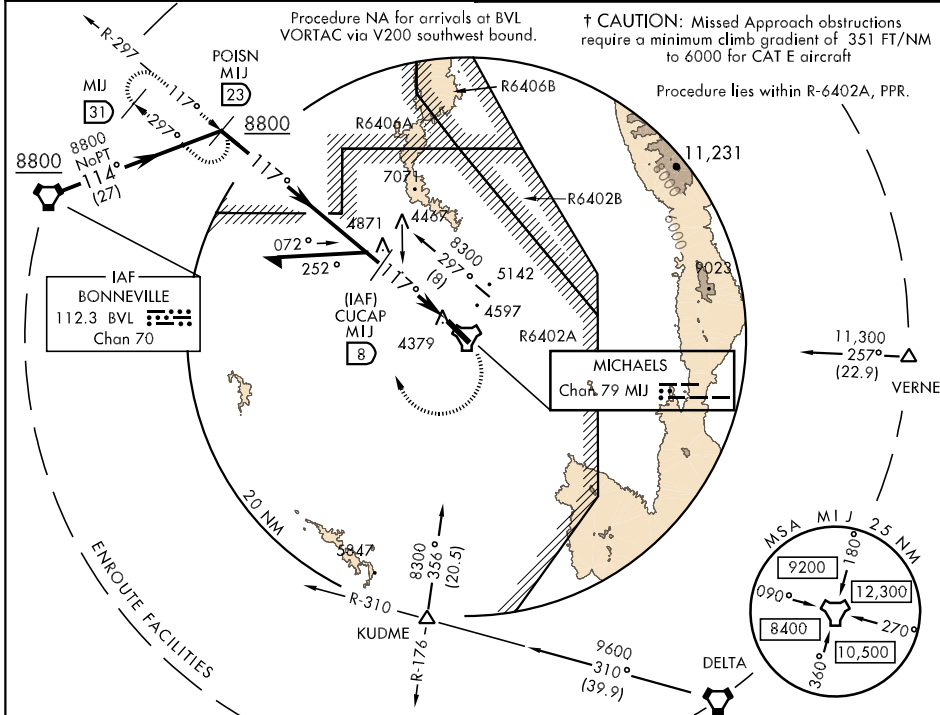
SALSF

(A2)

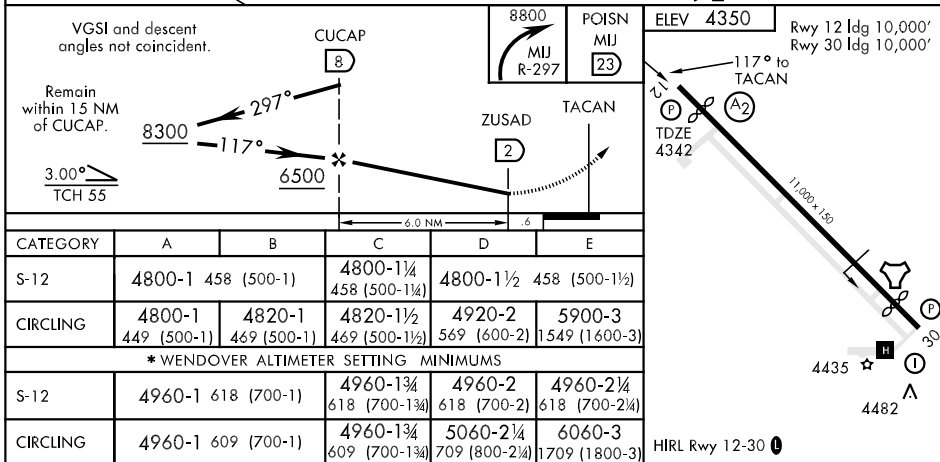
† MISSED APPROACH: Climbing right turn to 8800
via MIJ TACAN R-297 to POISN/23 DME and hold.

CLOVER CON
134.1 363.5

CTAF
126.2 270.3



SW-4, 14 JAN 2010 to 11 FEB 2010



DUGWAY PROVING GROUND, UTAH

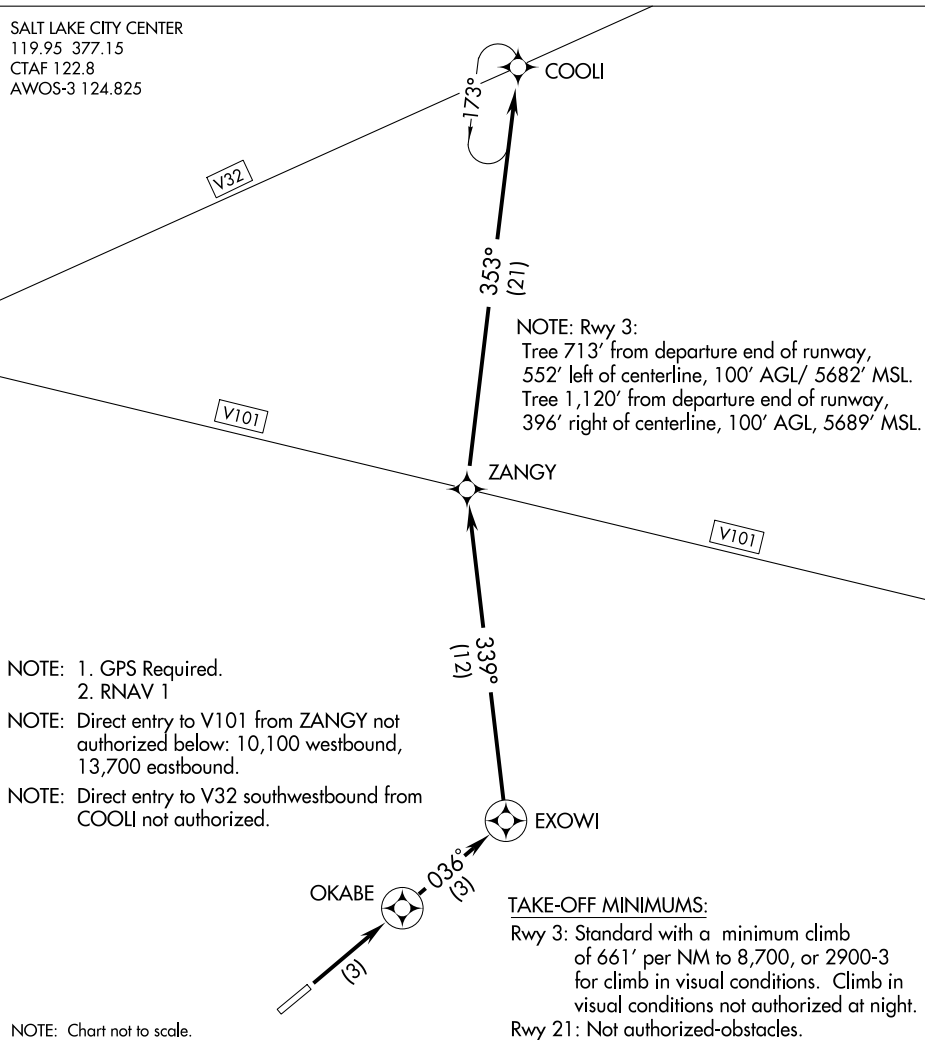
40°12'N-112°56'W

MICHAEL AAF (KDPG)

Amdt 1 09099

TACAN Z RWY 12

SALT LAKE CITY CENTER
119.95 377.15
CTAF 122.8
AWOS-3 124.825



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb to 12,000 (or assigned altitude) direct OKABE and 036° track to EXOWI, Then via depicted route to COOLI, thence...

or climb in visual conditions to cross departure end of runway northeastbound at or above 8,400 direct OKABE and 036° track to EXOWI, then via depicted route to COOLI, thence...

....climb in holding (if required) at COOLI before proceeding via assigned route.

APP CRS	Rwy Idg	N/A
176°	TDZE	N/A
	Apt Elev	5637

RNAV (GPS) -A

HEBER CITY MUNI-RUSS MCDONALD FIELD (36U)

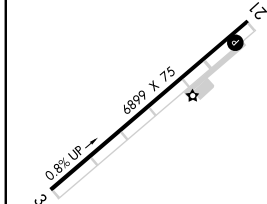
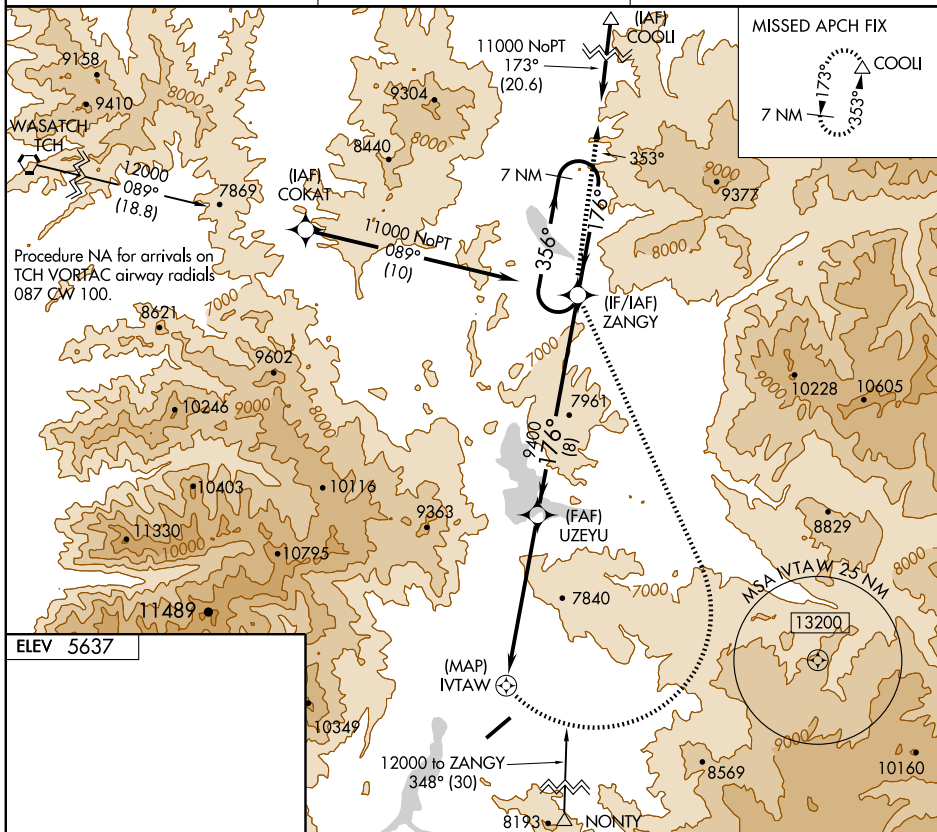
T	When local altimeter setting not received, procedure NA.
A NA	Circling NA south of Rwy 3-21. DME/DME RNP-0.3 NA. Procedure NA at night.

MISSED APPROACH: Climbing left turn to 12000 direct ZANGY and via track 353° to COOL and hold.

AWOS-3
124.825

SALT LAKE CITY CENTER
119.95 377.15

UNICOM
122.8 (CTAF) **L**

MIRL Rwy 3-21 **L**

CATEGORY

A

B

(

D

CIRCLING

8280-1½ 2643 (2700-1½)

NA

▼

Use Carbon County Rgnl/Buck Davis Field altimeter setting; when not received, procedure not authorized.

▲

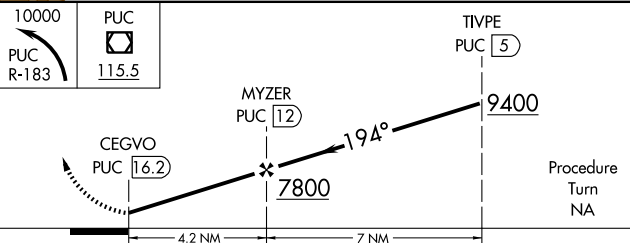
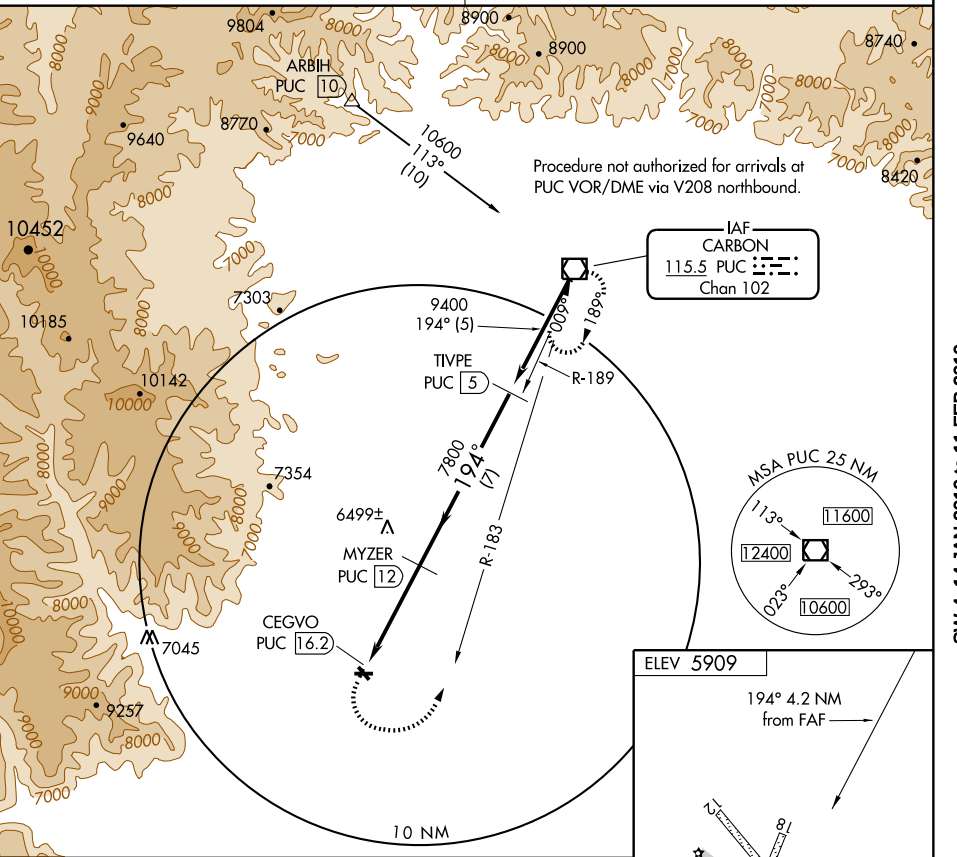
NA

Circling not authorized at night to Rwy 18, 36, 12, and 30.

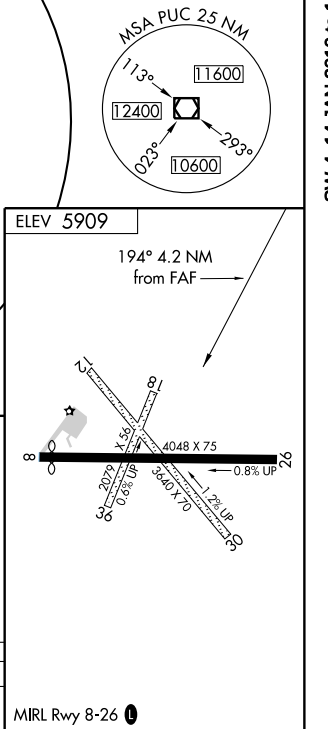
MISSED APPROACH: Climbing left turn to 10000 via PUC VOR/DME R-183 to PUC VOR/DME and hold.

SALT LAKE CENTER
133.9 370.85

UNICOM
122.8 (CTAF) 1

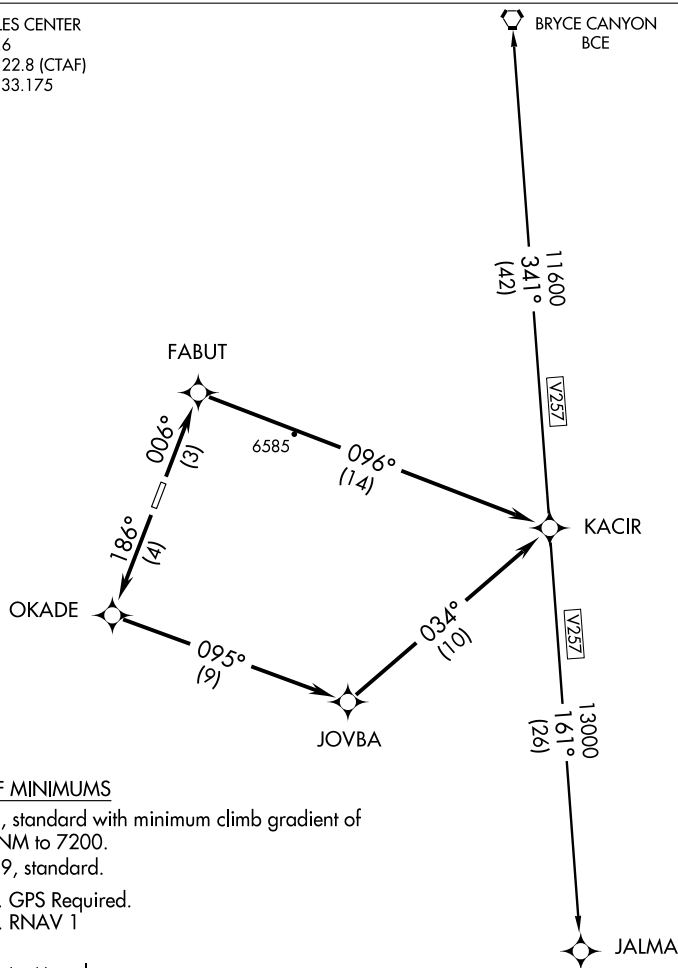


CATEGORY	A	B	C	D
CIRCLING	6620-1	711 (800-1)	6620-2 711 (800-2)	NA



SW-4, 14 JAN 2010 to 11 FEB 2010

LOS ANGELES CENTER
124.2 343.6
UNICOM 122.8 (CTAF)
AWOS-3 133.175



TAKE-OFF MINIMUMS

Runway 1, standard with minimum climb gradient of 316' per NM to 7200.

Runway 19, standard.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb via 006° course to FABUT WP, then via 096° course to KACIR WP, then via assigned transition/altitude.

TAKE-OFF RUNWAY 19: Climb via 186° course to OKADE WP, then via 095° course to JOVBA WP, then via 034° to KACIR WP, then via assigned transition/altitude.

BRYCE CANYON TRANSITION (KACIR1.BCE)

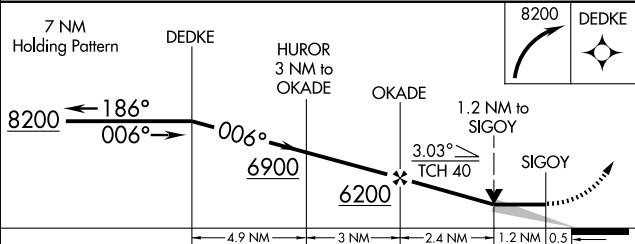
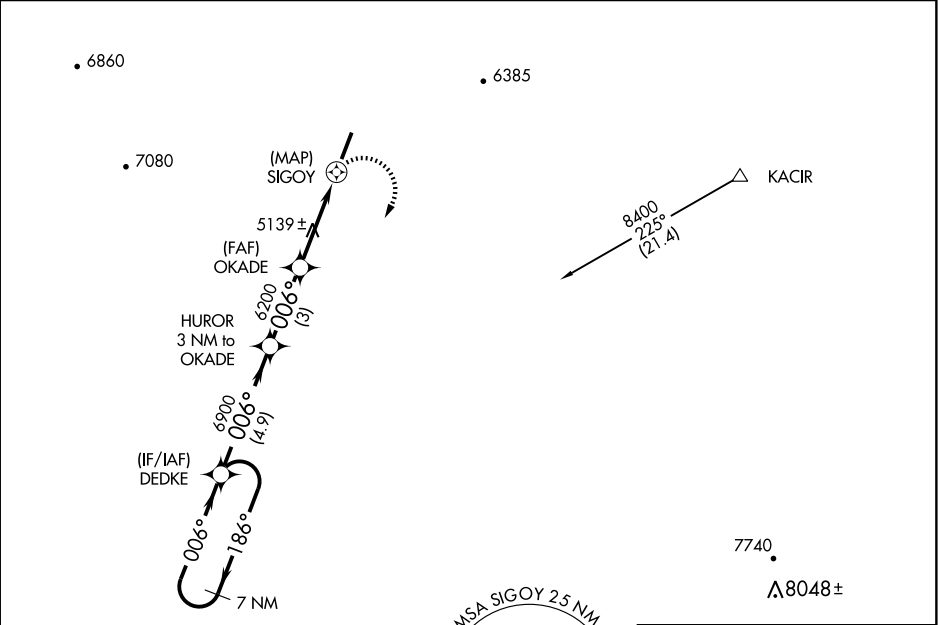
JALMA TRANSITION (KACIR1.JALMA)

APP CRS	Rwy Idg	6193
006°	TDZE	4831
	Apt Elev	4868

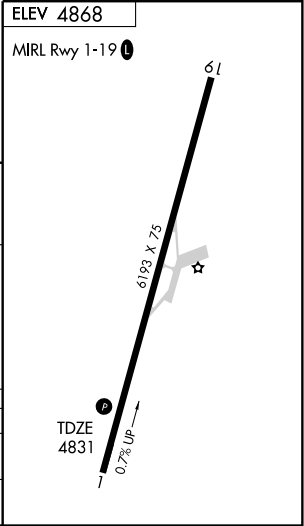
RNAV (GPS) RWY 1
KANAB MUNI (KNB)

DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 8200 direct DEDKE and hold.
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AWOS-3 133.175	LOS ANGELES CENTER 124.2 343.6	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
RNAV MDA	5400-1	569 (600-1)	5400-1½ 569 (600-1½)	NA
CIRCLING	5600-1 732 (800-1)	5960-1½ 1092 (1100-1½)	6200-3 1332 (1400-3)	NA



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min climb of 282' per NM to 7300 or 4700-3 for climb in visual conditions. **Rwy 12**, std. w/ a min climb of 386' per NM to 7600 or 4700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8200 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 12**, climb heading 122° and BAM R-076 to 10000 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 21**, climb direct BAM VORTAC and BAM R-205 to 10100 before proceeding on course. **Rwy 30**, climb heading 302° and BAM R-324 to 9100 before proceeding on course.

BEAVER, UT

BEAVER MUNI

TAKE-OFF MINIMUMS: **Rwys 7, 25**, NA-obstacles. **Rwys 13, 31**, 2600-2% for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb in visual conditions to cross Beaver Muni Airport Northwestbound at or above 8300 then climb to 10100 via MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210 KIAS until established on MLF VORTAC R-102.

NAME TAKE-OFF MINIMUMS

BLANDING, UT

BLANDING MUNI

TAKE-OFF MINIMUMS: **Rwy 35**, 800-1 or std. with a min. climb of 350 feet per NM to 6700.

DEPARTURE PROCEDURE: **Rwy 17**, turn left. **Rwy 35**, turn right climb to 9000 via heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

BRIGHAM CITY, UT

BRIGHAM CITY (BMC)

AMDT 5 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, std. w/ min. climb of 325' per NM to 5300 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn heading 205° and OGD R-331 to OGD VORTAC. **Rwy 34**, climbing left turn heading 205° and OGD R-331 to OGD VORTAC or for climb in visual conditions: cross Brigham City airport southbound at or above 9200 then via OGD R-351 to OGD VORTAC.

NOTE: **Rwy 16**, poles 266' from DER, 558' right of centerline, 30' AGL/4258' MSL.

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)
AMDT 1 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/a min. climb of 370' per NM to 1800, or 1700-3 for climb in visual conditions. **Rwy 34**, std. w/a min. climb of 495' per NM to 5500, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 164° and EED VORTAC R-334 to EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **Rwy 34**, climb via heading 344° to 1600, then climbing right turn direct EED VORTAC, or for climb in visual conditions: cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing via heading 155° and EED VORTAC R-335 to EED VORTAC. **All Aircraft** climb in EED VORTAC holding pattern (East, right turn, 257° inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 16**, multiple bushes beginning 3600' from DER, left of centerline, up to 12' AGL/1029' MSL.

Rwy 34, multiple poles beginning 2211' from DER, right of centerline, up to 105' AGL/821' MSL.

CARSON CITY, NV

CARSON (CXP)
ORIG 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 9**, use JIMPA
DEPARTURE.

CASA GRANDE, AZ

CASA GRANDE MUNI

DEPARTURE PROCEDURE: **Rwy 5**, right turn. **Rwy 23**, climb direct TFD VORTAC. Continue climb in holding pattern (SW, right turn, 048° inbound) to MEA for direction of flight.

CEDAR CITY, UT

CEDAR CITY RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 3500-3 or std. with a min. climb of 450' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 20, 26**, turn right.

Rwys 2, 8, turn left, climb direct to CDC VOR/DME, continue climb to 9000 via R-348. Northbound continue on course. All others reverse course, climb to cross CDC VOR/DME at or above MCA for direction of flight.

CHANDLER, AZ

CHANDLER MUNI

DEPARTURE PROCEDURE: **Rwy 4R**, climbing left turn heading 220°. **Rwys 22L, 22R**, climbing left turn heading 190°. **All Aircraft**, continue climb via TFD R-350 to TFD VORTAC.

NOTE: **Rwy 4L**, multiple towers and buildings beginning 69' from departure end of runway, 397' left of centerline, up to 80' AGL/1319' MSL.

CHANDLER, AZ (CON'T)

STELLAR AIRPARK

DEPARTURE PROCEDURE: **Rwy 17**, turn left, climb via heading 150°. **Rwy 35**, turn right. **All aircraft** climb via TFD R-350 direct TFD VORTAC.

NOTE: **Rwy 17**, tower and signs beginning 574' from departure end of runway, 183' right of centerline, up to 50' AGL/1124' MSL. Sign 611' from departure end of runway, 365' left of centerline, 42' AGL/1214' MSL.

COLORADO CITY, AZ

COLORADO CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwys 20, 29, turn left. **All aircraft** climb to 7400 via the 160° bearing from AZC NDB then continue climb on course.

COOLIDGE, AZ

COOLIDGE MUNI

DEPARTURE PROCEDURE: **Rwys 5, 35**, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course.

Rwy 17, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course. **Rwy 23**, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

DAVIS-MONTHAN AFB (KDMA)

TUCSON, AZ. 07186

Diverse departures not authorized, use published departure procedure for obstacle avoidance.

TAKE-OFF OBSTACLES: **Rwy 12**: Terrain 0' AGL/2707' MSL, 81' from DER, 500' left of centerline. Terrain 0' AGL/2707' MSL, 46' from DER, 512' left of centerline. Terrain 0' AGL/2707' MSL, 16' from DER, 500' left of centerline. Terrain 0' AGL/2706' MSL, 0' from DER, 200' left of centerline.

Rwy 30: Terrain 0' AGL/2592' MSL, 0' from DER, 106' left of centerline. Terrain 0' AGL/2592' MSL, 7' from DER, 97' left of centerline. Terrain 0' AGL/2592' MSL, 0' from DER, 484' right of centerline. Terrain 0' AGL/2592' MSL, 13' from DER, 493' right of centerline. Vehicle 11' AGL/2615' MSL, 1017' from DER, 477' left of centerline. Terrain 0' AGL/2612' MSL, 237' from DER, 590' left of centerline.

DELTA, UT

DELTA MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 412' per NM to 6600, or 1800-3 for climb in visual conditions. Climb in visual conditions NA at night. **Rwy 12**, NA-terrain. **Rwy 30**, NA-airspace.

DEPARTURE PROCEDURE: **Rwy 17**, climb via DTA VORTAC R-347 to DTA VORTAC, or climb in visual conditions to cross departure end of runway southbound at or above 6400, then via DTA VORTAC R-347 to DTA VORTAC, thence... **Rwy 35**, climb via heading 346° to 5800, then climbing left turn via heading 180° and DTA VORTAC R-310 to DTA VORTAC, thence... climb in holding pattern (hold south, left turn, 004° inbound) to cross DTA VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 17**, trees 1598' from departure end of runway, 62' right of centerline, 60' AGL/4799' MSL.

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL

DEPARTURE PROCEDURE: Climb to 5700 in holding pattern, right turn to 140 inbound DUG VORTAC, then assigned route. CAT C, D turbojets climb not to exceed 250 kts. to 8000.

DUCHESNE, UT

DUCHESNE MUNI

DEPARTURE PROCEDURE: Climb direct to MTU VORTAC to depart at or above 7200 eastbound or 10000 westbound.

ELKO, NV

ELKO RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. with a min. climb of 330' per NM to 8000. **Rwy 23**, 2500-3 or std. with a min. climb of 340' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 6000, then climbing right turn direct BQU VOR/DME, then...

Rwy 23, (V32 Southwest) climb to 6000, then climbing left turn heading 200° to intercept BQU R-241 (V32).

Rwy 23, all others climb runway heading to 6000, then climbing left turn direct BQU VOR/DME, then... climb in BQU VOR/DME holding pattern (S, left turns, 340° inbound) to cross BQU VOR/DME at the MEA/MCA/MOCA for direction of flight.

ELY, NV

ELY AIRPORT-YELLAND FIELD

TAKE-OFF MINIMUMS: **Rwys 30, 36**, 3000-2 or std. with a min. climb of 700' per NM to 10000.

DEPARTURE PROCEDURE: **Rwys 12, 30, 36**, right turn; **Rwy 18**, straight ahead; intercept . ELY VOR/DME R-150 to 10000. Aircraft departing on V293 southeast climb on course to MEA. Departures V269 or V293 northbound, reverse course to the left, continue climb to cross ELY VOR/DME at or above 12000.

FALLON, NV

FALLON MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 350' per NM to 4300.

DEPARTURE PROCEDURE: **Rwy 21**, turn right. **Rwys 3, 13, 31**, turn left. All departures climb via HZN R-075 to HZN VORTAC. Climb in holding pattern (W, right turns, 075° inbound) to depart HZN VORTAC at or above: R-240 CW R-149, 8000; R-150 CW R-239, 9000. Continue climb on course to MEA or assigned altitude.

FALLON NAS (KNFL)

FALLON, NV

Diverse departures not authorized.

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. Aircraft departing FLG R-160 CW R-175 climb on course. All others climb southbound on FLG R-172 to 9000, then climbing left turn direct FLG VOR/DME.

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF

TAKE-OFF MINIMUMS: **Rwy 21**, NA.

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

Rwys 26, 30, turn right. All aircraft climb to 9500 to TOMBS Int via FHU VOR R-019 or 018° bearing from DAO NDB.

GLENDALE, AZ

GLENDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 19**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 1**, Use DRAKE (RNAV) DEPARTURE.

GLOBE, AZ

SAN CARLOS APACHE (P13)

ADMT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use IZTRI DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR

TAKE-OFF MINIMUMS: **Rwy 3**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 21**, Use POTER DEPARTURE.

GRAND CANYON, AZ

GRAND CANYON NATIONAL PARK

TAKE-OFF MINIMUMS: **Rwy 3**, NA-environmental.

DEPARTURE PROCEDURE: **Rwy 21**, use GRAND DEPARTURE.

HEBER CITY, UT

HEBER CITY MUNI-RUSS MCDONALD FIELD

DEPARTURE PROCEDURE: **Rwy 3**, Use COOLI RNAV DEPARTURE.

HILL AFB (KHFI)

OGDEN, UT

Diverse departures not authorized, use radar vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT

HUNTINGTON MUNI (69V)

AMDT 2A 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 26, 36**, NA. **Rwy 30**, 1700-3 or std. with a min. climb of 300' per NM to 8100.

DEPARTURE PROCEDURE: **Rwys 8, 12**, climbing left turn direct PUC VOR/DME...

Rwy 30, climbing right turn direct PUC VOR/DME....

...continue climb in PUC VOR/DME holding pattern (hold S, right turns, 009° inbound) to MEA for direction of flight.

NOTE: **Rwy 8**, tree 2663' from DER, 922' left of centerline, 40' AGL/5979' MSL. **Rwy 12**, tree 333' from DER, 132' right of centerline, 40' AGL/5919' MSL.

Rwy 30, tree 2065' from DER, 875' left of centerline, 40' AGL/5999' MSL.



KANAB, UT**KANAB MUNI**

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 316' per NM to 7200.

NOTE: Use KACIR ONE RNAV DEPARTURE.

KINGMAN, AZ**KINGMAN**

TAKE-OFF MINIMUMS: **Rwys 3,17,21,35**, 800-1 or std. with a min. climb of 210' per NM to 7000.

DEPARTURE PROCEDURE: Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. If unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).

LAGUNA AAF (LGF)**YUMA PROVING GROUND, AZ (03247)**

Rwy 6, 18, 36 turn right, climb to 3600 direct BZA VORTAC.

Rwy 24 climb to 3600 direct to BZA VORTAC.

TAKE-OFF OBSTACLES:

Rwy 18: 386' (6' AGL) windsock, 818' from departure end of rwy, 194' left of centerline.

LAKE HAVASU CITY, AZ**LAKE HAVASU CITY**

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1½ or std. w/ min. climb of 278' per NM to 1200. **Rwy 32**, 600-1½ or std. w/ min. climb of 492' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight. **Rwy 32**, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, climb in EED VORTAC holding pattern (east, right turn, 257° inbound) to cross EED VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 14**, obstruction light on transmission tower, 1.2 NM from departure end of runway, 1885' left of centerline, 151' AGL/1027' MSL. Transmission tower 1.4 NM from departure end of runway, 1953' left of centerline, 145' AGL/1058' MSL. Bush 1080' from departure end of runway, 500' left of centerline, 31' AGL/ 825' MSL. Terrain 145' from departure end of runway, 347' left of centerline, 14' AGL/797' MSL. Bush 1256' from departure end of runway, 255' left of centerline, 35' AGL/818' MSL. **Rwy 32**, obstruction light on transmission tower 4052' from departure end of runway, 932' right of centerline, 180' AGL/974' MSL. Transmission tower 2504' from departure end of runway, 1009' right of centerline, 112' AGL/903' MSL.

LAS VEGAS, NV**HENDERSON EXECUTIVE**

TAKE-OFF MINIMUMS: **Rwy 17L/R**, Cat A/B std. with a min. climb of 491' per NM to 6000, or 2100-3 for climb in visual conditions, Cat C/D NA. **Rwy 35L/R**, Cat A/B std. with a min. climb of 312' per NM to 4700, or 2100-3 for climb in visual conditions, Cat C/D NA.

DEPARTURE PROCEDURE: **Rwy 17L/R**, climbing right turn via LAS R-157 to LAS VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC. **Rwy 35L/R**, climbing right turn via BLD R-257 to BLD VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC.

NOTE: **Rwy 17L**, tree 5610' from departure end of runway, 82' left of centerline, 100' AGL/2739' MSL. Tree 1.9 miles from departure end of runway, 1495' left of centerline, 100' AGL/2859' MSL. **Rwy 17R**, tree 4041' from departure end of runway, 859' left of centerline, 100' AGL/2739' MSL.

MCCARRAN INTL (KLAS)

TAKE-OFF MINIMUMS: **Rwy 25R**, 200-1 or std. with a min. climb of 220' per NM to 2400.

DEPARTURE PROCEDURE: **Rwys 1L, 1R**, climbing right turn direct BLD VORTAC. **Rwys 7L, 7R**, climb via heading 075° to 3400 then climbing right turn direct BLD VORTAC. **Rwys 19L, 19R**, climbing left turn via heading 120° and BLD VORTAC R-257 to BLD VORTAC. **Rwys 25L, 25R**, climb via heading 255° to 2700 then climbing right turn direct BLD VORTAC.

NOTE: **Rwy 1L**, multiple poles, tree, and building 450' from departure end of runway, 283' left of centerline, up to 174' AGL/2132' MSL. Obstruction light on WSK 248' from departure end of runway, 224' right of centerline, 15' AGL/2104' MSL. **Rwy 1R**, multiple sign and building 1331' from departure end of runway, 448' right of centerline, up to 100' AGL/2120' MSL. **Rwy 7L**, multiple poles and trees 747' from departure end of runway, 442' right of centerline, up to 62' AGL/2062' MSL. Tree 1257' from departure end of runway, 789' left of centerline, 65' AGL/2077' MSL. **Rwy 7R**, lighted WSK 126' from departure end of runway, 290' right of centerline, 25' AGL/2051' MSL. **Rwy 19L**, multiple poles, sign and building 1394' from departure end of runway, 320' right of centerline, up to 51' AGL/2256' MSL. **Rwy 19R**, multiple poles, sign, and building 197' from departure end of runway, 125' right of centerline, up to 51' AGL/ 2256' MSL. Multiple pole and building 1396' from departure end of runway, 356' left of centerline, up to 47' AGL/2262' MSL. **Rwy 25L**, multiple poles, sign, and building 1003' from departure end of runway, 251' left of centerline, up to 63' AGL/2256' MSL. **Rwy 25R**, multiple poles and road 675' from departure end of runway, 17' right of centerline, up to 100' AGL/2301' MSL. Multiple poles and buildings 533' from departure end of runway, 1' left of centerline, up to 150' AGL/2469' MSL.

NORTH LAS VEGAS (VGT)**AMDT 3 08045 (FAA)**

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.



LOGAN, UT

LOGAN-CACHE (LGU)

AMDT 8 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10,28**, NA-obstacles.DEPARTURE PROCEDURE: **Rwys 17, 35**, use

ORNEY DEPARTURE.

LOVELOCK, NV

DERBY FIELD (LOL)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 2300-2 or std. with a min. climb of 300' per NM to 6200. **Rwy 7**, 1100-1 or std. with a min. climb of 250' per NM to 5000. **Rwys 19, 25**, 2300-2 or std. with a min. climb of 260' per NM to 6200.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

Rwys 7, 19, 25, turn left, climb direct LLC VORTAC. Aircraft departing 330° CW 359° climb via LLC R-333 to ROBUD INT; 360° CW 089° climb in LLC VORTAC holding pattern (hold NW, left turns, 153° inbound) to depart LLC VORTAC at or above 8600; 090° CW 219° climb on course; 220° CW 329° climb in LLC VORTAC holding pattern to depart LLC VORTAC at or above 8600. Continue climb on course to MEA or assigned altitude.

LUKE AFB (KLUF)

GLENDALE, AZ AMDT 3, 09183

Diverse departures not authorized.

Use published DP, if unable to comply with DP notify clearance delivery and request RADAR Vectors.

TAKE-OFF OBSTACLES:

RWY 3L: Taxiing aircraft, 19' AGL/1126' MSL, 1221' from DER, 782' left of centerline. Taxiing aircraft, 19' AGL/1126' MSL, 1407' from DER, 609' left of centerline. Weather equipment, 15' AGL/1117' MSL, 759' from DER, 505' right of centerline. Weather equipment, 15' AGL/1117' MSL, 1209' from DER, 505' right of centerline. Building, 20' AGL/1127' MSL, 1620' from DER, 925' left of centerline.

RWY 21L: Taxiing aircraft, 38' AGL/1120' MSL, 1428' from DER, 774' left of centerline.

MESA, AZ

FALCON FIELD

TAKE-OFF MINIMUMS: **Rwys 4L, 4R**, std. with a min. climb of 459' per NM to 3600, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4L, 4R**, climbing left turn to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound. For climb in visual conditions cross FFZ NDB at or above 2300 then proceed via 220° bearing to PXR R-143 southeast bound. **Rwy 22L, 22R**, climb to 5000 via 220° bearing from FFZ NDB to intercept the PXR VORTAC R-143 southeast bound.

NOTE: **Rwy 4L**, light standard 416' from departure end of runway, 415' left of centerline, 48' AGL/1428' MSL.

Obstacle light on building 1313' from departure end of runway, 424' left of centerline, 54' AGL/1434' MSL. **Rwy 4R**, light standard 514' from departure end of runway, 565' right of centerline, 48' AGL/1441' MSL. Tree 1097' from departure end of runway, 650' right of centerline, 50' AGL/1448' MSL. Tree 1060' from departure end of runway, 359' right of centerline, 50' AGL/1451' MSL.

Rwy 22L, light pole 254' from departure end of runway, 538' right of centerline, 13' AGL/1382' MSL. Windmill 691' from departure end of runway, 528' right of centerline, 30' AGL/1389' MSL. Windmill 715' from departure end of runway, 603' right of centerline, 30' AGL/1389' MSL. Light pole 68' from departure end of runway, 764' right of centerline, 13' AGL/1382' MSL. Tree 175' from departure end of runway, 826' right of centerline, 13' AGL/1383' MSL. **Rwy 22R**, light pole 296' from departure end of runway, 541' right of centerline 13' AGL/1400' MSL. Light pole 495' from departure end of runway, 187' right of centerline, 13' AGL/1382' MSL. Light pole 594' from departure end of runway, 65' right of centerline, 13' AGL/1382' MSL.

MESQUITE, NV

MESQUITE

TAKE-OFF MINIMUMS: **Rwy 1**, 900-3, or std. with a min. climb of 620' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn, **Rwy 19**, climbing right turn. All aircraft climb direct MMM VORTAC. Aircraft departing MMM R-149 CW R-220 climb on course. All others continue climb via MMM R-196 to 6100 and reverse course to cross MMM VORTAC at or above: R-221 CW R-270 and R-331 CW R-060, 6100; R-271 CWR-330, 7300; R-061 CW R-150, 8300.

MICHAEL AAF (KDPG),

DUGWAY PROVING GROUND, UT

.....Amdt 1, 09099
Rwy 12, 4700-3*

*Or standard with minimum climb of 305 ft/NM to 6100.

DEPARTURE PROCEDURES: **Rwy 12** Climb via heading 122° to 6100, then right turn direct DPG NDB. Continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course, or for climb in visual conditions: Cross Michael AAF, Dugway Proving Ground at or above 8900 before proceeding on course. **Rwy 30** Climb via heading 302° to 6100 then left turn direct DPG NDB, continue climb in DPG NDB holding pattern (Hold W, LT, 080° inbound) to 9600 before proceeding on course.



MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE
FIELD

TAKE-OFF MINIMUMS: **Rwy 34**, CAT A,B 1200-2 or std. with a min. climb of 360' per NM to 6500. CAT C,D NA.
DEPARTURE PROCEDURE: **Rwy 16**, climb direct MLF VORTAC. **Rwy 34**, climbing left turn direct MLF VORTAC. Aircraft departing MLF R-170 CW R-210 climb on course. All other aircraft continue climb southbound via MLF R-190 to 7600, then climbing right turn to cross MLF VORTAC at or above 9000, then climb on course.

MINDEN, NV

MINDEN-TAHOE

TAKE-OFF MINIMUMS: **Rwys 12,16,30**, NA. **Rwy 34**, 4000-3 or std. with a min. climb of 531' per NM to 8700.
DEPARTURE PROCEDURE: **Rwy 34**, use MINDEN RNAV DEPARTURE.

MOAB, UT

CANYONLANDS FIELD

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 320' per NM to 5800. **Rwy 21**, std. with a min. climb of 330' per NM to 5400.

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwy 21**, turn right climb to 6700 via OAB R-293, then climbing right turn direct OAB VOR/DME. Climb in OAB holding pattern (NW, left turns, 113° inbound) to 10000 then proceed on course.

NOTE: **Rwy 3**, tree 4383' from departure end of runway, 1507' right of centerline, 50' AGL/4729' MSL. Road 1749' from departure end of runway, 905' left of centerline, 15' AGL/4635' MSL. Tree 3914' from departure end of runway, 1166' right of centerline, 50' AGL/4690' MSL. Tree 1.25 NM from departure end of runway, 400' right of centerline, 50' AGL/4758' MSL.

Rwy 21, pole 2026' from departure end of runway, 78' right of centerline, 80' AGL/4625' MSL. Pole 2061' from departure end of runway, 40' right of centerline, 80' AGL/4625' MSL. Pole 2095' from departure end of runway, 857' right of centerline, 80' AGL/4623' MSL. Pole 1980' from departure end of runway, 344' right of centerline, 80' AGL/4602' MSL.

NELLIS AFB (KLSV)

LAS VEGAS, NV

08241

Rwy 3L/R, 10,200-3' SR-SS

Rwy 21L/R, 10,200-3' SR-SS

Diverse departure not authorized.

MILITARY: Use published DP, if unable to comply with

DP climb gradient file appropriate DP for intended

destination and notify clearance delivery and request

RADAR Vectors (Climb Gradient of 300' per NM until

12,000 for RADAR Vectors). If unable to comply with

RADAR Vector climb gradient, A/C must depart VFR.

* CIVIL: Use published DP, if unable to comply with DP

climb gradient file appropriate DP for intended

destination and notify clearance delivery and request

RADAR Vectors (Climb Gradient of 330' per NM until

12,000 for RADAR Vectors). If unable to comply with

RADAR Vectors climb gradient, A/C may use published

weather minimums or depart VFR.

TAKE-OFF OBSTACLES: **RWY 3L**: Terrain 0' AGL/

1870' MSL, 0' inward of DER, 500' left of centerline.

Road 15' AGL/1934' MSL, 1321' from DER, 802' left of

centerline. **RWY 3R**: C-5 on taxiway 65' AGL/1936'

MSL, 1345' from DER, 822' right of centerline. Road

15' AGL/2014' MSL, 3929' from DER, 1404' right of

centerline. **RWY 21L**: Trees 90' AGL/1949' MSL, 4594'

from DER, 1596' right of centerline. Trees 90' AGL/

1949' MSL, 4940' from DER, 541' right of centerline.

Trees 60' AGL/1899' MSL 929' from DER, 724' left of

centerline. Trees 60' AGL/1899' MSL, 946' from DER,

626' left of centerline. Trees 60' AGL/1899' MSL, 2720'

from DER, 341' left of centerline. Trees 60' AGL/1899'

MSL, 2514' from DER, 403' left of centerline.

RWY 21R: Terrain 0' AGL/1835' MSL, 0' inward of DER,

500' right of centerline. Trees 90' AGL/1949' MSL, 4594'

from DER, 597' right of centerline. Building 45' AGL/

1904' MSL, 2274' from DER, 1037' right of centerline.

Road 15' AGL/1874' MSL, 1404' from DER, 465' right of

centerline.

NOGALES, AZ

NOGALES INTL (OLS)

AMDT 2 09351 (FAA)

TAKE-OFF MINIMUMS: Use NOGALES DEPARTURE.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,16**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwys 3, 21, 25, 34**, Use

EMONT DEPARTURE.

PAGE, AZ

PAGE MUNI (PGA)
AMDT 2 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25**, NA—obstacles

Rwy 15, 300-1 or std. w/ min. climb of 252' per NM to 6500, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climb via 157° heading to 6000, then climbing right turn to PGA VOR/DME. cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA, or climb in visual conditions: cross Page airport at or above 6100, before proceeding on course. **Rwy 33**, climb via 337° heading to 6000, then climbing left turn to PGA VOR/DME. Cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold NW, right turns, 147° inbound) to airway MEA.

NOTE: **Rwy 15**, terrain 192' from departure end of runway, 274' right of centerline, 4323' MSL, tree 1.07 NM from departure end of runway, 167' left of centerline, 4519 MSL, transmission lines 1.96 NM from departure end of runway, 825' left of centerline, 100' AGL/4519' MSL, power line 4.00 NM from departure end of runway, 3606' right of centerline, 75' AGL/4819' MSL, power line 4.35 NM from departure end of runway, 3968' right of centerline, 75' AGL/4919' MSL, power line 5.36 NM from departure end of runway, 5039' right of centerline, 75' AGL/5119' MSL, power line 4.51 NM from departure end of runway, 4136' right of centerline, 75' AGL/5019' MSL, tree 4.52 NM from departure end of runway, 1508' right of centerline, 100' AGL/5173' MSL, AAO 4.58 NM from departure end of runway, 1617' right of centerline, 200' AGL/5187' MSL, AAO 5.15 NM from departure end of runway, 4456' left of centerline, 200' AGL/5190' MSL, tree 5.56 NM from departure end of runway, 4097' right of centerline, 30' AGL/5249' MSL, AAO 5.98 NM from departure end of runway, 653' left of centerline, 200' AGL/5440' MSL.

PARKER, AZ

AVI SUQUILLA

TAKE-OFF MINIMUMS: **Rwy 1**, 800-1½. **Rwy 19**, 300-1.

DEPARTURE PROCEDURE: **Rwy 19**, right turn. **Rwy 1**, left turn. Climb via R-067 to PKE VORTAC, to cross above 4500. Continue climb on course to MEA or assigned altitude.

PAYSON, AZ

PAYSON

TAKE-OFF MINIMUMS: **Rwy 6**, std. with a min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions. **Rwy 24**, std. with a min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 6, 24**, for climb in visual conditions: Cross Payson Airport at or above 7500, then proceed on course.

NOTE: **Rwy 24**, bush 15' from departure end of runway, 133' right of centerline, 6' AGL/5148' MSL. Tree 320' from departure end of runway, 183' right of centerline, 12' AGL/5154' MSL. Fence 85' from departure end of runway, 84' left of centerline, 4' AGL/5141' MSL. Tree 164' from departure end of runway, 126' left of centerline, 9' AGL/5147' MSL.

PHOENIX, AZ

PHOENIX-DEER VALLEY

DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.

PHOENIX SKY HARBOR INTL (PHX)

AMDT 4A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. with a min. climb of 358' per NM to 2000.

DEPARTURE PROCEDURE: **Rwys 7L, 7R, 8**, climb via 078° heading to 3000, then climbing right turn direct PHOENIX (PXR) VORTAC. **Rwys 25L, 25R**, climb via 258° heading to 1550 then climbing right turn to join the PXR R-260 (V16) westbound, climb to 5000. **Rwy 26**, climb via 258° heading to 1550 then climbing left turn to join the PXR R-260 (V16) westbound, climb to 5000. Westbound departures continue climb on PXR R-260. All others, climbing right turn direct PXR VORTAC.

NOTE: **Rwy 7L**, building 1332' from DER, 798' left of centerline, 67' AGL/1176' MSL. **Rwy 7R**, rod 716' from DER, 184' right of centerline, 87' AGL/1196' MSL. **Rwy 8**, light standard 3530' from DER, 1207' left of centerline, 123' AGL/1232' MSL. Light standard 3479' from DER, 1003' left of centerline, 118' AGL/1227' MSL. **Rwy 25L**, light standard 1129' from DER, 774' left of centerline, 91' AGL/1200' MSL. ASDE-X equipment 411' from DER, 531' left of centerline, 29' AGL/1135' MSL.

Rwy 26, light 59' from DER, 63' right of centerline, 16' AGL/1125' MSL. Pole 58' from DER, 90' right of centerline, 25' AGL/1125' MSL. Light 78' from DER of runway, 64' right of centerline, 18' AGL/1127' MSL. Light 38' from DER, 440' left of centerline, 24' AGL/1135' MSL. Light standard 77' from DER, 453' left of centerline, 27' AGL/1136' MSL. Light standard 74' from DER, 456' right of centerline, 33' AGL/1142' MSL. Light standard 77' from DER, 434' right of centerline, 31' AGL/1140' MSL. Tree 113' from DER, 294' right of centerline, 24' AGL/1133' MSL. Building 2.32 NM from DER, 3309' right of centerline, 406' AGL/1496' MSL. Building 2.28 NM from DER, 3612' right of centerline, 663' AGL/1750' MSL. Tree 234' from DER, 214' right of centerline, 24' AGL/1133' MSL. Light standard 64' from DER, 68' left of centerline, 39' AGL/1125' MSL. ASDE-X equipment 897' from DER, 413' right of centerline, 35' AGL/1141' MSL.

PHOENIX-MESA GATEWAY

TAKE-OFF MINIMUMS: **Rwys 30L, 30C, 30R**, CAT C, D E 2000-2 or std. with a min. climb of 230' per NM to 3900.

DEPARTURE PROCEDURE: **Rwys 12L, 12C, 12R**, climb to 2500 via IWA R-122 then climbing right turn direct PXR VORTAC. **Rwys 30L, 30C, 30R**, climbing right turn to 4000 via IWA R-122 then climbing right turn direct PXR VORTAC.



PRESCOTT, AZ

ERNEST A. LOVE FIELD

TAKE-OFF MINIMUMS: **Rwy 12**, 2700-2 or std. with a min. climb of 460' per NM to 8100. **Rwy 21L**, 2700-2 or std. with a min. climb of 500' per NM to 8100. **Rwy 30**, 3000-1 or std. with a min. climb of 300' per NM to 5200. **Rwy 3L, 21R**, NA.

DEPARTURE PROCEDURE: **Rwy 3R**, turn left heading 250° to intercept DRK R-305. **Rwy 12**, turn right direct DRK VORTAC. **Rwy 21L**, turn right heading 335° to intercept DRK R-305. **Rwy 30**, climb direct DRK VORTAC. **All aircraft** continue climb via DRK R-305 to 9000. Aircraft departing via DRK R-305 continue climb on course. All other aircraft turn right direct DRK VORTAC then climb on course.

RENO, NV

RENO/STEAD (RTS)

AMDT 3A 09183 (FAA)

TAKE-OFF MINIMUMS: CAT A,B only, CAT C,D NA. **Rwys 8,14**, 1300-2 or std. with a min. climb of 400' per NM to 6500. **Rwy 26**, 1900-2 or std. with a min. climb of 410' per NM to 7200. **Rwy 32**, 2300-2 or std. with a min. climb of 420' per NM to 7200.

DEPARTURE PROCEDURE: **Rwys 8,32**, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC. **Rwy 14**, left turn climb direct FMG VORTAC. **Rwy 26**, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC. **All aircraft** climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CWR-170 at or above 10000; R-171 CWR-195 at or above 10500; R-196 CWR-259 at or above 12000.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FLD (PUC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - per flight check **Rwy 32**, std. w/ min. climb of 425' per NM to 7000, or 3400-3 for climb in visual conditions. **Rwy 36**, std. w/ min. climb of 400' per NM to 7200, or 3400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 126° CW to 193°, thence... **Rwy 18**, climb on a heading between 192° CCW to 125°, thence... **Rwy 25**, climb on a heading between 176° CCW to 124°, thence... **Rwy 32**, climb to 7000 then climbing left turn on a heading between 175° CCW to 145°, thence... **Rwy 36**, climb to 6400 then climbing right turn on a heading between 141° CW to 184°, maintain 210K until completion of turn, thence... continue climb to assigned altitude for direction of flight. **Rwys 32, 36**, for climb in visual conditions cross Carbon County Rgnl/ Buck Davis Field at or above 9200 before proceeding on course.

NOTE: **Rwy 14**, multiple trees beginning 121' from DER, 3' left of centerline, up to 40' AGL/5839' MSL. **Rwy 25**, trees 515' from DER, 535' right of centerline, up to 40' AGL/5879' MSL. **Rwy 32**, trees 9544' from DER, 1644' left of centerline, up to 40' AGL/6900' MSL. Trees 11332' from DER, 74' right of centerline, up to 40' AGL/6800' MSL. **Rwy 36**, poles 2599' from DER, 615' left of centerline, 40' AGL/6079' MSL. Poles 2715' from DER, 668' right of centerline, 59' AGL/6098' MSL.

PROVO, UT

PROVO MUNI

DEPARTURE PROCEDURE: Use PROVO
DEPARTURE.

14 JAN 2010 to 11 FEB 2010



RENO, NV (CON'T)

RENO/TAHOE INTL (RNO)

AMDT 4 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA-terrain. **Rwy 16L**, std. w/ min. climb of 730' per NM to 8000, or 600-1½ w/ min. climb of 480' per NM to 8000, or 2700-3 for climb in visual conditions. **Rwy 16R**, std. w/ the following minimum climb requirements: 210 knots or less, 385' per NM to 8000; more than 210 knots, 420' per NM to 8900, or 2700-3 for climb in visual conditions. Resume normal speed after passing FMG VORTAC. **Rwy 25**, std. w/ min. climb of 470' per NM to 7800, or 2700-3 for climb in visual conditions. **Rwy 34L**, std. w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions. **Rwy 34R**, std. w/ min. climb of 480' per NM to 7000, or 500-1½ w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 16L/R**, climb heading 164° to 6600 then climbing left turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwy 25**, climb heading 254° to 5000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence... **Rwys 34L/R**, climb heading 344° to 7000 then climbing right turn direct FMG VORTAC, thence... or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence...

... **All aircraft**: continue climb in FMG VORTAC holding pattern (northeast, left turn, 221° inbound) to cross FMG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 16L**, multiple poles, trees, bushes and terrain beginning 618' from departure end of runway, 133' left of centerline, up to 20' AGL/4961' MSL. **Rwy 16R**, multiple trees 2784' from departure end of runway, 171' right of centerline, up to 20' AGL/4510' MSL. Multiple trees and terrain beginning 746' from departure end of runway, 380' left of centerline, up to 20' AGL/4703' MSL. **Rwy 25**, multiple trees and poles beginning 829' from departure end of runway, 201' right of centerline, up to 103' AGL/4523' MSL. Building 6023' from departure end of runway, 456' right of centerline, 152' AGL/4608' MSL. Fence 222' from departure end of runway, 270' right of centerline, up to 5' AGL/4415' MSL. Multiple trees and poles beginning 500' from departure end of runway, 31' left of centerline, up to 20' AGL/4506' MSL. **Rwy 34L**, multiple trees and poles beginning 1229' from departure end of runway, 180' right of centerline, up to 20' AGL/4498' MSL. Multiple trees beginning 1193' from departure end of runway, 331' left of centerline, up to 20' AGL/4489' MSL. **Rwy 34R**, multiple trees and poles beginning 1067' from departure end of runway, 172' right of centerline, up to 20' AGL/4497' MSL. Multiple trees and poles beginning 1230' from departure end of runway, 350' left of centerline, up to 20' AGL/4498' MSL. Building 1.2 NM from departure end of runway, 1730' right of centerline, 363' AGL/4780' MSL.

RICHFIELD, UT

RICHFIELD MUNI (RIF)

AMDT 1 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, use RICHFIELD (RNAV) DEPARTURE. **Rwy 19**, use HAMET (RNAV) DEPARTURE.

ROOSEVELT, UT

ROOSEVELT MUNI

TAKE-OFF MINIMUMS: **Rwy 25**, 700-3 or std. with a min. climb of 300' per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 7**, turn right.

Rwy 25, turn left. **All aircraft**, climb direct MTU VORTAC. Aircraft departing MTU VORTAC R-040 CW R-150, climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VORTAC; R-151 CW R-290 at or above 8000; R-291 CW R-039 at or above 10,000. Then climb on course.

SAFFORD, AZ

SAFFORD RGNL

TAKE-OFF MINIMUMS: IFR departure not authorized.

ST. GEORGE, UT

ST. GEORGE MUNI

TAKE-OFF MINIMUMS: **Rwy 34**, 1500-2 or std. with a min. climb of 325' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 16**, turn left. **Rwy 34**, turn right. Climb in OZN VOR/DME holding pattern (hold SE, right turns, 296 inbound) to depart OZN VOR/DME at or above MEA for direction of flight.

ST. JOHNS, AZ

ST. JOHNS INDUSTRIAL AIR PARK (SJN)

AMDT 1A 08241 (FAA)

TAKE-OFF MINIMUMS: **Rwy 21**, 400-2 or std. with a min. climb of 205' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 3, 32**, climbing right turn, **Rwys 14, 21**, climbing left turn. **All aircraft**, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW R-080 climb on course. All others continue climb in SJN VORTAC holding pattern (Hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.

NOTE: **Rwy 14**, 5790' tower 350' right abeam departure end of runway.



SALT LAKE CITY, UT

SALT LAKE CITY INTL (SLC)

AMDT 10 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 32**, NA, operational.
 DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 10000 via heading 161° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwy 17**, climb to 10000 via heading 166° and FFU R-341 to FFU VORTAC before proceeding on course. **Rwys 34L, 34R**, climb to 9000 via heading 341° and OGD R-153 to OGD VORTAC before proceeding on course. **Rwy 35**, climb to 9000 via heading 336° and OGD R-153 to OGD VORTAC before proceeding on course.

NOTE: **Rwy 16L**, vehicle 124' from DER, 14' right of centerline, 15' AGL/4239' MSL. Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL. Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL. **Rwy 17**, vehicles beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL. **Rwy 34R**, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL. **Rwy 35**, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

SOUTH VALLEY RGNL AIRPORT (U42)

AMDT 4A 09155 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 2400-3 or std. with a min. climb of 295' per NM to 7700. **Rwy 34**, std. with a min. climb of 353' per NM to 9500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing left turn to 9600 via heading 136° and V21 (TCH R-161 FFU R-341) to FFU VORTAC. Aircraft departing FFU R-156 CWR-263 and R-308 CWR-359 climb on course. All others continue climb in FFU VORTAC holding pattern (S, right turns, 008° inbound) to cross FFU VORTAC at or above: R-360 CWR-093 12400; R-094 CWR-138 10600; R-139 CWR-155 11300; R-264 CWR-307 11500. **Rwy 34**, climbing right turn to 9500 via heading 026° and V21 (TCH R-161) to TCH VORTAC. Aircraft departing TCH R-144 CWR-176 and R-217 CWR-355 climb on course. All others continue climb in TCH VORTAC holding pattern (NW, right turns, 116° inbound) to cross TCH VORTAC at or above: R-356 CWR-116 10700; R-117 CWR-143 11600; R-177 CWR-216 10100.

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

AMDT 7 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min climb of 440' per NM to 4000, or 3100-3 for climb in visual conditions. **Rwy 21**, std. w/ min. climb of 215' per NM to 4000, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 4000 via heading 220° and PXR VORTAC R-336 southeast bound to PXR VORTAC. Thence...

Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course. **Rwy 21**, climbing right turn to 4000 via heading 300° and PXR VORTAC R-336 northwest bound then left turn direct PXR VORTAC. Thence... Or, for climb in visual conditions: cross Scottsdale airport at or above 4500 MSL before proceeding on course.

...continue climb on course.

NOTE: **Rwy 3**, multiple light standards beginning 63' from departure end of runway, 445' left of centerline, up to 44' AGL/1554' MSL. Hoist on dike 878' from departure end of runway, 735' left of centerline, 51' AGL/1561' MSL. Dike beginning 1066' from departure end of runway, 316' left of centerline, 38' AGL/1548' MSL. Day marker on dike 1230' from departure end of runway, 5' left of centerline, 39' AGL/1549' MSL. Tree, 269' from departure end of runway, 490' left of centerline, 13' AGL/1523' MSL. Tree 51' from departure end of runway, 279' left of centerline, 6' AGL/1516' MSL. Tree 765' from departure end of runway, 115' left of centerline, 22' AGL/1532' MSL. Road beginning 647' from departure end of runway, 296' left of centerline, 19' AGL/1529' MSL. Tree 227' from departure end of runway, 97' left of centerline, 6' AGL/1516' MSL. Fence beginning 5' from departure end of runway, 338' right of centerline, 6' AGL/1511' MSL. Light standard, 1013' from departure end of runway, 430' right of centerline, 44' AGL/1552' MSL. **Rwy 21**, tree 1072' from departure end of runway, 426' right of centerline, 53' AGL/1497' MSL. Building 316' from departure end of runway, 537' right of centerline, 23' AGL/1467' MSL. Tree 2087' from departure end of runway, 418' left of centerline, 61' AGL/1505' MSL. Tree 1432' from departure end of runway, 438' right of centerline, 38' MSL/1482' MSL. Tree 2234' from departure end of runway, 559' left of centerline, 58' AGL/1502' MSL.

SEDONA, AZ

SEDONA (SEZ)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 21**, Use OATES RNAV DEPARTURE.

SHOW LOW, AZ

SHOW LOW RGNL

DEPARTURE PROCEDURE: **Rwys 3, 6**, turn left.

Rwys 21, 24, turn right. All aircraft climb via 345 bearing from SOWNDB to DEHOG INT then climb on course.



SPRINGERVILLE, AZ**SPRINGERVILLE MUNI**

TAKE-OFF MINIMUMS: **Rwy 21**, 1000-2 or std. with a min. climb of 360° per NM to 8400.

DEPARTURE PROCEDURE: **Rwys 3, 11**, climbing left turn to 8400 via heading 360° before proceeding on course. **Rwys 21, 29**, climbing right turn to 8400 via 360° before proceeding on course.

TAYLOR, AZ**TAYLOR MUNI**

TAKE-OFF MINIMUMS: **Rwy 21**, 300-1 or std. with a min. climb of 248° per NM to 6100.

DEPARTURE PROCEDURE: **Rwy 3/21**, climb on runway heading to 8000 before turning on course.

TONOPAH, NV**TONOPAH**

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA. **Rwys 15, 33**, 2600-2 or std. with a min. climb of 260° per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 15**, turn left. **Rwy 33**, turn right. Climb direct TPH VORTAC. Continue climb in holding pattern (NE, right turns, 246° inbound) to depart TPH VORTAC at or above 8000. Climb on course to MEA or assigned altitude.

TOOELE, UT**BOLINDER FIELD-TOOELE VALLEY**

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 490° per NM to 11000. **Rwy 35**, std. with a min. climb of 360° per NM to 9000.

DEPARTURE PROCEDURE: Use STACO DEPARTURE.

NOTE: **Rwy 17**, tree 794' from departure end of runway, 277' right of centerline, 35' AGL/4380' MSL. Tree 967' from departure end of runway, 432' right of centerline, 35' AGL/4394' MSL. Tree 1023' from departure end of runway, 313' right of centerline, 35' AGL/4395' MSL.

TUCSON, AZ**MARANA RGNL**

TAKE-OFF MINIMUMS: **Rwys 3, 12**, N/A-Obstacles

DEPARTURE PROCEDURE: **Rwy 21**, climb to 6500 via heading 360° and TUS R-308 to TOTEC Int/TUS 57 DME, then as filed. **Rwy 30**, climb to 6500 via heading 303° intercept TUS R-308 above 3500, to TOTEC Int/TUS 57 DME, then as filed.

NOTE: **Rwy 21**, road 192' from departure end of runway, 527' left of centerline 15' AGL/2034' MSL.

RYAN FIELD

DEPARTURE PROCEDURE: **Rwy 6R**, turn right; **Rwy 24L**, turn left direct to Ryan NDB. Continue climb in holding pattern (W, right turn 090° inbound) to 5000 before proceeding on course.

TUCSON, AZ (CON'T)**TUCSON INTL (TUS)****AMDT 4A 08241 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1½ or std. w/ min. climb of 228° per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 3, 29L, 29R**, climbing right turn direct to TUS VORTAC. **Rwys 11L, 11R** climb via runway heading to 4000 then climbing left turn direct TUS VORTAC. **Rwy 21**, climbing left turn direct to TUS VORTAC. All aircraft continue climbing in holding pattern (NW, right turns, 128° inbound) to depart TUS VORTAC at or above 9000.

NOTE: **Rwy 3**, tower 9215' from departure end of runway, 1689' left of centerline, 246' AGL/2831' MSL.

VERNAL, UT**VERNAL RGNL**

TAKE-OFF MINIMUMS: **Rwy 16**, 1500-2 or std with a min. climb of 250° per NM to 7000'. **Rwy 25**, 1500-2 or std. with a min. climb of 390° per NM to 7000. **Rwy 34**, 1600-2 prstd. with a min. climb of 330° per NM to 7000'. DEPARTURE PROCEDURE: **Rwys 7, 34**, turn right.

Rwys 16, 25, turn left. All aircraft climb direct VEL. Aircraft departing V391 S-bound climb on course. All others climb in holding pattern (SE, right turns, 322° inbound). Aircraft SW-bound V208 depart VEL at or above 8400', all others depart VEL at or above 9500'. Continue climb on course to MEA or assigned altitude.

WENDOVER, UT**WENDOVER**

TAKE-OFF MINIMUMS: **Rwy 26**, standard with a min. climb of 300° per NM to 7000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwys 8, 12, 26**, climbing left turn direct BVL VORTAC. Aircraft departing BVL VORTAC R-330 CW R-150 climb on course. All others continue climb in BVL VORTAC holding pattern (Hold NE right turns, 247° inbound) to cross at or above 7400, then climb on course.

WILLCOX, AZ**COCHISE COUNTY**

DEPARTURE PROCEDURE: **Rwy 3**, turn right. **Rwy 21**, turn left. All aircraft climb direct CIE VORTAC.



WINDOW ROCK, AZ

WINDOW ROCK

TAKE-OFF MINIMUMS: **Rwy 2**, 700-2 or std. with a min. climb of 500' per NM to 8000. **Rwy 20**, 600-2 or std. with a min. climb of 260' per NM to 8200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right.

Rwy 20, turn left direct to GUP VORTAC before proceeding on course.

NOTE: **Rwy 2**, terrain 3832' from departure end of runway, 1025' right of centerline, 6926' MSL. Poles 5220' from departure end of runway, 245' right of centerline, 180' AGL/6922' MSL. Tower 7067' from departure end of runway, 3072' left of centerline, 71' AGL/7316' MSL. Terrain 7449' from departure end of runway, 1612' left of centerline, 6991' MSL. Terrain 8776' from departure end of runway, 1851' left of centerline, 7109' MSL. Tree 9665' from departure end of runway, 1326' right of centerline, 7340' MSL. Tree 11326' from departure end of runway, 355' left of centerline, 7351' MSL. **Rwy 20**, trees 1018' from departure end of runway, 620' left of centerline, 30' AGL/6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 2500-2 or std. with a min. climb of 450' per NM to 6800. **Rwys 14,20**, 3200-2 or std. with a min. climb of 520' per NM to 7500.

DEPARTURE PROCEDURE: **Rwys 14,20**, turn right.

Rwy 2, turn left. **Rwy 32**, climb straight ahead. All aircraft climb via INA R-326 to 6700 or above within 12 NM, then climbing left turn return to INA VOR/DME via R-326. Continue climb in INA VOR/DME holding pattern (hold NW, right turns, 146° inbound) to depart INA VOR/DME at or above 11000. Southbound aircraft continue via INA R-146 direct Fesko Int. Northbound aircraft continue via INA R-326 and SDO R-144 direct SDO VORTAC.

YUMA MCAS/ YUMA INTL(KNYL)

YUMA, AZ 09323

Diverse departures not auth between 360° CW 055° from 25 NM to 30 NM.

Rwy 3L: Cross DER at or above 35' AGL/228' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 3R: Cross DER at or above 35' AGL/242' MSL.

Diverse departures auth. Fr 083° CW 107°, std with minimum climb of 225'/NM to 3500'.

Rwy 21L: Cross DER at or above 35' AGL/223' MSL.

Diverse departures auth.

Rwy 21R: Cross DER at or above 35' AGL/227' MSL.

Diverse departures auth.

Rwy 8: Cross DER at or above 35' AGL/231' MSL.

Diverse departures auth. Fr 069° CW 123°, std with minimum climb of 230'/NM to 3500'.

Rwy 26: Cross DER at or above 35' AGL/230' MSL.

Diverse departures auth.

Rwy 17: Cross DER at or above 35' AGL/217' MSL.

Diverse departures auth. Fr 068° CW 109°, std with minimum climb of 220'/NM to 3500'.

Rwy 35: Cross DER at or above 35' AGL/231' MSL.

Diverse departures auth.



LOC/DME I-LGU	APP CRS	Rwy Idg	9095
109.15	169°	TDZE	4457
Chan 28 (Y)		Apt Elev	4457

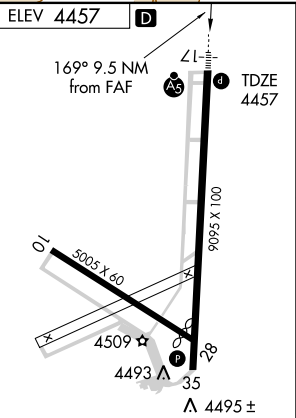
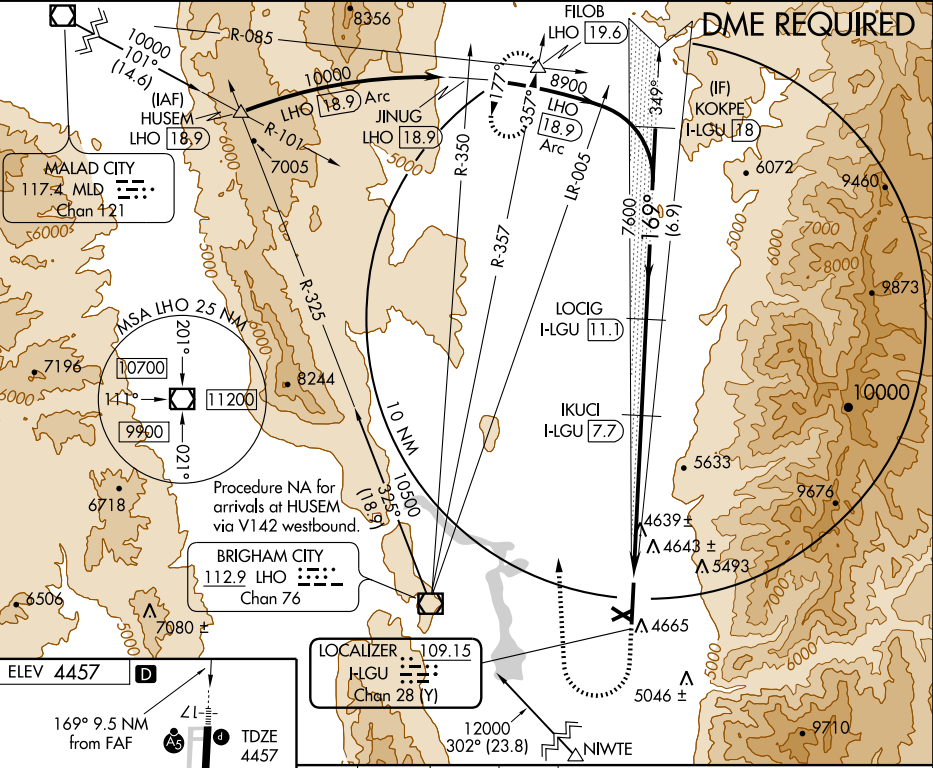
▼

Circling NA east of Rwy 17-35.
Circling to Rwy 10-28 NA at night.
Inoperative table does not apply.

MALSR

MISSED APPROACH: Climb to 5800 then climbing right turn to 14000 via heading 340° and LHO VOR/DME R-357 to FIOB. INT/LHO 19.6 DME and hold, continue climb-in-hold to 14000.

ASOS 135.275	CEDAR CITY RADIO 122.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A		B		C		D	
	S-ILS 17		4657-3/4		200 (200-3/4)			
S-LOC 17	4900-1		443 (500-1)		4900-1 1/4 443 (500-1 1/4)		4900-1 1/2 443 (500-1 1/2)	
	4900-1		4920-1		4920-1 1/2		5020-2	
CIRCLING	4900-1		463 (500-1)		463 (500-1 1/2)		563 (600-2)	
	443 (500-1)		463 (500-1)		463 (500-1 1/2)			

MIRL Rwy 17-35 0
REIL Rwy 17 and 35 0

SW-4, 14 JAN 2010 to 11 FEB 2010

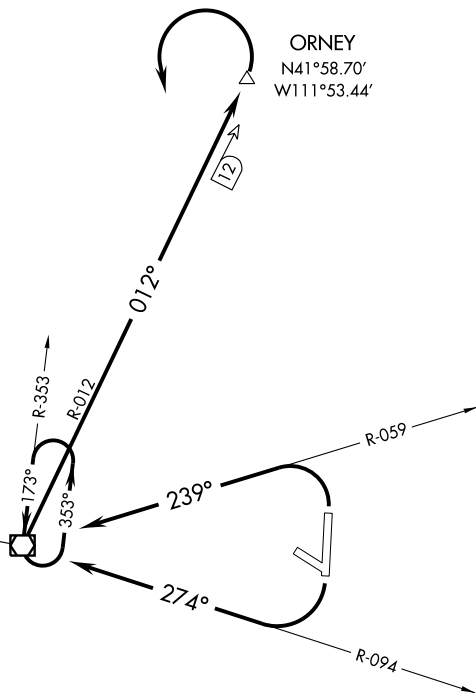
ORNEY ONE DEPARTURE (OBSTACLE)

CEDER CITY RADIO
122.2
ASOS 135.275
UNICOM
122.8 (CTAF)

TAKEOFF OBSTACLE NOTES

- RWY 17: Railroad, poles and tree beginning 336' from DER, 220' left of centerline, up to 45' AGL/4495' MSL.
- RWY 35: Railroad beginning 205' from DER, 554' right of centerline, up to 23' AGL/4490' MSL.

BRIGHAM CITY
112.9 LHO
Chan 76
N41°47.57' - W112°00.59'
L-11, H-3



TAKE-OFF MINIMUMS

Rwy 10, 28: NA-obstacles.

Rwy 17: Standard with minimum climb of 276' per NM to 7100', or 4700-3 for climb in visual conditions.

Rwy 35: Standard with minimum climb of 274' per NM to 9500', or 4700-3 for climb in visual conditions.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climbing right turn to 12000 via LHO VOR/DME R-094 to LHO VOR/DME and right turn via LHO R-012 to ORNEY INT/LHO 12 DME and left turn via LHO R-012 to LHO VOR/DME, thence . . . or for climb in visual conditions, cross Logan-Cache Airport at or above 9000, climb to 12000 via LHO R-077 to LHO VOR/DME, thence . . .

TAKE-OFF RUNWAY 35: Climbing left turn to 12000 via LHO VOR/DME R-059 to LHO VOR/DME and right turn via LHO R-012 to ORNEY INT/LHO 12 DME and left turn via LHO R-012 to LHO VOR/DME, thence . . . or for climb in visual conditions, cross Logan-Cache Airport at or above 9000, climb to 12000 via LHO R-077 to LHO VOR/DME, thence . . .

. . . continue climbing in LHO VOR/DME holding pattern to 12000 before proceeding on course.

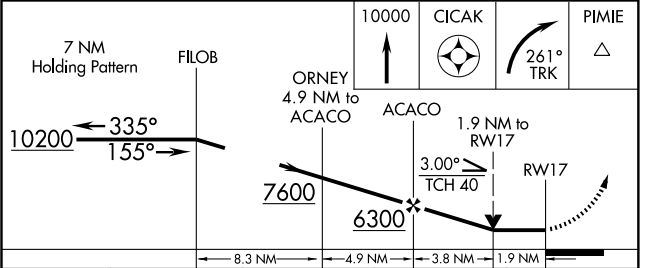
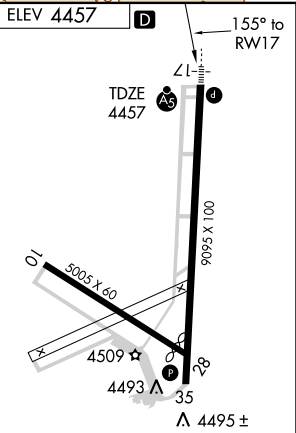
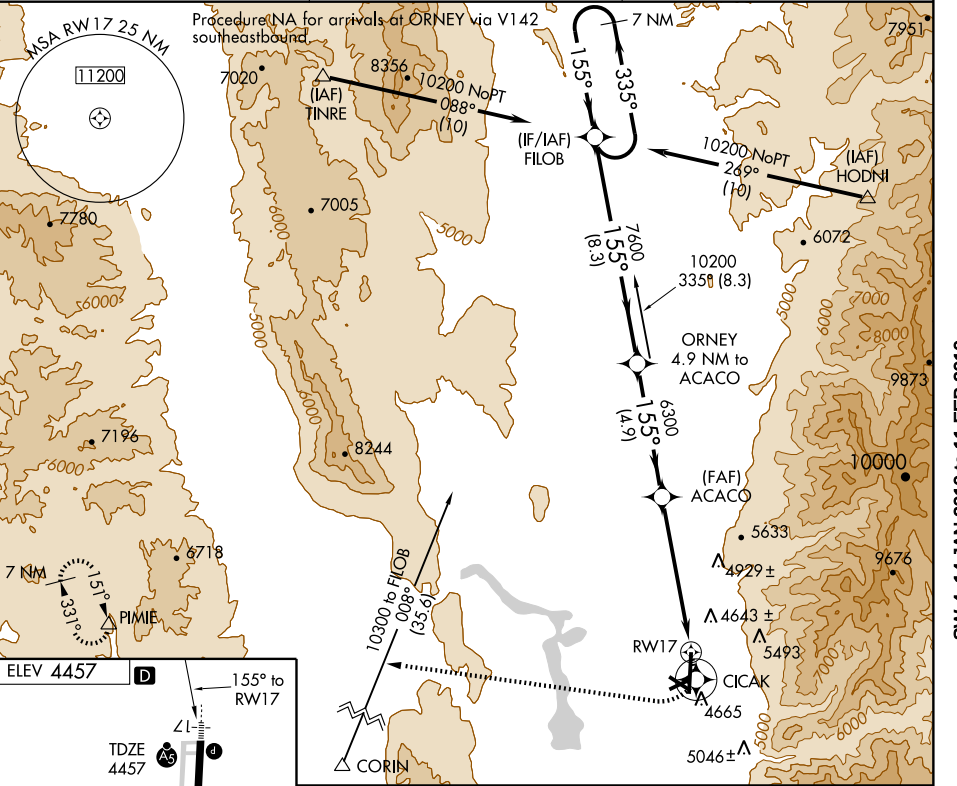
❖

Circling NA east of Rwy 17-35.
DME/DME RNP-0.3 NA.

MALS R

MISSED APPROACH: Climb to 10000 direct CICA K and right turn via 261° track to PIMIE and hold, continue climb-in-hold to 10000.

ASOS 135.275	CEDAR CITY RADIO 122.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	5100-1	643 (700-1)	5100-1 3/4 643 (700-1 3/4)	5100-2 643 (700-2)
CIRCLING	5100-1	643 (700-1)	5100-1 3/4 643 (700-1 3/4)	5100-2 643 (700-2)

MIRL Rwy 17-35
REIL Rws 17 and 35

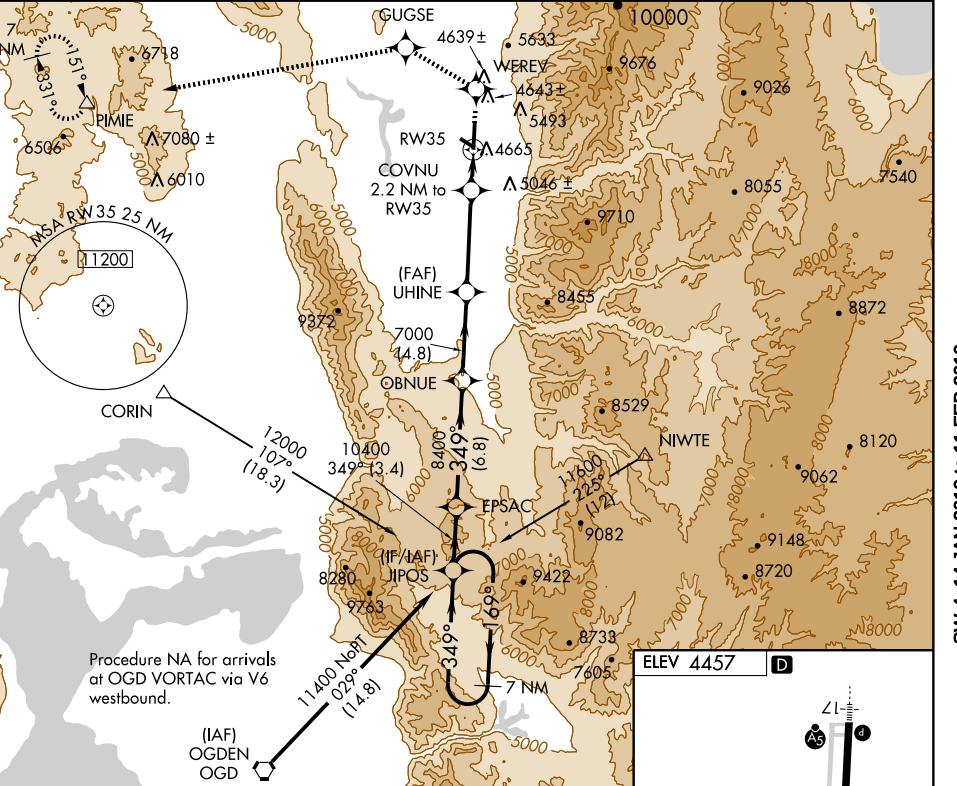
SW-4, 14 JAN 2010 to 11 FEB 2010

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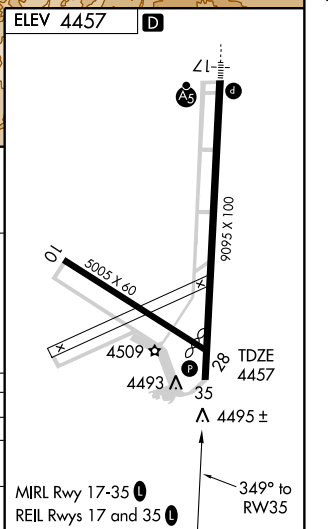
Circling NA east of Rwy 17-35.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 10000 direct WEREV and via 286° track to GUGSE and 246° track to PIMIE and hold, continue climb-in-hold to 10000.

ASOS 135.275	CEDAR CITY RADIO 122.2	UNICOM 122.8 (CTAF) 0
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7 NM Holding Pattern	JIPOS	EPSAC	10000 WEREV	GUGSE	PIMIE
11400 ← 169°			↑	286° TRK	246° TRK
GS 3.00° TCH 45	10400		OBNUUE	UHINE	COVNU 2.2 NM to RW35
VGSI and RNAV glidepath not coincident.	8400		7000	5180	
	3.4 NM	6.8 NM	4.8 NM	5.5 NM	2.2 NM
CATEGORY	A	B	C	D	
LPV DA	4746-1 289 (300-1)				
LNAV MDA	5060-1 603 (700-1)		5060-1 603 (700-1 3/4)		5060-2 603 (700-2)
CIRCLING	5060-1 603 (700-1)		5060-1 603 (700-1 3/4)		5060-2 603 (700-2)



SW-4, 14 JAN 2010 to 11 FEB 2010

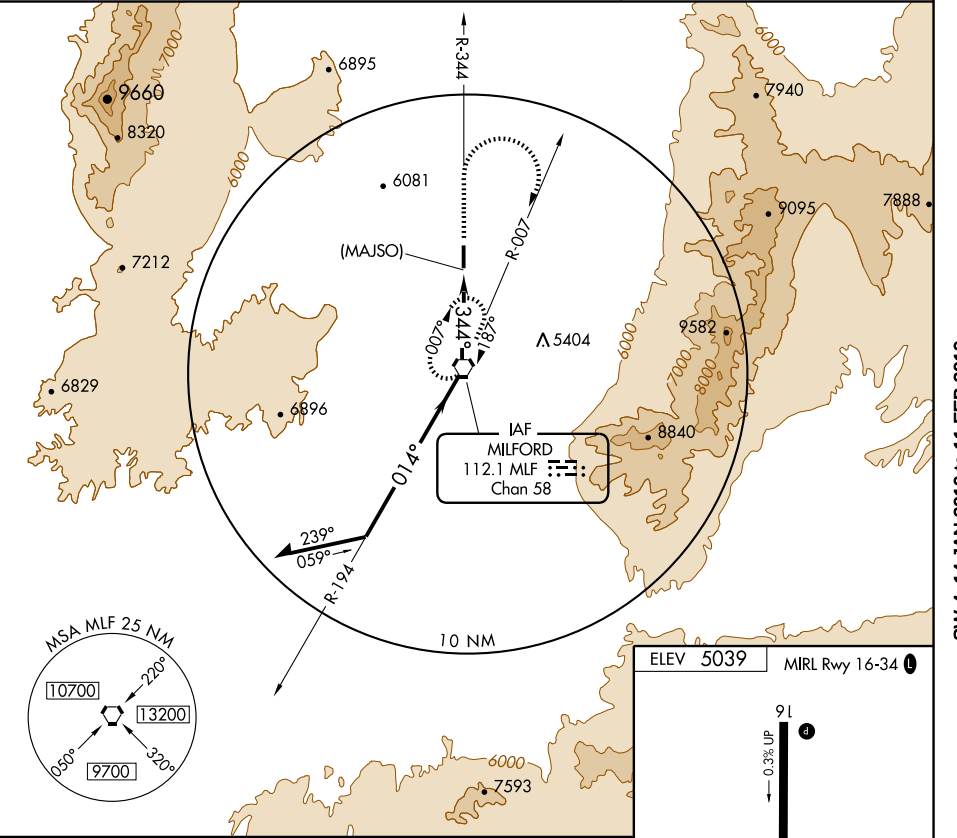
VORTAC MLF	APP CRS	Rwy Idg	N/A
112.1	344°	TDZE	N/A
Chan 58		Apt Elev	5039

▼

▲

MISSED APPROACH: Climb to 7000 via MLF R-344, then climbing right turn to 9200 via R-007 to MLF VORTAC and hold.

ASOS	CEDAR CITY RADIO	UNICOM
135.025	122.1R	122.8 (CTAF) 0



Remain within 10 NM

VORTAC

8700

194°

014°

6700

344°

3.5 NM

(MAJSO) MLF 3.5

7000

9200

MLF 112.1

ELEV 5039

MIRL Rwy 16-34 0

91

0.3% UP

5000 X 75

34

344° 3.5 NM from FAF

CATEGORY	A	B	C	D	FAF to MAP 3.5 NM					
CIRCLING	5660-1 621 (700-1)	5680-1 641 (700-1)	5700-1 ¼ 661 (700-1 ¼)	5780-2 ½ 741 (800-2 ½)	Knots	60	90	120	150	180
					Min:Sec	3:30	2:20	1:45	1:24	1:10

APP CRS	Rwy Idg	7100
039°	TDZE	4551
	Apt Elev	4555

RNAV (GPS) RWY 3

MOAB/CANYONLANDS FIELD (CNY)

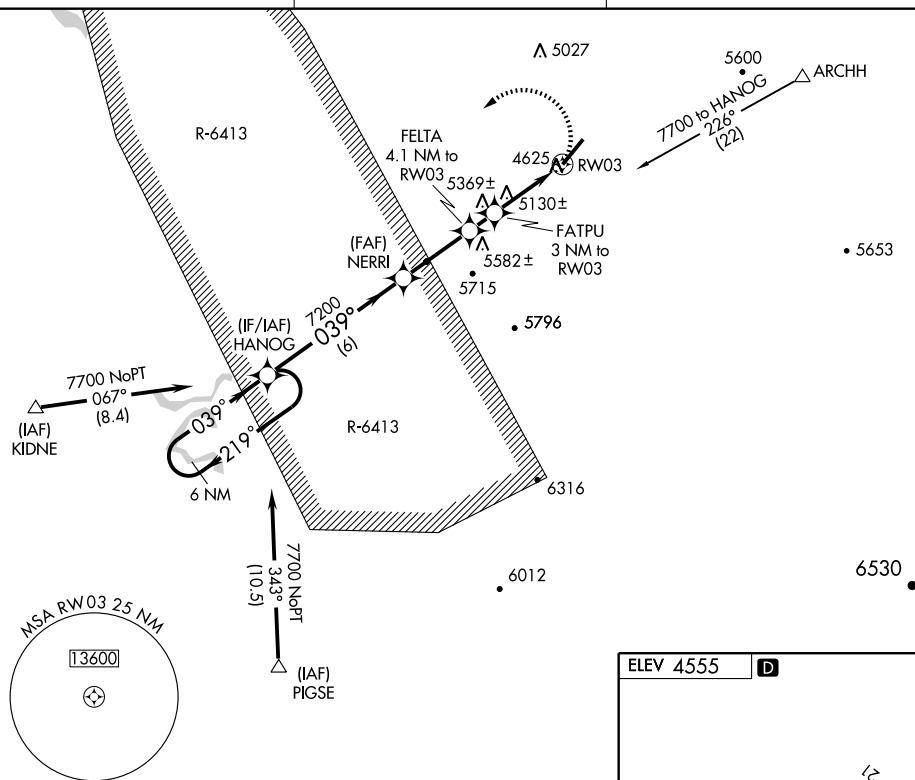


GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Procedure NA when R-6413 in operation.
Procedure NA at night.

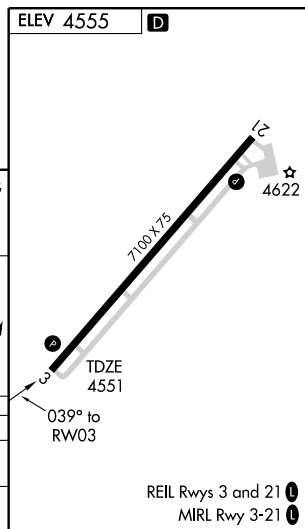
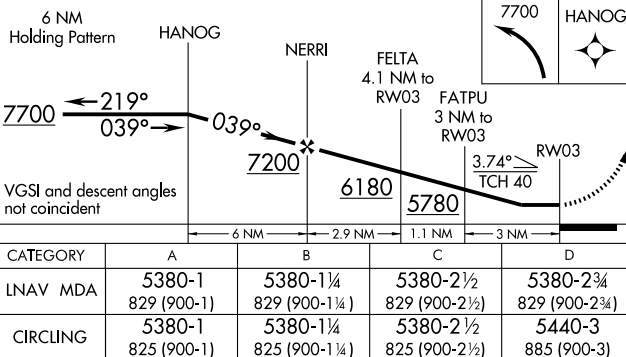
MISSED APPROACH: Climbing left turn to 7700 direct HANOG WP and hold.

ASOS
118,525

DENVER CENTER
134.5 327.8

UNICOM
122.8 (CTAF) **L**

SW-4. 14 JAN 2010 to 11 FEB 2010

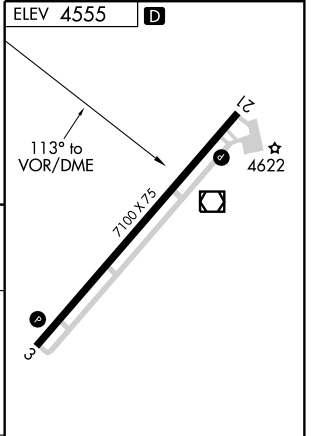
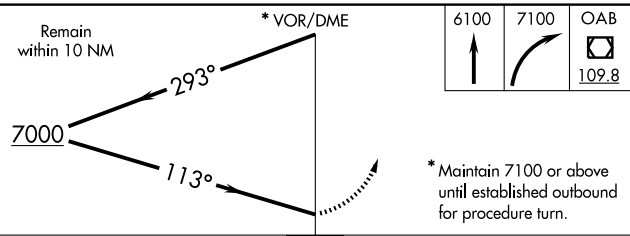
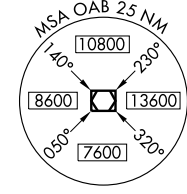
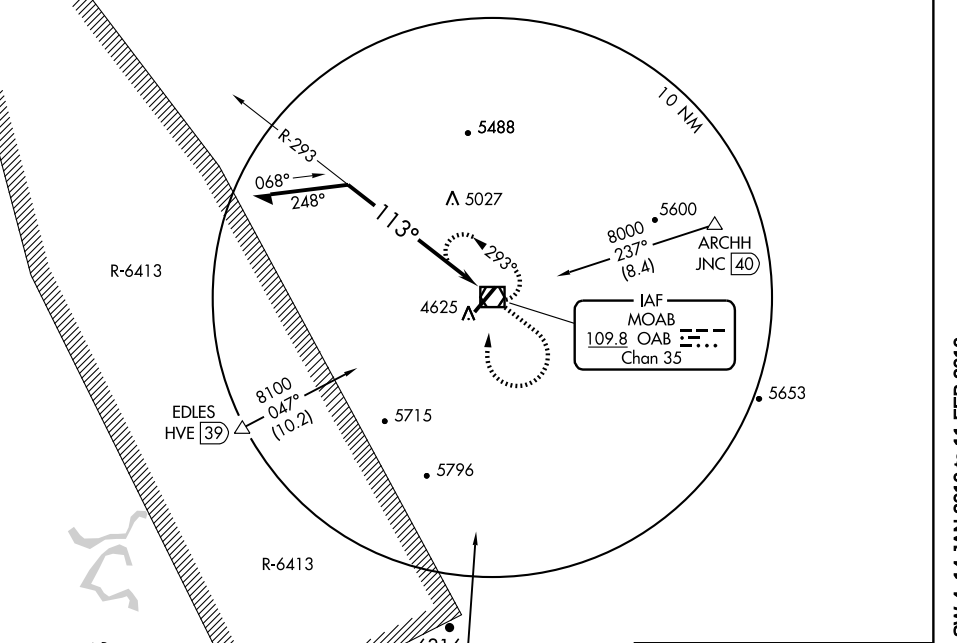


NA

Procedure not authorized when R-6413 in operation.

MISSED APPROACH: Climb to 6100 then climbing right turn to 7100 direct OAB VOR/DME and hold.

ASOS 118.525	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
CIRCLING	5500-1¼ 945 (1000-1¼)	5500-2¾ 945 (1000-2¾)	5500-3 945 (1000-3)	5500-3 945 (1000-3)

REIL Rwy 3 and 21 1

MIRL Rwy 3-21 1

SW-4, 14 JAN 2010 to 11 FEB 2010

08269

AIRPORT DIAGRAM

AFD-296 [USAF]

HILL AFB (KHIF)

OGDEN, UTAH

ATIS 134.925 397.9

HILL TOWER

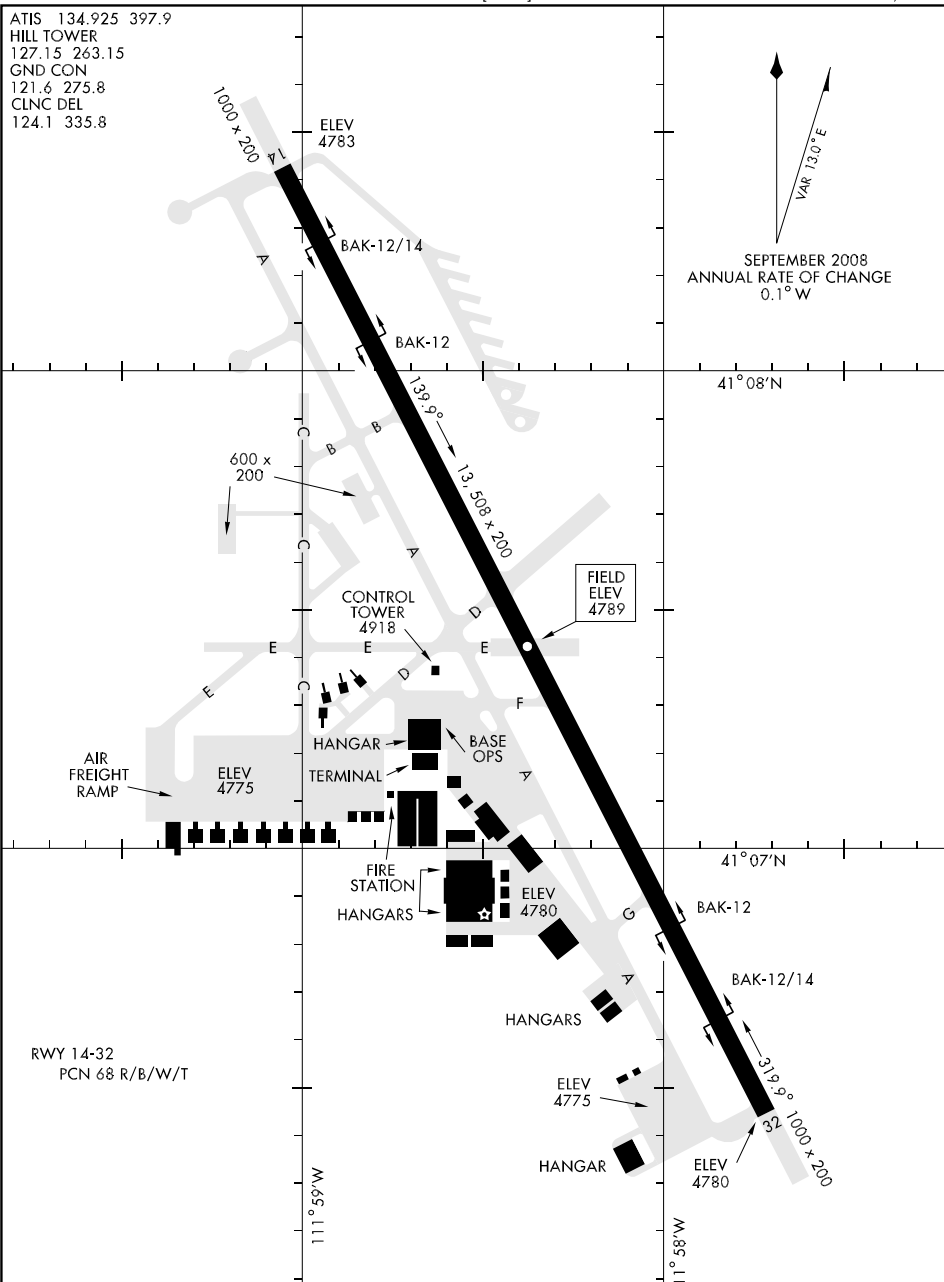
127.15 263.15

GND CON

121.6 275.8

CLNC DEL

124.1 335.8



RWY 14-32
PCN 68 R/B/W/T

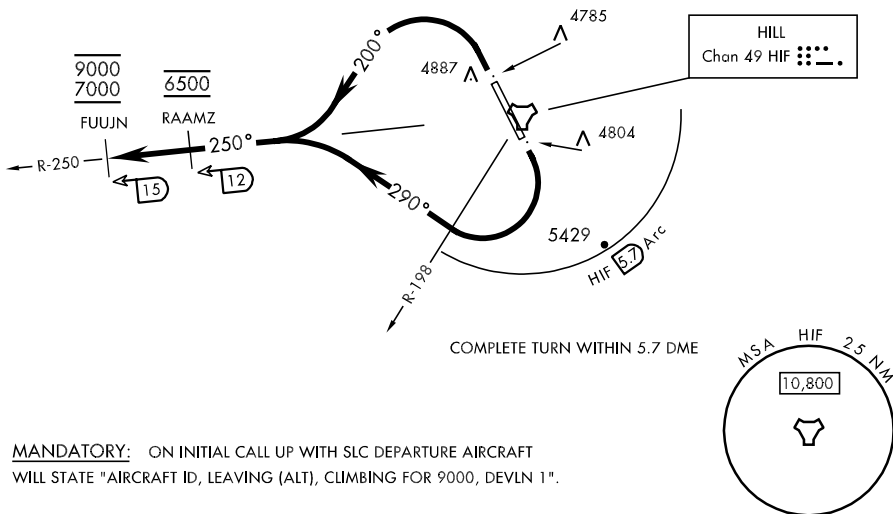
SW-4, 14 JAN 2010 to 11 FEB 2010

ATIS 134.925 397.9
 CLNC DEL
 124.1 335.8
 GND CON
 121.6 275.8
 HILL TOWER
 127.15 263.15
 SALT LAKE CITY
 DEP CON
 121.1 319.25
 CLOVER CON
 134.1 285.65

Rwy	Knots	60	120	180	240	300	360
14	V/V(fpm)	2095	4190	6285	8380	10475	12570
32	V/V(fpm)	4610	9220	13830	18440	23050	27660

ATC Climb Rate to 5200

AIRSPED IN EXCESS OF 350 KIAS NOT
 AUTHORIZED UNTIL ESTABLISHED:
 RWY 14 HEADING 290°
 RWY 32 HEADING 200°



MANDATORY: ON INITIAL CALL UP WITH SLC DEPARTURE AIRCRAFT
 WILL STATE "AIRCRAFT ID, LEAVING (ALT), CLIMBING FOR 9000, DEVLN 1".

EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, remain within HIF TACAN 5.7 DME until passing the HIF R-198 and established on a heading greater than 256°, intercept HIF R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 9000.

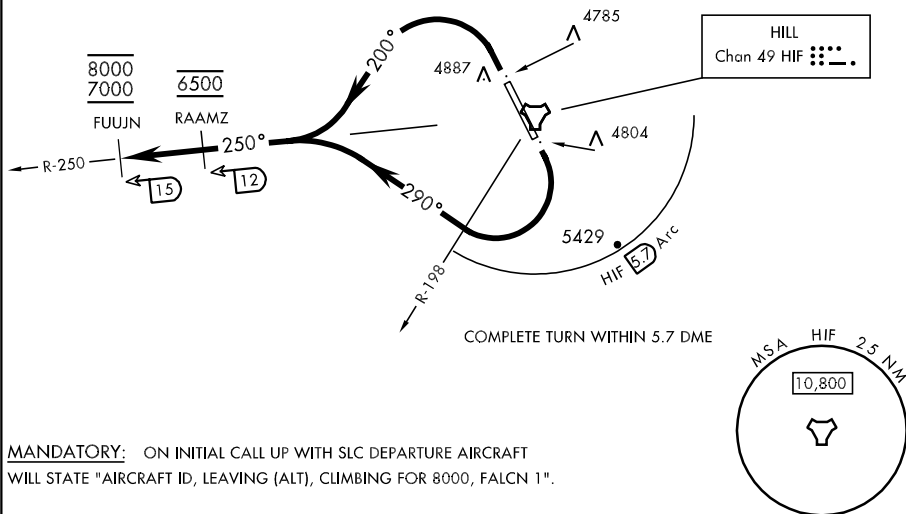
TAKE-OFF RWY 32: Turn left heading 200°, intercept HIF TACAN R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 9000.

ATIS	134.925	397.9
CLNC DEL		
124.1	335.8	
GND CON		
121.6	275.8	
HILL TOWER		
127.15	263.15	
SALT LAKE CITY		
DEP CON		
121.1	319.25	
CLOVER CON		
134.1	285.65	

Rwy	Knots	60	120	180	240	300	360
14	V/V(fpm)	2095	4190	6285	8380	10475	12570
32	V/V(fpm)	4610	9220	13830	18440	23050	27660

ATC Climb Rate to 5200

AIRSPED IN EXCESS OF 350 KIAS NOT
AUTHORIZED UNTIL ESTABLISHED:
RWY 14 HEADING 290°
RWY 32 HEADING 200°



MANDATORY: ON INITIAL CALL UP WITH SLC DEPARTURE AIRCRAFT
WILL STATE "AIRCRAFT ID, LEAVING (ALT), CLIMBING FOR 8000, FALCN 1".

EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, remain within HIF TACAN 5.7 DME until passing the HIF R-198 and established on a heading greater than 256°, intercept HIF R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 8000.

TAKE-OFF RWY 32: Turn left heading 200°, intercept HIF TACAN R-250 outbound prior to HIF DME, cross RAAMZ at 6500, climb and maintain 7000 block 8000.

FREMONT 1 (VECTOR) DP (FRMNT1 • FRMNT)

FILE 7-10 (RNP) OGDEN, UTAH

ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65

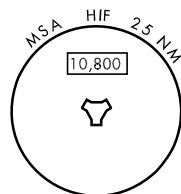
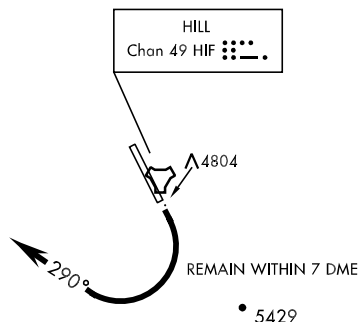
SHL-296 [USAF]

Rwy	Knots	60	120	180	240	300	360
14 (a) V/V(fpm)		580	1160	1740	2320	2900	3480
14 (b) V/V(fpm)		260	520	780	1040	1300	1560

ATC Climb Rate

(a) To 5200

(b) From 5200 to 6300



LOST COMMUNICATIONS: IF RADIO CONTACT HAS NOT BEEN ESTABLISHED
BY HIF R-225 OR 12 DME, SQUAWK 7600 AND IMMEDIATELY
CLIMB TO 7500 MSL.

EMERG SAFE ALT 100 NM 15,600



DEPARTURE ROUTE DESCRIPTION

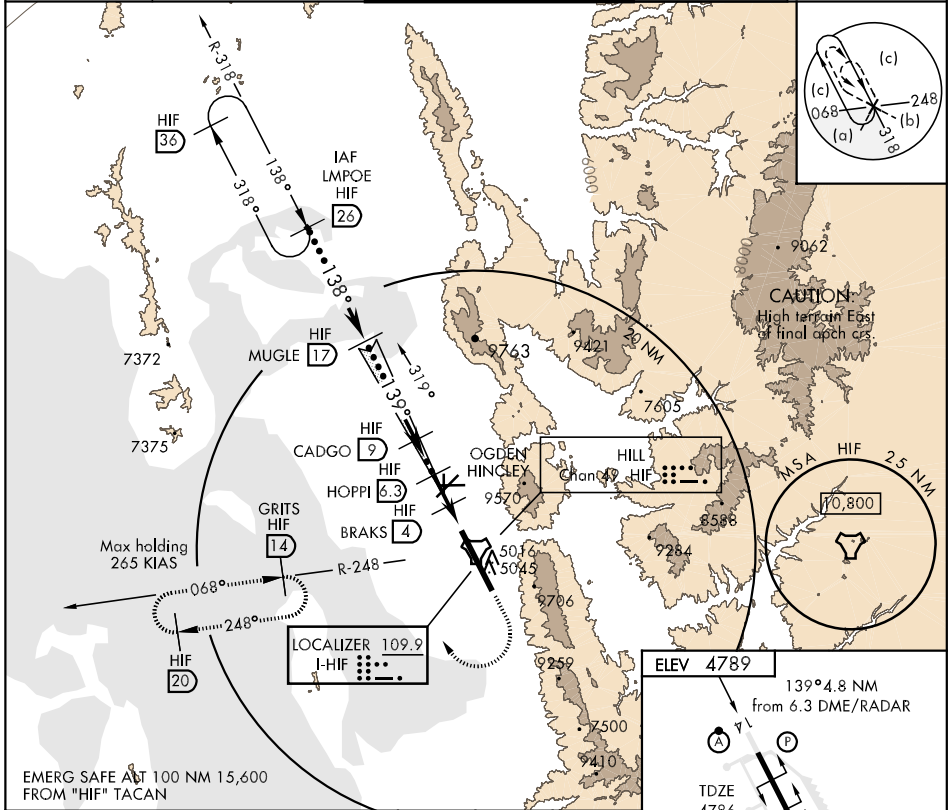
TAKE-OFF RWY 14: Turn right heading 290°, remain within 7 DME, maintain 6500.

TACAN OUT: Turn right heading 290°, maintain 6500.

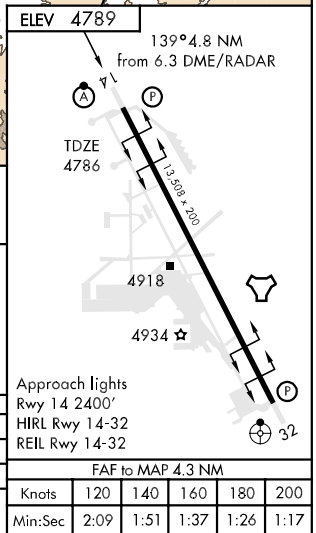
LOC I-HIF 109.9	APCH CRS 139°	Rwy Idg 13,508 TDZE 4786 Arprt Elev 4789	JAL-296 [USAF]	HILL AFB (KHIF)
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▼ * When ALS inop, increase RVR to 40 and vis to 3/4 mile. ** When ALS inop, increase RVR to 50 and vis to 1 mile. *** Circling not authorized NE of Rwy 14-32.	ALSF-2	MISSED APPROACH: To 5500, then climbing right turn to 7900 out HIF R-248 to GRITS and hold.
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ATIS ★ 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
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LMPOE R-318 FL180 14,000	MUGLE Intcp Lczt 9000 8000	CADGO HIF 9 7000	HOPPI HIF 6.3 6289	BRAKS HIF 4 5700	DITLE HIF 2 5500	TACAN
GS 2.80° TCH 57						
CATEGORY	C	D	E			
S-ILS 14 *	4986/24	200	(200-1/2)			
S-LOC 14 **	5040/40	254	(300-3/4)			
CIRCLING ***	5240-1 1/2 451 (500-1 1/2)	5340-2	551 (600-2)			

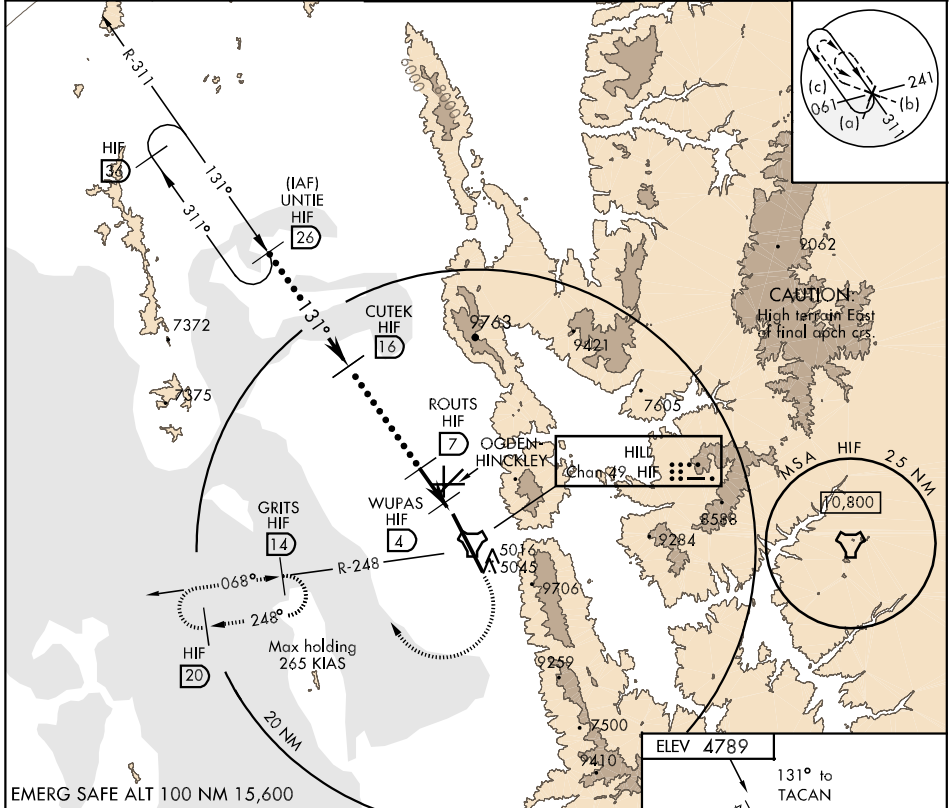


SW-4, 14 JAN 2010 to 11 FEB 2010

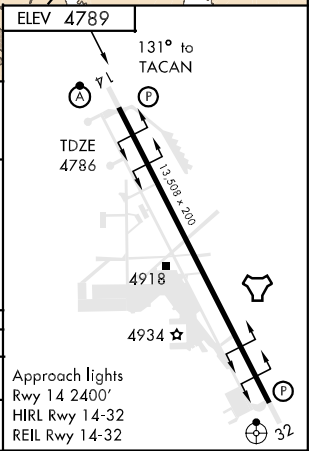
TACAN HIF Chan 49	APCH CRS 131°	Rwy Idg 13,508 TDZE 4786 Arprt Elev 4789	JAL-296 [USAF]	HILL AFB (KHIF)
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▼ *When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1½ miles. **Circling not authorized NE of Rwy 14-32.	ALSF-2	MISSED APPROACH: To 5500, then climbing right turn to 7900 out HIF R-248 to GRITS and hold.
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ATIS ★ 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
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UNTEIE FL180 14,000 9000 8000 3.24° TCH 59	CUTEK 6300	ROUTS 5700	WUPAS 5500	JESGO 5700	TACAN
5500	7900	GRITS	VGSI and descent angle not coincident	4.9 NM	.6
CATEGORY	C	D	E	354	(400-34)
S-14 *	5140/40	5240-1½	5340-2	551	(600-2)
CIRCLING **	451 (500-1½)	451 (500-1½)	451 (500-1½)	451 (500-1½)	451 (500-1½)



TACAN Chan 49	APCH CRS 332°	Rwy ldg TDZE Arpt Elev 4789
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JAL-296 [USAF]

HILL AFB (KHIF)

⚠ *Circling not authorized E of Rwy 14-32.

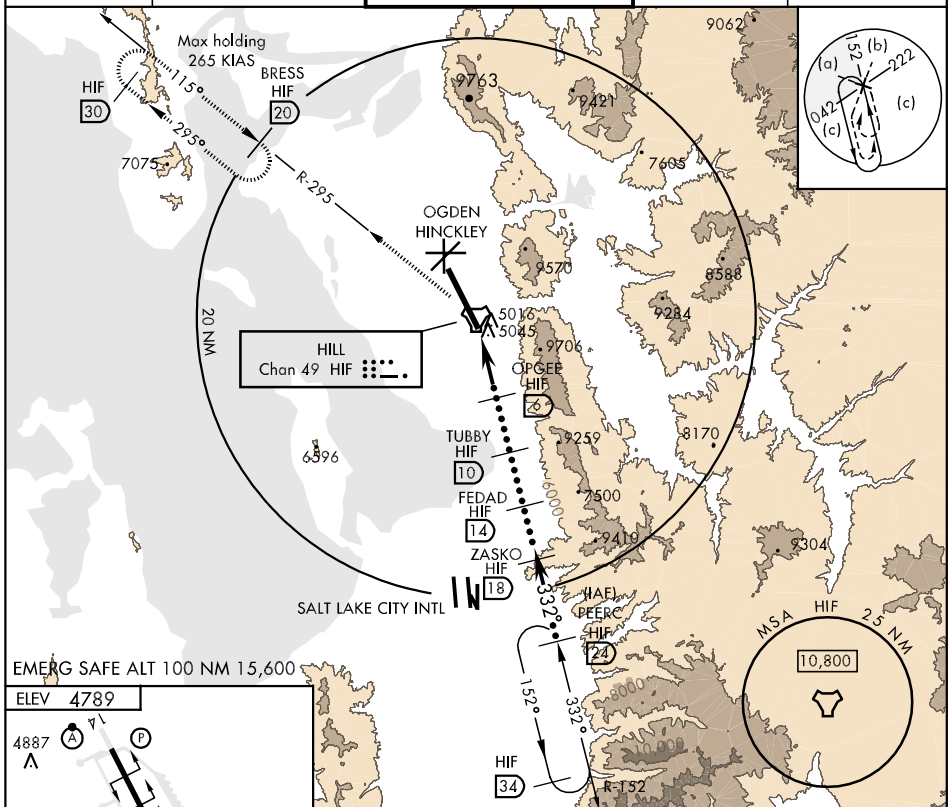
CAUTION: High terrain East of final apch crs.

ODALS

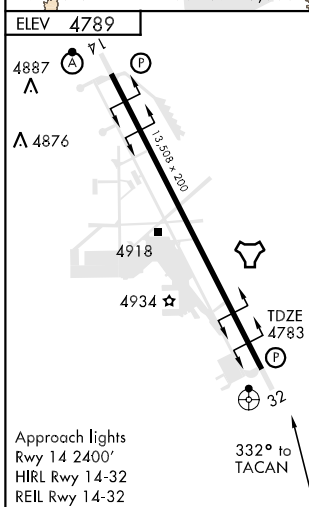


MISSED APPROACH: Climbing left turn to 8400 out HIF R-295 to BRESS and hold.

ATIS 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
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EMERG SAFE ALT 100 NM 15,600



Approach lights
Rwy 14 2400'
HIRL Rwy 14-32
REIL Rwy 14-32

OGDEN, UTAH
Amdt 2 06271

8400 HIF R-295	BRESS HIF 20	VGSI and descent angle not coincident.	PEERC R-152 24
TACAN	FIKAP 1.4	OPGEE 6	TUBBY 10
6800	8400	9500	10000
332°	332°	332°	332°
8.6 NM	8.6 NM	8.6 NM	8.6 NM
3.55° TCH 52	3.55° TCH 52	3.55° TCH 52	3.55° TCH 52
CATEGORY	C	D	E
S-32	5240/50 457 (500-1)	5240/60	457 (500-1¼)
CIRCLING *	5240-1½ 451 (500-1½)	5340-2	551 (600-2)

41°07'N-111°58'W

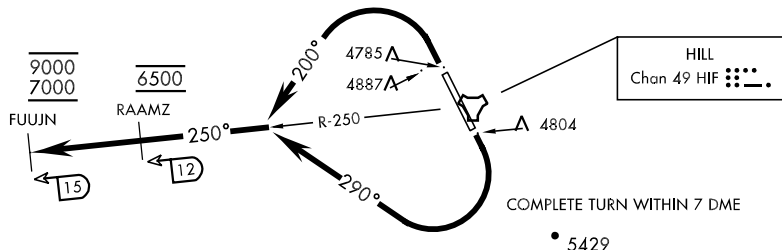
HILL AFB (KHIF)

ATIS 134.925 397.9
 CLNC DEL
 124.1 335.8
 GND CON
 121.6 275.8
 HILL TOWER
 127.15 263.15
 SALT LAKE CITY
 DEP CON
 121.1 319.25
 CLOVER CON
 134.1 285.65

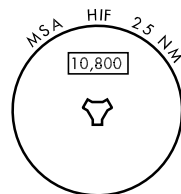
Rwy	Knots	60	120	180	240	300	360
14 (a) V/V(fpm)		580	1160	1740	2320	2900	3480
14 (b) V/V(fpm)		260	520	780	1040	1300	1560
32 (c) V/V(fpm)		660	1320	1980	2640	3300	3960

ATC Climb Rate

- (a) To 5200
- (b) From 5200 to 6300
- (c) To 5700



AIRSPEED IN EXCESS OF 350 KIAS NOT
 AUTHORIZED UNTIL ESTABLISHED:
 RWY 14 HEADING 290°
 RWY 32 HEADING 200°



EMERG SAFE ALT 100 NM 15,600



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, intercept HIF R-250 outbound prior to 12 DME (complete turn within 7 DME), cross RAAMZ at 6500, maintain block 7000 through 9000.

TAKE-OFF RWY 32: Turn left heading 200°, intercept HIF R-250 outbound prior to 12 DME, cross RAAMZ at 6500, maintain block 7000 through 9000.

LOC I-HIF 109.9	APCH CRS 139°	Rwy ldg 13,508 TDZE 4786 Arpt Elev 4789
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AL-296 [USAF]

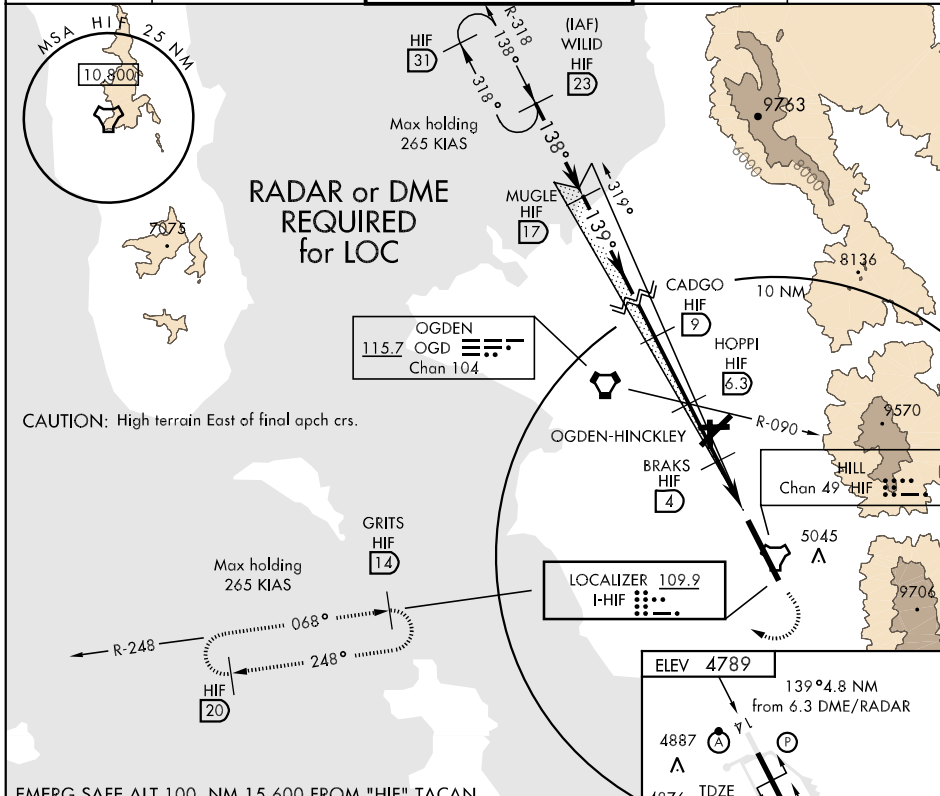
HILL AFB (KHIF)

▼ * When ALS inop, increase RVR to 40 and vis to ¾ mile.
 ** When ALS inop, increase RVR to 50 and vis to 1 mile.
 *** Circling not authorized in sector NE of Rwy 14-32.

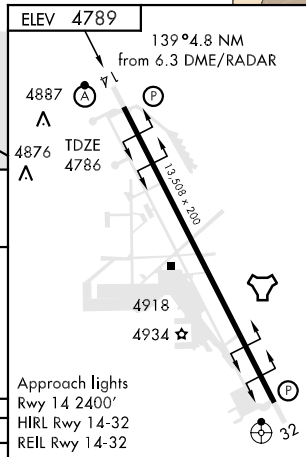
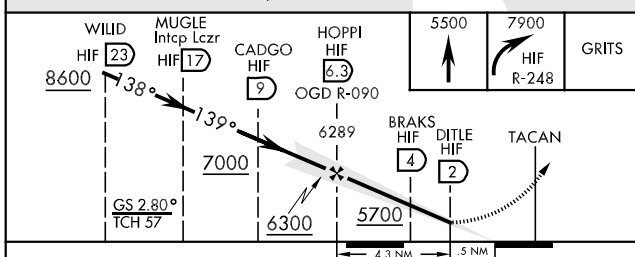


MISSED APPROACH: To 5500, then climbing right turn to 7900 out HIF R-248 to GRITS and hold.

ATIS 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
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EMERG SAFE ALT 100 NM 15,600 FROM "HIF" TACAN



CATEGORY	A	B	C	D	E
S-ILS 14 *	4986/24 200 (200-½)				
S-LOC 14 **	5040/24	254 (300-½)	5040/40	254 (300-¾)	
CIRCLING ***	5240-1	451 (500-1)	5240-1½	5340-2	551 (600-2)
			451(500-1½)		

FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

LOC I-HIF 109.9	APCH CRS 139°	Rwy ldg 13,508 TDZE 4786 Arpt Elev 4789
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AL-296 [USAF]

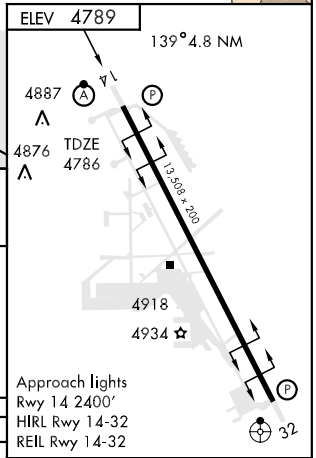
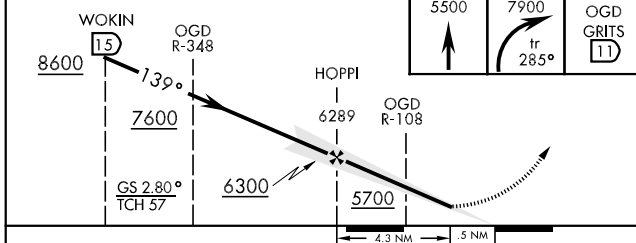
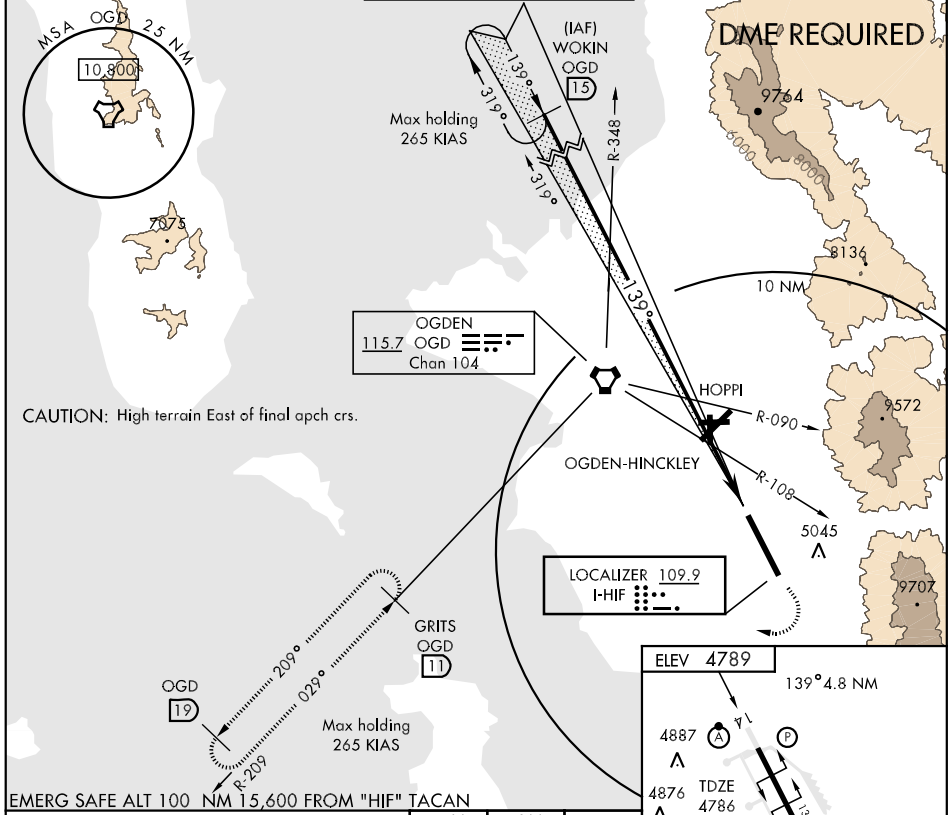
HILL AFB (KHIF)

▼ * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase RVR to 50 and vis to 1 mile.
 *** Circling not authorized in sector NE of Rwy 14-32.



MISSED APPROACH: To 5500, then climbing right turn to 7900, track 285° intercept OGD R-209 to GRITS and hold.

ATIS 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
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CATEGORY	A	B	C	D	E
S-ILS 14 *	4986/24 200 (200-½)				
S-LOC 14 **	5060/24 274 (300-½)		5060/40 274 (300-¾)		
CIRCLING ***	5240-1 451 (500-1)		5240-1½ 451 (500-1½)		5340-2 551 (600-2)

FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

SW-4, 14 JAN 2010 to 11 FEB 2010

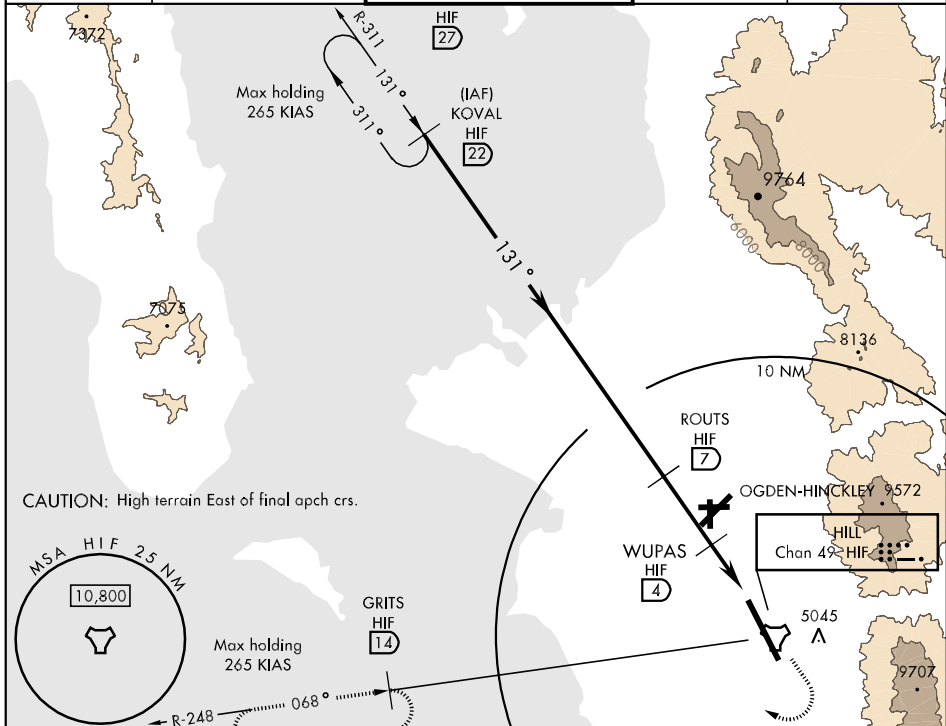
TACAN HIF Chan 49	APCH CRS 131°	Rwy Idg 13,508 TDZE 4786 Arpt Elev 4789	AL-296 [USAF]	HILL AFB (KHIF)
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T * When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1¼ miles.
 ** Circling not authorized in sector NE of Rwy 14-32.

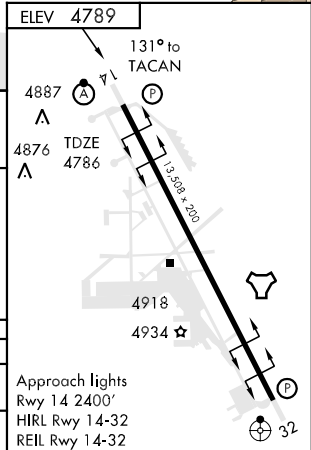
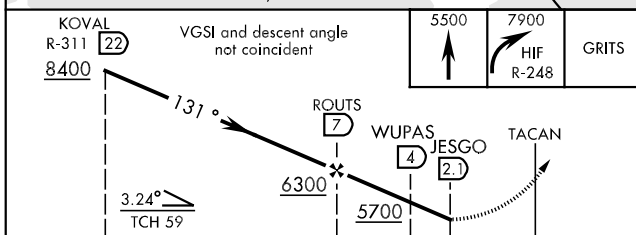
ALSF-2

MISSED APPROACH: To 5500, then climbing right turn to 7900 out HIF R-248 to GRITS and hold.

ATIS 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
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EMERG SAFE ALT 100 NM 15,600 FROM "HIF" TACAN



CATEGORY	A	B	C	D	E
S-14 *	5140/24	354 (400-½)	5140/40	354 (400-¾)	
CIRCLING**	5240-1	451 (500-1)	5240-1½ (451/500-1½)	5340-2	551 (600-2)

OGDEN, UTAH

Amdt 2 06327

41°07'N-111°58'W

HILL AFB (KHIF)

WILLARD 1 (VECTOR) DP (WLLRD1 • WLLRD)

FILE 7-10 (RNM)

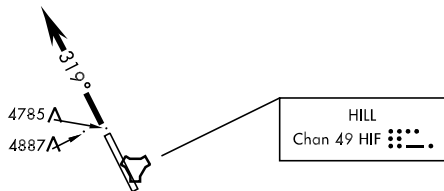
OGDEN, UTAH

ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65

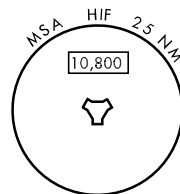
SHL-296 [USAF]

Rwy	Knots	60	120	180	240	300	360
32	V/V(fpm)	660	1320	1980	2640	3300	3960

ATC Climb Rate to 5700



• 5429



EMERG SAFE ALT 100 NM 15,600



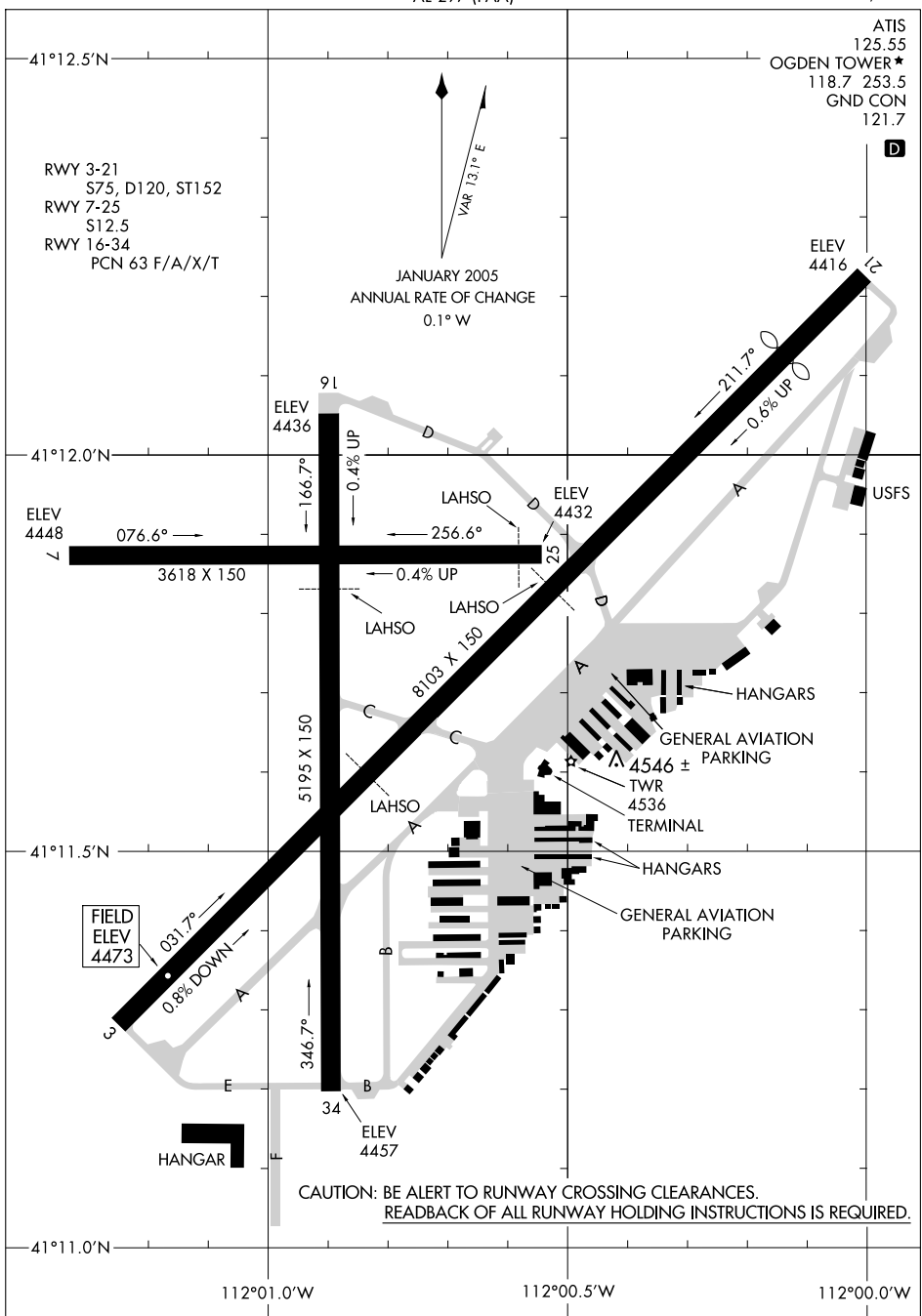
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 32: Track heading 319°, maintain 7000.

AIRPORT DIAGRAM

AL-297 (FAA)

OGDEN-HINCKLEY (OGD)
OGDEN, UTAH



SW-4, 14 JAN 2010 to 11 FEB 2010

TAKE-OFF OBSTACLE NOTES

- Rwy 3: Multiple trees beginning 376' from DER, 62' left of centerline, up to 42' AGL/4451' MSL.
 Tree 430' from DER, 503' right of centerline, 46' AGL/4455' MSL.
 Flagpole 348' from DER, 583' right of centerline, 42' AGL/4451' MSL.
 Lightpole 241' from DER, 535' left of centerline, 38' AGL/4447' MSL.
 Pole 628' from DER, 611' right of centerline, 45' AGL/ 4454' MSL.
 OL on DME 195' from DER, 268' right of centerline, 17' AGL/ 4426' MSL.
 Road 231' from DER, 470' right of centerline, 14' AGL/ 4423' MSL.
 Lightpole 396' from DER, 385' right of centerline, 16' AGL/ 4425' MSL.
 Road 158' from DER, 307' left of centerline, 10' AGL/4419' MSL.
- Rwy 21: Multiple trees and poles beginning 702' from DER, 6' left of centerline, up to 98' AGL/4570' MSL.
 Multiple trees beginning 2001' from DER, 421' right of centerline, up to 89' AGL/ 4561' MSL.
 Rod on building 2465' from DER, 858' left of centerline, 62' AGL/4541' MSL.
- Rwy 25: Multiple trees and bushes beginning 188' from DER, 244' left of centerline, up to 81' AGL/ 4528' MSL.
 Tank 1229' from DER, 566' left of centerline, 64' AGL/4494' MSL.
 Lightpole 1038' from DER, 69' left of centerline, 31' AGL/ 4478' MSL.
 Lightpole 942' from DER, 30' right of centerline, 30' AGL/ 4477' MSL.
 Bush 202' from DER, 80' right of centerline, 8' AGL/ 4455' MSL.
- Rwy 34: Multiple trees beginning 210' from DER, 186' left of centerline, up to 11' AGL/4447' MSL.
 Multiple trees beginning 293' from DER, 87' right of centerline, up to 43' AGL/4479' MSL.

ATIS 125.55

GND CON

121.7

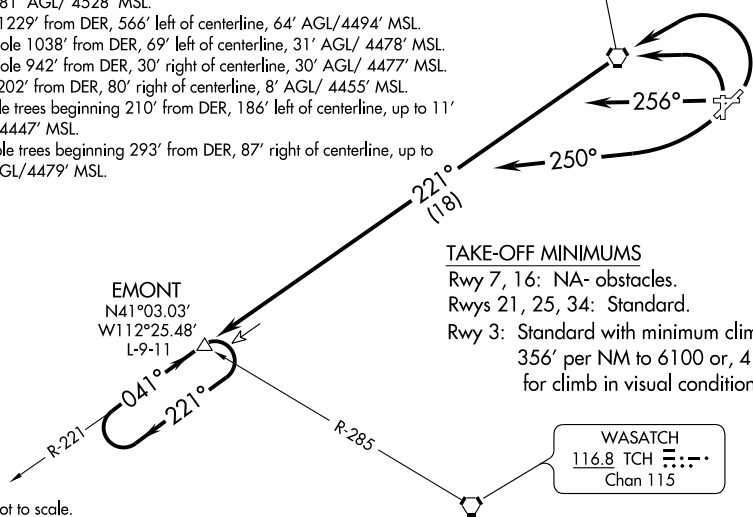
OGDEN TOWER ★

118.7 253.5

SALT LAKE CITY DEP CON

121.1 319.25

OGDEN
 115.7 OGD 
 Chan 104
 N41°13.45'-W120°05.90'



TAKE-OFF MINIMUMS

Rwy 7, 16: NA- obstacles.

Rwys 21, 25, 34: Standard.

Rwy 3: Standard with minimum climb of
 356' per NM to 6100 or, 4100-3
 for climb in visual conditions.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climbing left turn direct OGD VORTAC then via OGD R-221 to EMONT INT/ OGD 18 DME, thence.... Or, climb in visual conditions to cross OGD VORTAC southwest bound at or above 8500, then on OGD R-221 to EMONT INT/ OGD 18 DME, thence....

TAKE-OFF RUNWAY 21: Climbing right turn heading 250° to intercept OGD R-221 to EMONT INT/ OGD 18 DME, thence....

TAKE-OFF RUNWAY 25: Climb heading 256° to intercept OGD R-221 to EMONT INT/ OGD 18 DME, thence....

TAKE-OFF RUNWAY 34: Climbing left turn direct OGD VORTAC then via OGD R-221 to EMONT INT/ OGD 18 DME, thence....

....Climb in EMONT INT holding pattern to MEA/MCA for assigned route of flight.

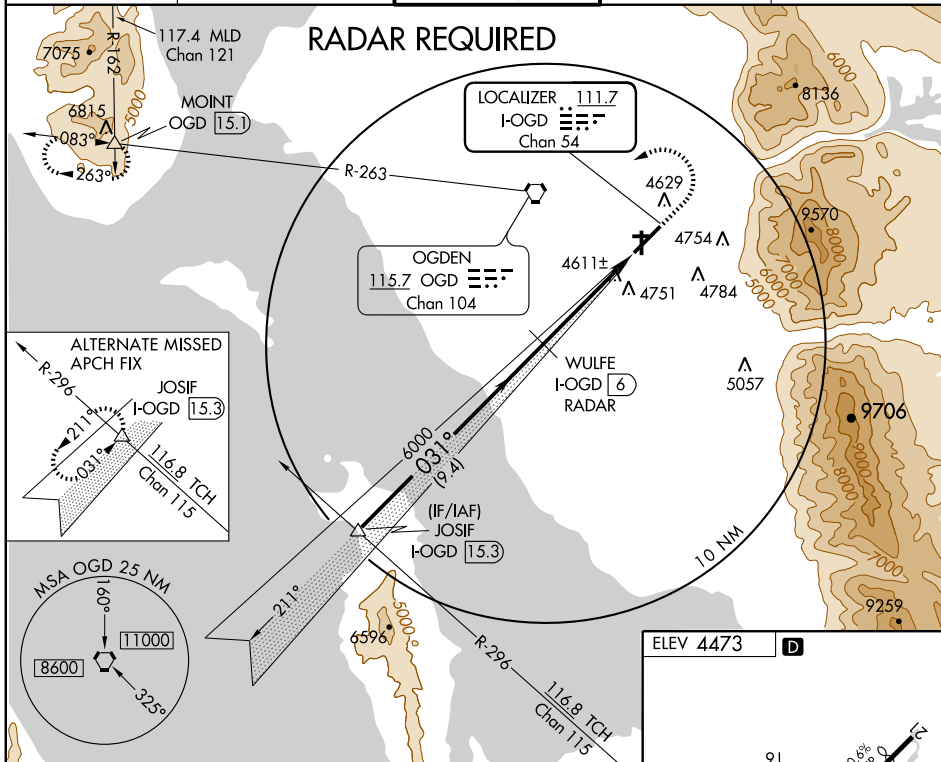
LOC/DME I-OGD	APP CRS	Rwy Idg	7252
111.7	031°	TDZE	4473
Chan 54		Apt Elev	4473

ILS or LOC RWY 3 OGDEN-HINCKLEY (OGD)

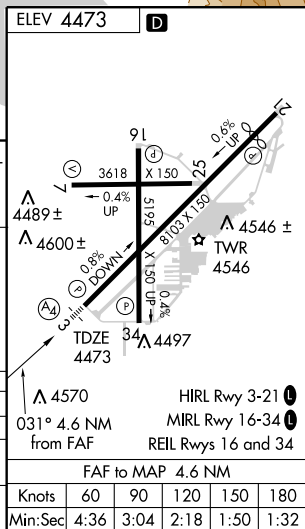
▼ When VGSI inoperative, circling Rwy 7 and 16 NA at night.
▲ DME or RADAR required.
 Inoperative table does not apply to S-ILS-3 and S-LOC-3 Cat C.
 When local altimeter setting not received, use Hill AFB altimeter setting.

MALS
 MISSED APPROACH: Climb to 4900, then climbing left turn to 6000 direct OGD VORTAC, then climb to 13000 via OGD R-263 to MOINT INT/OGD 15.1 DME and hold, continue climb-in-hold to 13000.

ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER★ 118.7 (CTAF) 253.5	GND CON 121.7	UNICOM 122.95
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JOSIF I-OGD 15.3	WULFE I-OGD 6 RADAR	4900	6000	OGD 115.7	13000	MOINT
Procedure Turn NA				OGD R-263		
GS 3.00° TCH 49	031°	6000		I-OGD 2.5	I-OGD 1.4	
9.4 NM	3.5 NM	1.1 NM				
CATEGORY	A	B	C	D		
S-ILS 3	4673-¾	200 (200-¾)				
S-LOC 3	4880-¾	407 (500-¾)	4880-1¼	407 (500-1¼)		
CIRCLING	4980-1 507 (600-1)	5060-1 587 (600-1)	5060-1½ 587 (600-1½)	5100-2 627 (700-2)		



RNAV (GPS) Y RWY 3

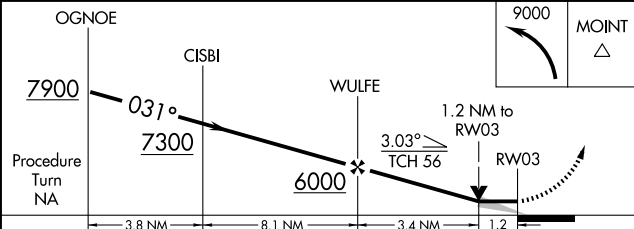
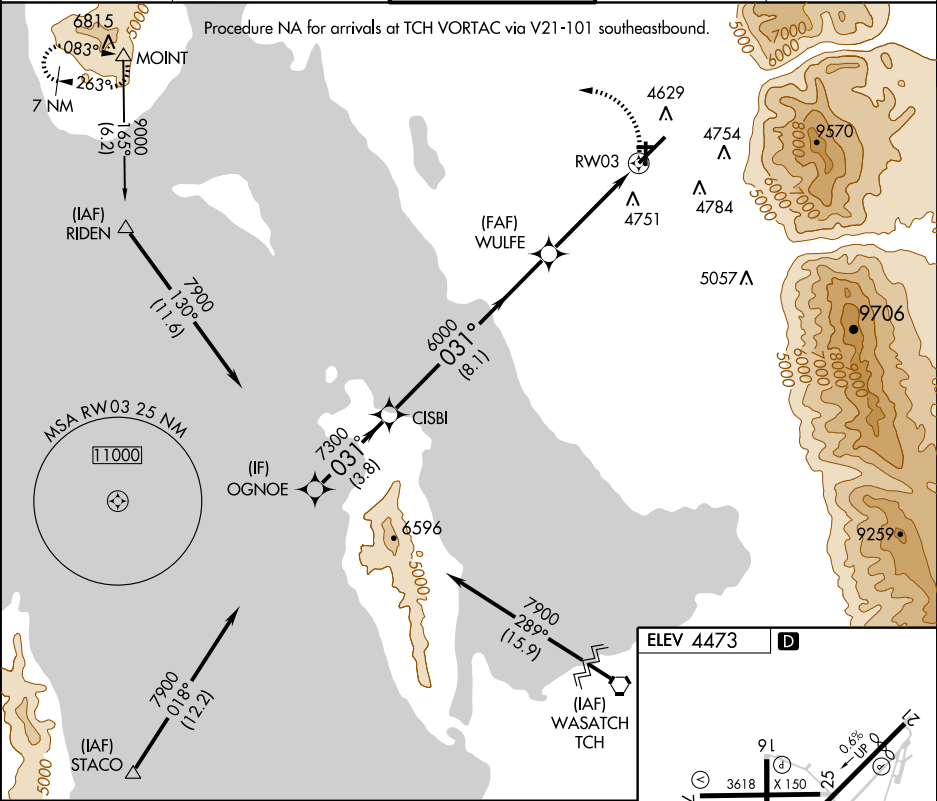
OGDEN-HINCKLEY (OGD)

APP CRS	Rwy Idg	7252
031°	TDZE	4473
	Apt Elev	4473

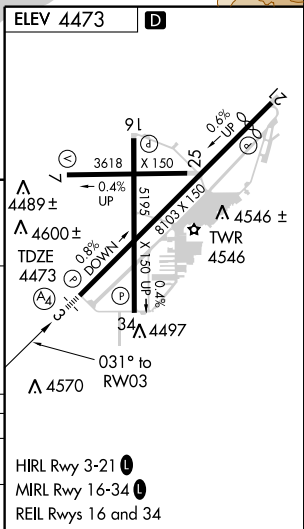
▼ DME/DME RNP- 0.3 NA.
▲ When local altimeter setting not received, use Hill AFB altimeter setting.
When VGSI inoperative, circling Rwy 7 and 16 NA at night.
Inoperative table does not apply to LNAV Cat C.

MALS
MISSED APPROACH: Climbing left turn to 9000 direct MOINT and hold, continue climb-in-hold to 9000.

ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER★ 118.7 (CTAF) 253.5	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	4920-3/4 447 (500-3/4)	4920-1 1/4 447 (500-1 1/4)	4920-1 1/2 447 (500-1 1/2)	5100-2 627 (700-2)
CIRCLING	4980-1 507 (600-1)	5060-1 587 (600-1)	5060-1 1/2 587 (600-1 1/2)	



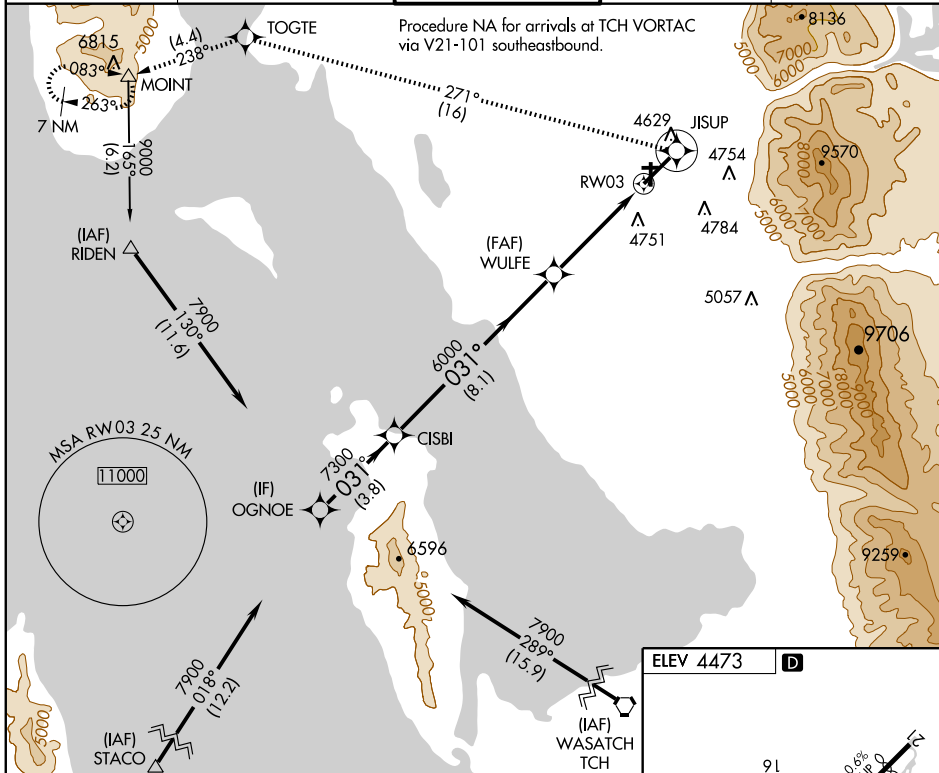
WAAS CH 65620 W03A	APP CRS 031°	Rwy Idg 7252 TDZE 4473 Apt Elev 4473
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RNAV (GPS) Z RWY 3

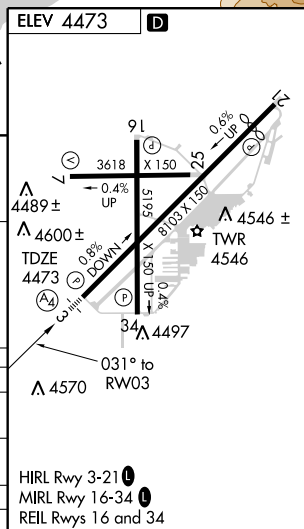
OGDEN-HINCKLEY (OGD)

	DME/DME RNP-0.3 NA. When local altimeter setting not received, use Hill AFB altimeter setting. Inoperative table does not apply.	MALS	MISSED APPROACH: Climb to 9000 direct JISUP and via 271° track to TOGTE and via 238° track to MOINT and hold, continue climb-in-hold to 9000.
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ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER* 118.7 (CTAF) 0 253.5	GND CON 121.7	UNICOM 122.95
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Procedure Turn NA	OGNOE		9000 ↑	JISUP 	271° track	TOGTE 	238° track	MOINT △
	7900	CISBI	WULFE			VGS1 and RNAV glidepath not coincident.		
GS 3.00° TCH 49	7300	037°	6000				RW03	
	← 3.8 NM	← 8.1 NM	← 4.6 NM					
CATEGORY	A	B	C	D				
LPV DA	4890-1½ 417 (500-1½)							
LNAV/ VNAV DA	NA							
LNAV MDA	NA							
CIRCLING	NA							



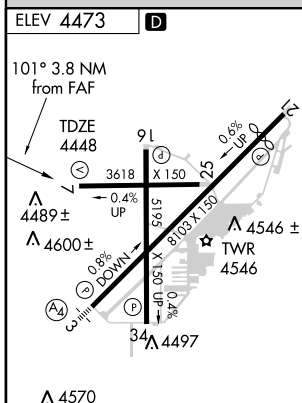
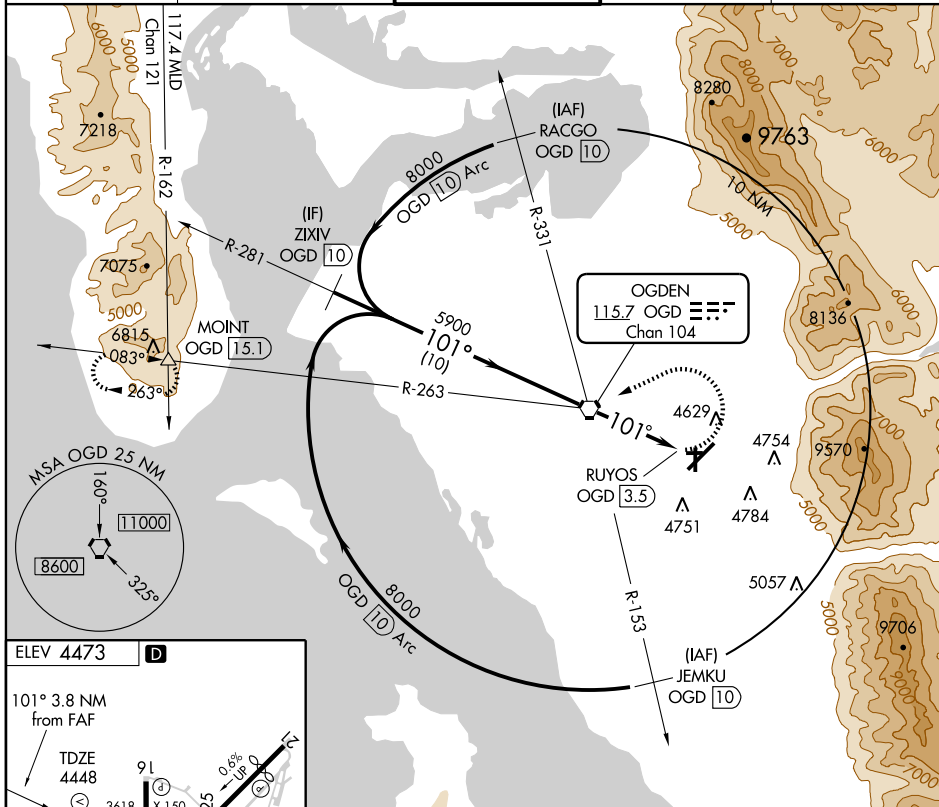
VORTAC OGD <u>115.7</u> Chan 104	APP CRS 101°	Rwy Idg 3618 TDZE 4448 Apt Elev 4473
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VOR/DME RWY 7
OGDEN-HINCKLEY (OGD)

▼ When local altimeter setting not received, use Hill AFB altimeter setting.
When VGSI inoperative, straight-in/circling Rwy 7 procedure NA at night.
When VGSI inoperative, circling Rwy 16 NA at night.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct OGD VORTAC and via OGD VORTAC R-263 to MOINT/15.1 DME and hold, continue climb-in-hold to 9000.

ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER★ 118.7 (CTAF) 0 253.5	GND CON 121.7	UNICOM 122.95
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HIRL Rwy 3-21 **L**
MIRL Rwy 16-34 **L**
REIL Rwy 16 and 34

ZIXIV OGD 10 8000 Procedure Turn NA VORTAC 5900 107° 3.49° TCH 50 10 NM 3.5 NM 0.3 9000 OGD 115.7 OGD R-263 MOINT △ RUYOS OGD 3.5					
CATEGORY	A		B	C	D
S-7	4900-1		452 (500-1)	4900-1¼ 452 (500-1¼)	4900-1½ 452 (500-1½)
CIRCLING	4980-1 507 (600-1)	5060-1 587 (600-1)	5060-1½ 587 (600-1½)	5100-2 627 (700-2)	

LOC/DME I-PUC 109.35 Chan 30 (Y)	APP CRS 004°	Rwy Idg TDZE Apt Elev 8313 5863 5957
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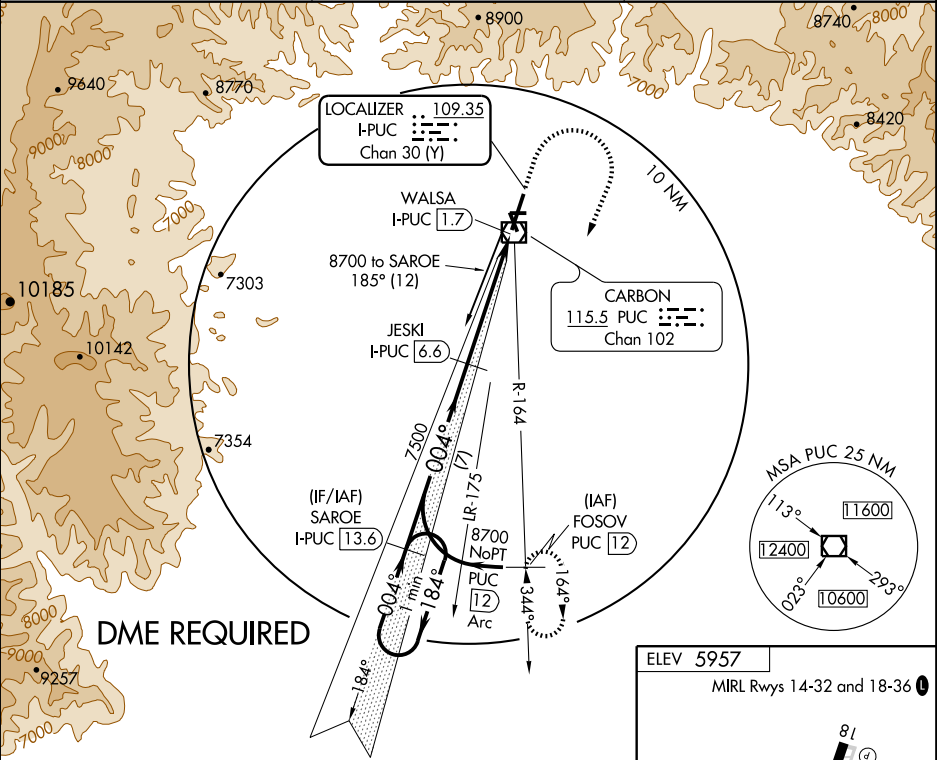
ILS or LOC/DME RWY 36

PRICE/CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

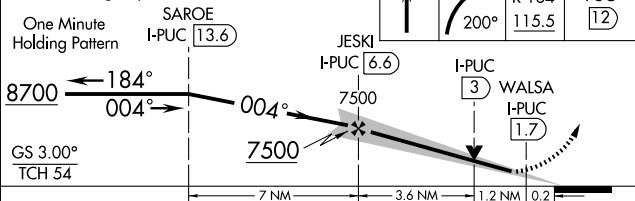
▼ Inoperative table does not apply.
▲ NA Circling NA at night to Rwy 18, 25, and 32.

MALSF MISSED APPROACH: Climb to 6400, then climbing right turn to 10000 via heading 200° and PUC VOR/DME R-164 to FOSOV/PUC VOR/DME 12 DME and hold, continue climb-in-hold to 10000.

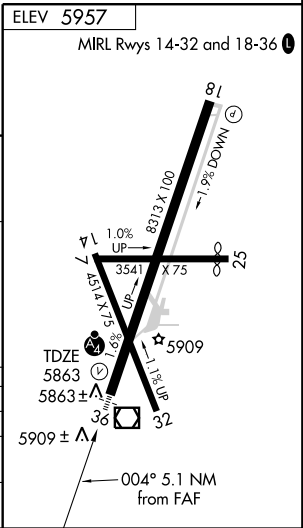
ASOS 135.425	SALT LAKE CENTER 133.9 370.85	UNICOM 122.8 (CTAF) 0
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Use I-PUC DME when on the localizer course.
VGSI and ILS glidepath not coincident



CATEGORY	A	B	C	D
S-ILS 36	6114-1	251 (200-1)		
S-LOC 36	6240-1	377 (300-1)		6240-1¼ 377 (300-1¼)
CIRCLING	6660-1 703 (800-1)	6740-1¼ 783 (800-1¼)	6820-2½ 863 (900-2½)	6980-3 1023 (1100-3)



APP CRS 004°	Rwy Idg TDZE Apt Elev	8313 5835 5953
------------------------	-----------------------------	---

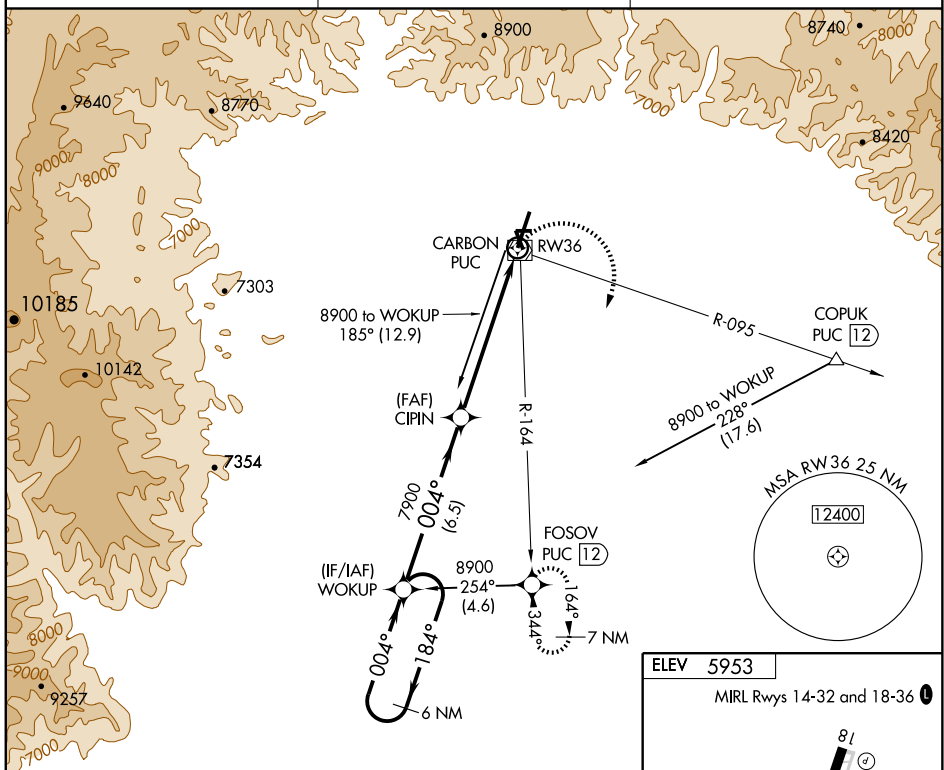
RNAV (GPS) RWY 36

PRICE/ CARBON COUNTY RGNL/BUCK DAVIS FIELD AIRPORT (PUC)

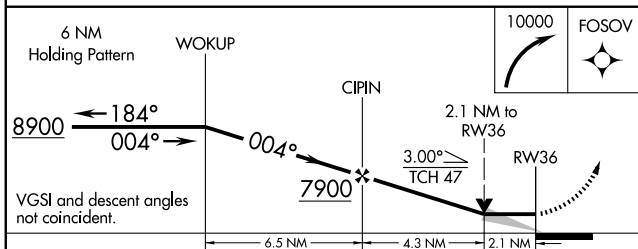
NA	Circling not authorized at night to Rwy 18, 25, and 32. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MALS	MISSED APPROACH: Climbing right turn to 10000 direct FOSOV WP and hold.
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ASOS
135.425

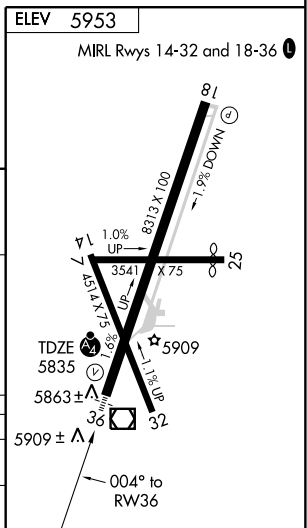
SALT LAKE CENTER
133.9 370.85

UNICOM
122.8 (CTAF) **L**

Procedure NA for arrival at COPUK via V134 eastbound.



CATEGORY	A	B	C	D
INAV MDA	6400-1	565 (500-1)	6400-1½ 565 (500-1½)	6400-1¾ 565 (500-1¾)
CIRCLING	6660-1 707 (800-1)	6740-1¼ 787 (800-1¼)	6820-2½ 867 (900-2½)	6980-3 1027 (1100-3)



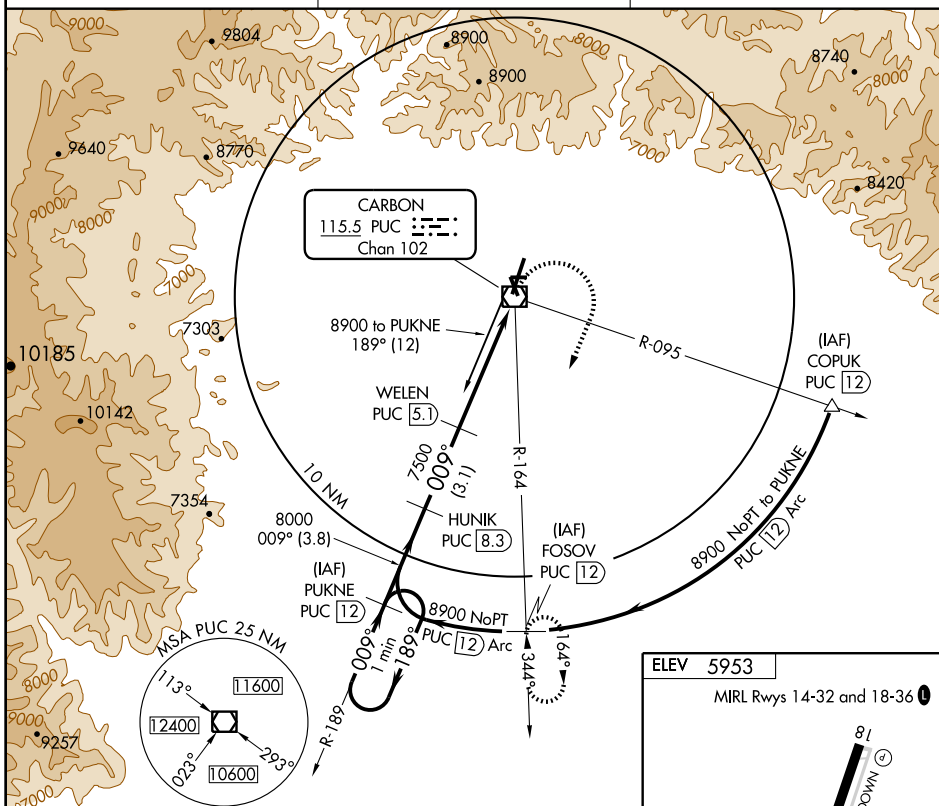
AL-681 (FAA)

VOR/DME RWY 36
PRICE/CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

MALSF

MISSED APPROACH: Climbing right turn to 10000 via heading 200° and PUC VOR/DME R-164 to FOSOV/12 DME and hold.

SALT LAKE CENTER
133.9 370.85

UNICOM
122.8 (CTAF) **L**

One Minute Holding Pattern

PUKNE PUC 12

HUNIK PUC 8.3

WELYN PUC 5.1

10000

200°

PUK R-164 115.5

FOSOV PUC 12

8900 ← 189°

009° →

009°

8000

7500

3.00° TCH 47

PUC 1.4

VOR/DME

VGSI and descent angles not coincident

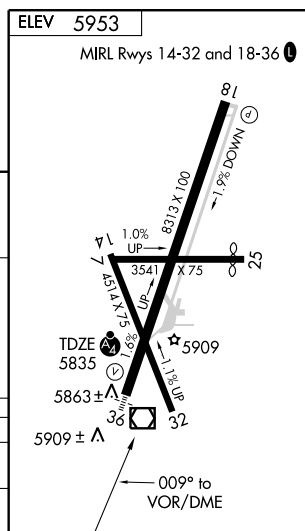
3.8 NM

3.1 NM

3.7 NM

1.5

CATEGORY	A	B	C	D
S-36	6240-1 405 (300-1)		6240-1 1/4 405 (300-1 1/4)	
CIRCLING	6660-1 707 (800-1)	6740-1 787 (800-1 1/4)	6820-2 1/2 867 (900-2 1/2)	6980-3 1027 (1100-3)



SW-4. 14 JAN 2010 to 11 FEB 2010

VOR/DME PUC
115.5
Chan 102

APP CRS
009°

Rwy Idg
TDZE
Apt Elev

8313
5835
5953

V

A

Circling NA at night to Rwy 18, 25, and 32.

MALSF

2

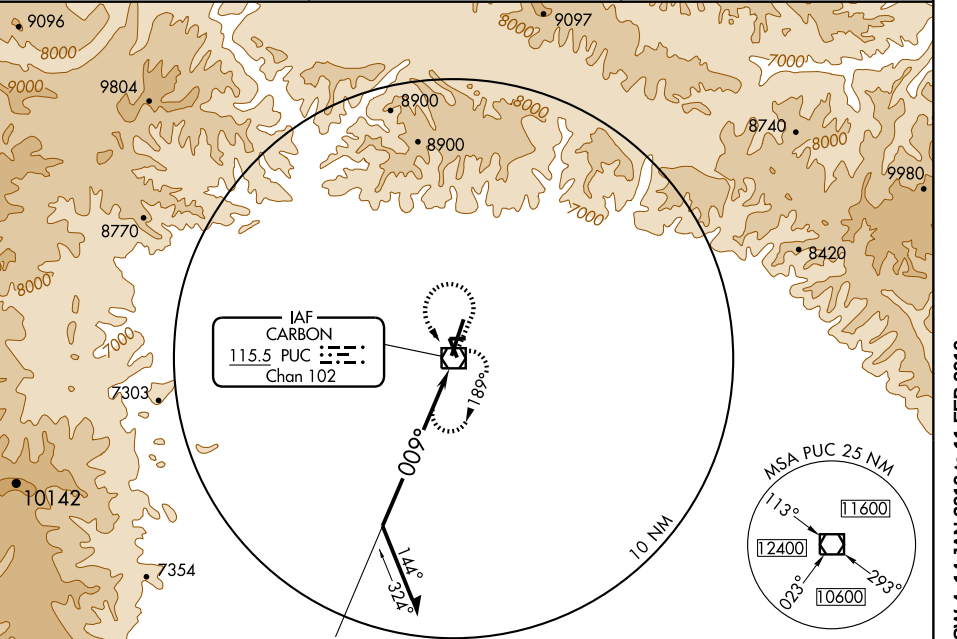
3

2

3

MISSED APPROACH: Climb to 8200, then climbing left turn to 10400 direct PUC VOR/DME and hold.

ASOS 135.425	SALT LAKE CENTER 133.9 370.85	UNICOM 122.8 (CTAF) 0
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Remain within 10 NM

VOR/DME*

8200

10400

PUC
115.5

9000

189°

009°

PUC
7.6

7.6 NM

* Maintain 9900 or above until established outbound for PT

CATEGORY	A	B	C	D
S-36	7880-1¼ 2045 (2000-1¼)	7880-1½ 2045 (2000-1½)	7880-3	2045 (2000-3)
CIRCLING	7880-1¼ 1927 (2000-1¼)	7880-1½ 1927 (2000-1½)	7880-3	1927 (2000-3)

ELEV 5953

MIRL Rwy 14-32 and 18-36 0

81

1.0% UP

8213 X 100

1.9% DOWN

3541

75

25

TDZE
5835
5863 ±

5909

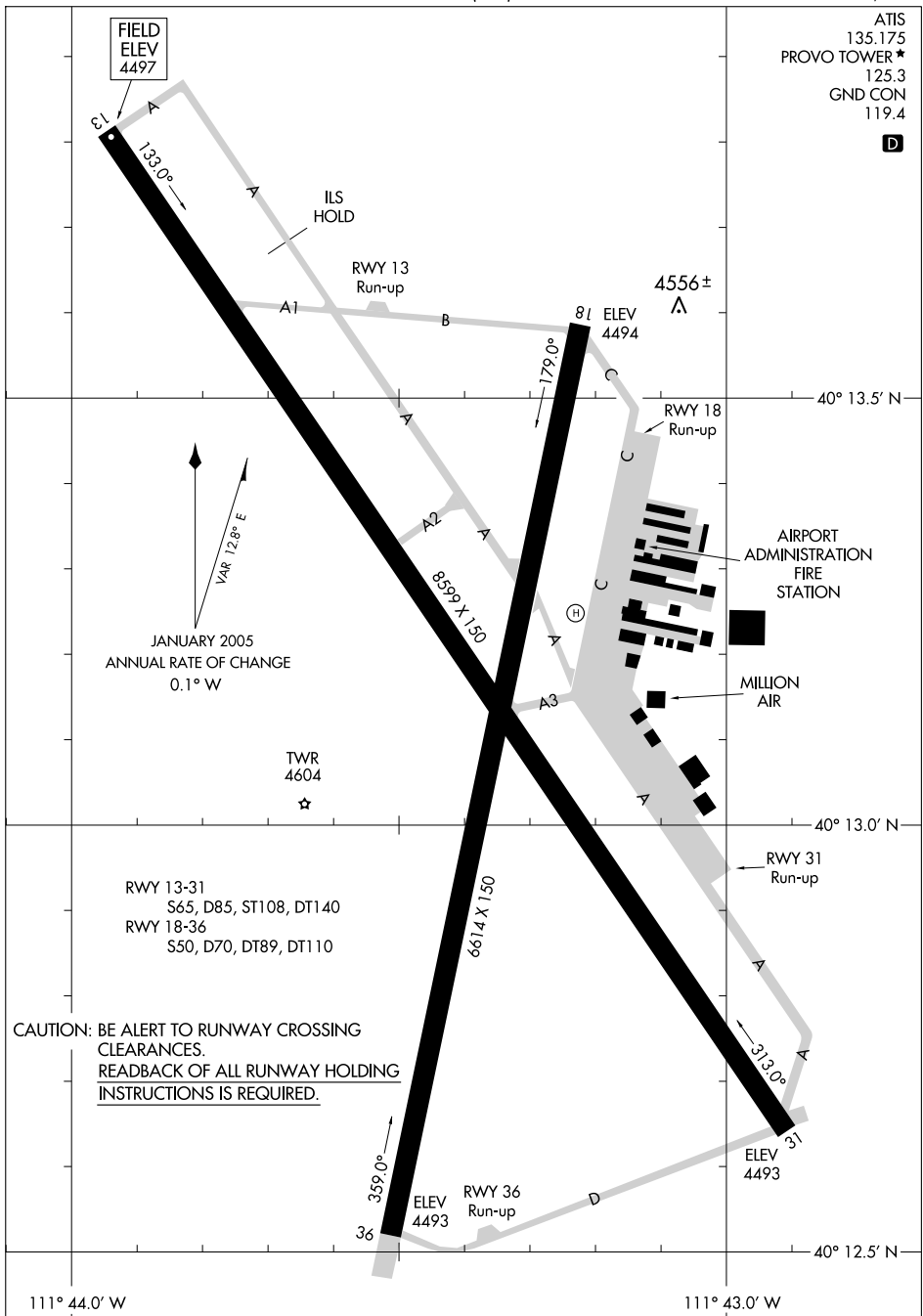
5909 ± A

009° to VOR/DME

AIRPORT DIAGRAM

AL-683 (FAA)

PROVO MUNI (PVU)
PROVO, UTAH

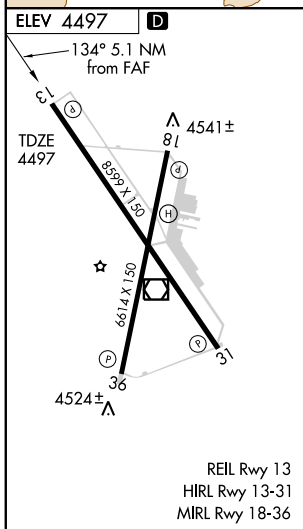
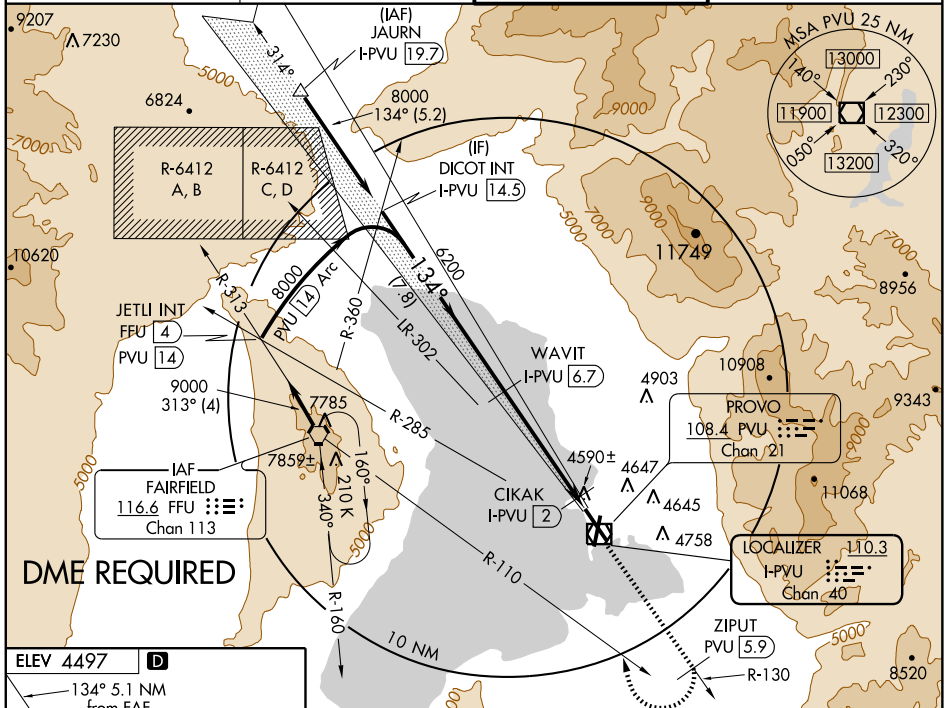


LOC/DME I-PVU 110.3 Chan 40	APP CRS 134°	Rwy Idg TDZE Apt Elev 8599 4497 4497
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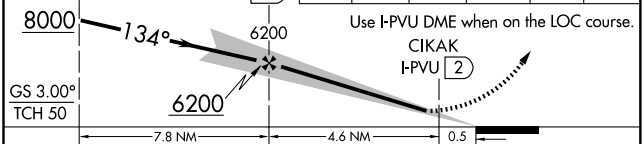
ILS or LOC/DME RWY 13 PROVO MUNI (PVU)

⚠ Circling NA East of Rws 18 and 31. *Missed approach requires minimum climb of 315 feet per NM to 8600.	MISSED APPROACH: Climb to 9000 via heading 134° to intercept PVU VOR/DME R-130 to ZIPUT/PVU 5.9 DME then climbing right turn via heading 330° and FFU VORTAC R-110 to FFU VORTAC and hold.
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ATIS 135,175	SALT LAKE CITY APP CON 124.3 322.3	PROVO TOWER ★ 125.3 (CTAF)	GND CON 119.4
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DICOT INT I-PVU 14.5	Procedure Turn NA	WAVIT I-PVU 6.7	9000	PVU R-130 108.4	ZIPUT PVU 5.9	FFU R-110 116.6
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CATEGORY	A	B	C	D
S-ILS 13*	4697-3/4 200 (200-3/4)			
S-LOC 13*	4820-1 323 (400-1)			
CIRCLING*	4900-1 403 (500-1)	4960-1 463 (500-1)	4980-1 483 (500-1 1/2)	5060-2 563 (600-2)
S-ILS 13	4947-1 1/2 450 (500-1/2)			
S-LOC 13	5100-1	603 (700-1)	5100-1 3/4 603 (700-3/4)	5100-2 603 (700-2)
CIRCLING	5100-1	603 (700-1)	5100-1 3/4 603 (700-3/4)	5100-2 603 (700-2)

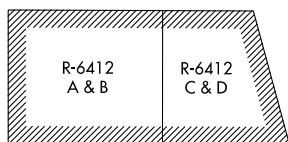
PROVO FOUR DEPARTURE (OBSTACLE)

ATIS 135.175
GND CON 119.4
PROVO TOWER *
125.3 (CTAF)
SALT LAKE CITY DEP CON
118.85

TAKE-OFF MINIMUMS

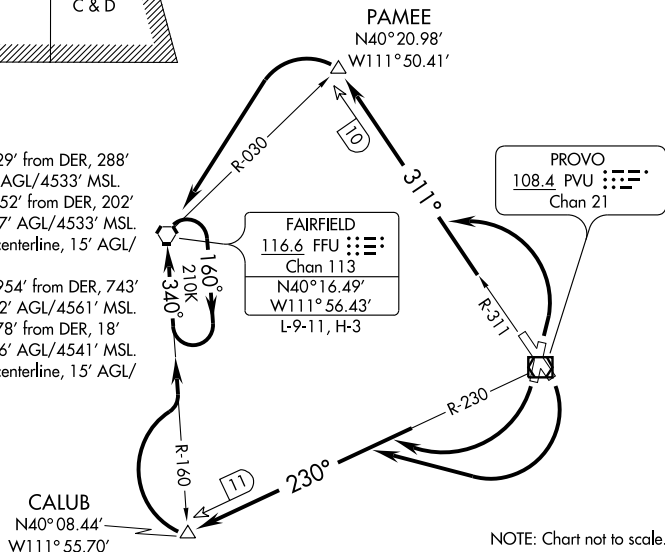
- Rwy 13: Standard with a minimum climb of 400' per NM to 9000, or 3100-3 for climb in visual conditions.
Rwy 18: Standard with a minimum climb of 350' per NM to 9000, or 3100-3 for climb in visual conditions.
Rwy 31: Standard with a minimum climb of 380' per NM to 9000, or 3100-3 for climb in visual conditions.
Rwy 36: Standard with a minimum climb of 365' per NM to 9000, or 3100-3 for climb in visual conditions.

NOTE: Climb in visual conditions NA at night.



TAKE-OFF OBSTACLE NOTES

- Rwy 18: Multiple trees beginning 429' from DER, 288' left of centerline, up to 57' AGL/4533' MSL.
Multiple trees beginning 852' from DER, 202' right of centerline, up to 57' AGL/4533' MSL.
Road 775' from DER, on centerline, 15' AGL/4518' MSL.
Rwy 31: Multiple trees beginning 1954' from DER, 743' right of centerline, up to 72' AGL/4561' MSL.
Rwy 36: Multiple trees beginning 978' from DER, 18' right of centerline, up to 46' AGL/4541' MSL.
Road 210' from DER, on centerline, 15' AGL/4516' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13, 18: Climbing right turn to 9000 via PVU VOR/DME R-230 to CALUB INT/PVU 11 DME and a right turn via FFU VORTAC R-160 to FFU VORTAC and hold. Thence.... or climb in visual conditions to cross Provo Muni Airport southwest bound at or above 7400, climb to 9000 via PVU R-230 to CALUB INT/PVU 11 DME and right turn via FFU R-160 to FFU VORTAC and hold. Thence...

TAKE-OFF RUNWAY 31: Climb to 9000 via PVU VOR/DME R-311 to PAMEE INT/PVU 10 DME and left turn direct FFU VORTAC and hold. Thence.... or climb in visual conditions to cross Provo Muni Airport northwest bound at or above 7400, climb to 9000 via PVU R-311 to PAMEE INT/PVU 10 DME and left turn direct FFU VORTAC and hold. Thence...

TAKE-OFF RUNWAY 36: Climbing left turn to 9000 via PVU VOR/DME R-311 to PAMEE INT/PVU 10 DME and left turn direct FFU VORTAC and hold. Thence.... or climb in visual conditions to cross Provo Muni Airport northwest bound at or above 7400, climb to 9000 via PVU R-311 to PAMEE INT/PVU 10 DME, and left turn direct FFU VORTAC and hold. Thence...

....Expect clearance for filed route and altitude within 10 minutes after departure.

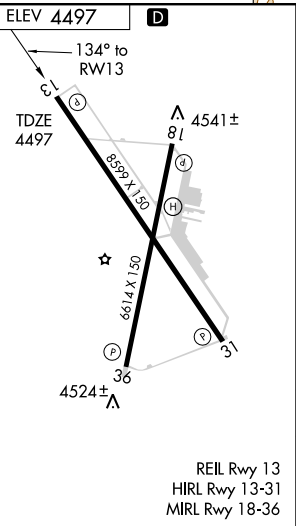
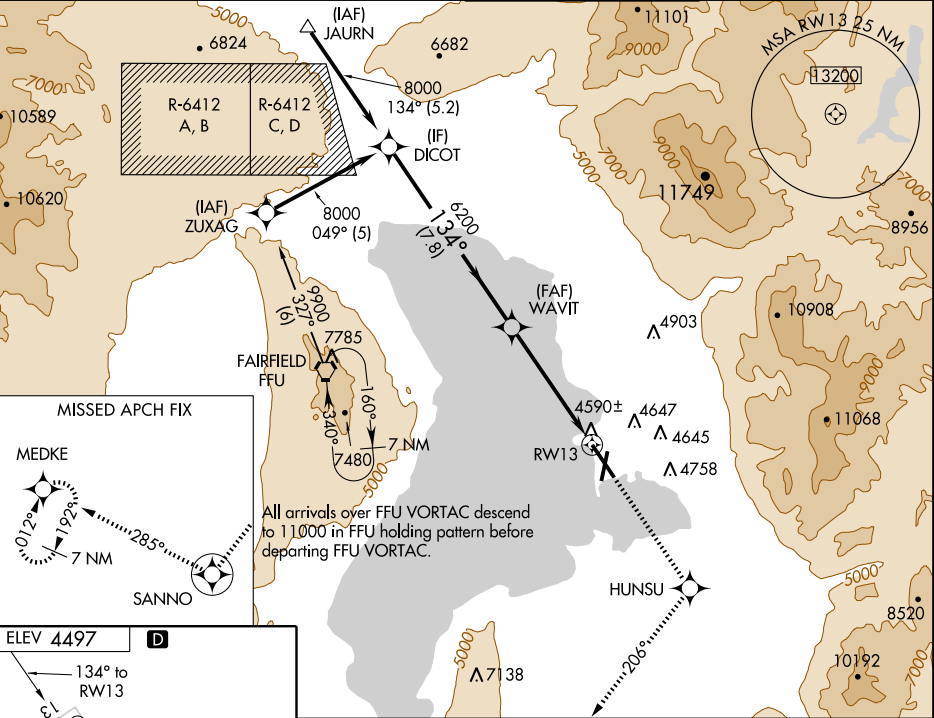
WAAS CH 97307 W13A	APP CRS 134°	Rwy Idg TDZE Apt Elev 8599 4497
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RNAV (GPS) RWY 13
PROVO MUNI (PVU)

⚠ Circling NA East of Rws 18 and 31.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -23°C (-9°F) or above 40°C (104°F).
DME/DME RNP: 0.3 NA.

MISSED APPROACH: Climb to 10300 direct HUNSU and
via track 206° to SANNO and via track 285° to MEDKE
and hold, continue climb-in-hold to 10300.

ATIS 135.175	SALT LAKE CITY APP CON 124.3 322.3	PROVO TOWER ★ 125.3 (CTAF)	GND CON 119.4
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Procedure Turn NA	DICOT	10300 ↑	HUNSU ★	trk 206°	SANNO ★	trk 285°	MEDKE ★
8000	134°	6200	WAVIT	* 1.6 NM to RWY13	RWY13		
GS 3.00° TCH 50	7.8 NM	3.5 NM	1.6 NM				
CATEGORY	A	B	C	D			
LPV DA	4770-1	273 (300-1)					
LNAV/ VNAV DA	4940-1½	443 (500-1½)					
LNAV MDA	5040-1	543 (600-1)	5040-1½ 543 (600-1½)	5040-1¾ 543 (600-1¾)			
CIRCLING	5040-1	543 (600-1)	5040-1½ 543 (600-1½)	5060-2 563 (600-2)			

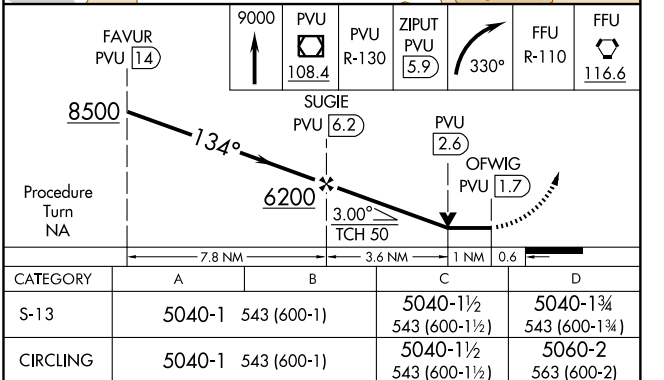
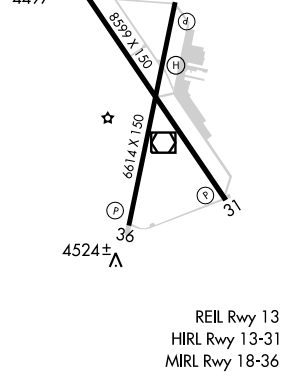
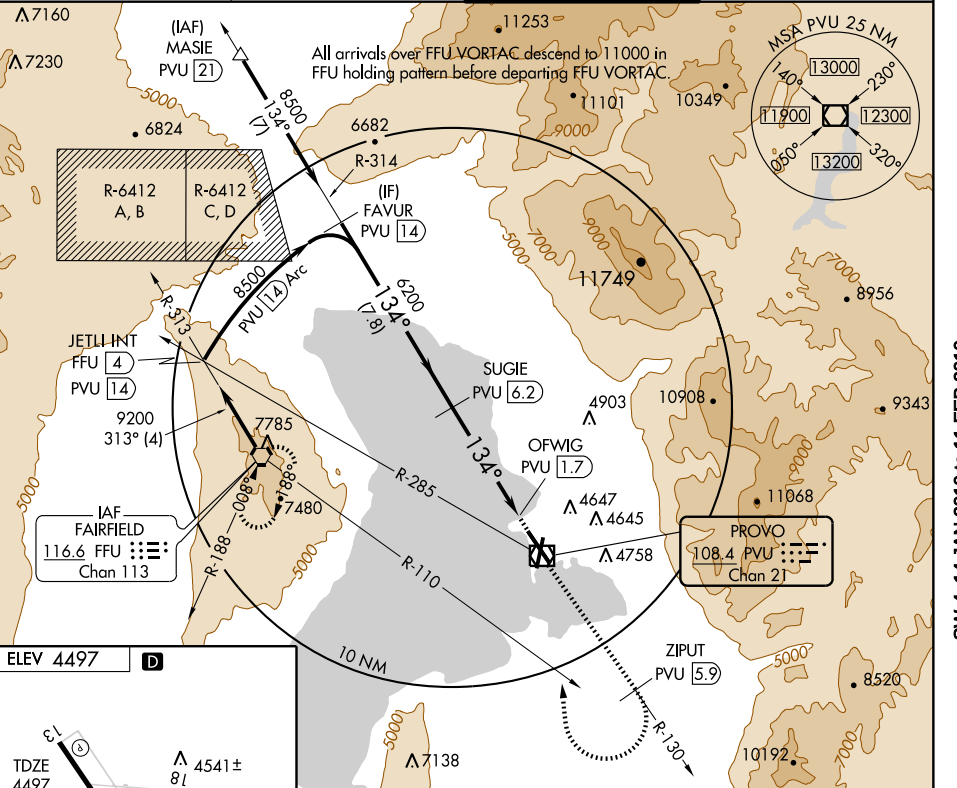
⚠

Circling NA East of Rwys 18 and 31.

MISSED APPROACH:

Climb to 9000 direct PVU VOR/DME and PVU R-130 to ZIPUT/5.9 DME then climbing right turn via heading 330° and FFU VORTAC R-110 to FFU VORTAC and hold.

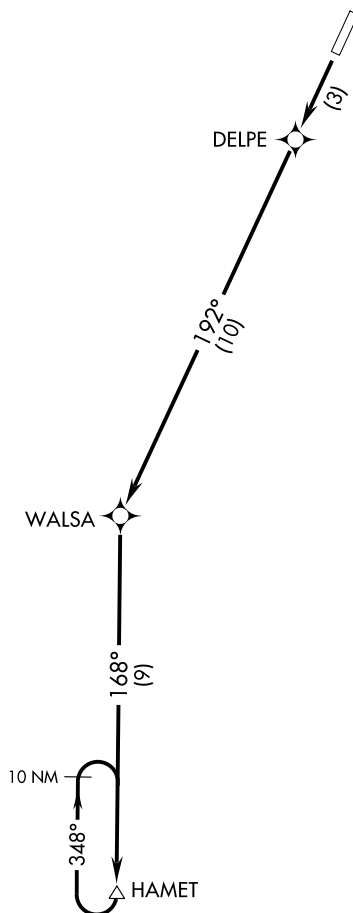
ATIS 135.175	SALT LAKE CITY APP CON 124.3 322.3	PROVO TOWER★ 125.3 (CTAF)	GND CON 119.4
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SW-4, 14 JAN 2010 to 11 FEB 2010

HAMET TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CITY CENTER
133.6 269.25
UNICOM 122.8 (CTAF)
AWOS-3 133.375



NOTE: GPS Required.

NOTE: RNAV 1

TAKE-OFF MINIMUMS

Rwy 1: NA-ATC.

Rwy 19: Standard with a minimum climb of 382' per NM to 14700.

TAKE-OFF OBSTACLE NOTE

Rwy 19: Road 0' from DER, 400' right of centerline, 15' AGL/5334' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19: Climb direct DELPE, then via 192° track/10 to WALSA, then via 168° track/9 to HAMET. Continue climb-in-hold at HAMET to 16000 before proceeding on course.

RICHFIELD ONE DEPARTURE (RNAV) (OBSTACLE)

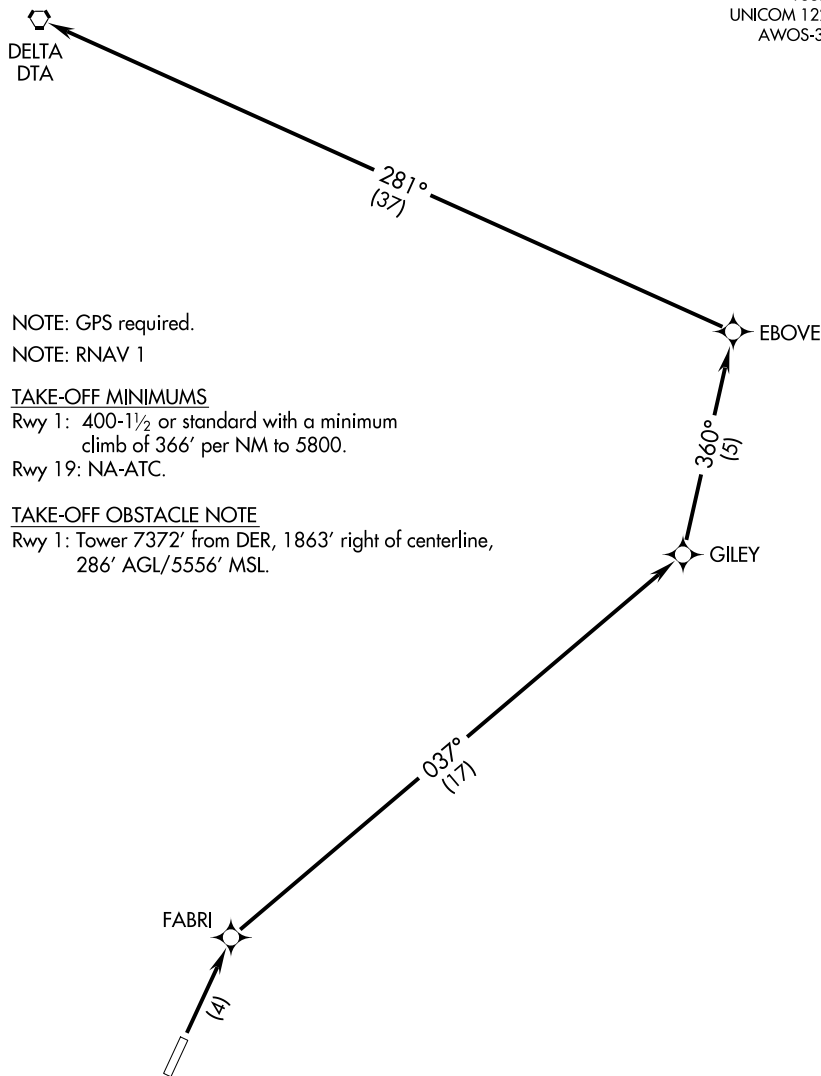
RICHFIELD, UTAH

SALT LAKE CITY CENTER

133.6 269.25

UNICOM 122.8 (CTAF)

AWOS-3 133.375



SW-4, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb direct FABRI, then via 037° track/17 to GILEY, then via 360° track/5 to EBOVE, then via 281° track/37 to DELTA VORTAC, maintain 10700.

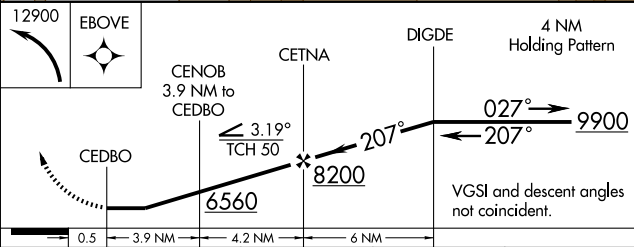
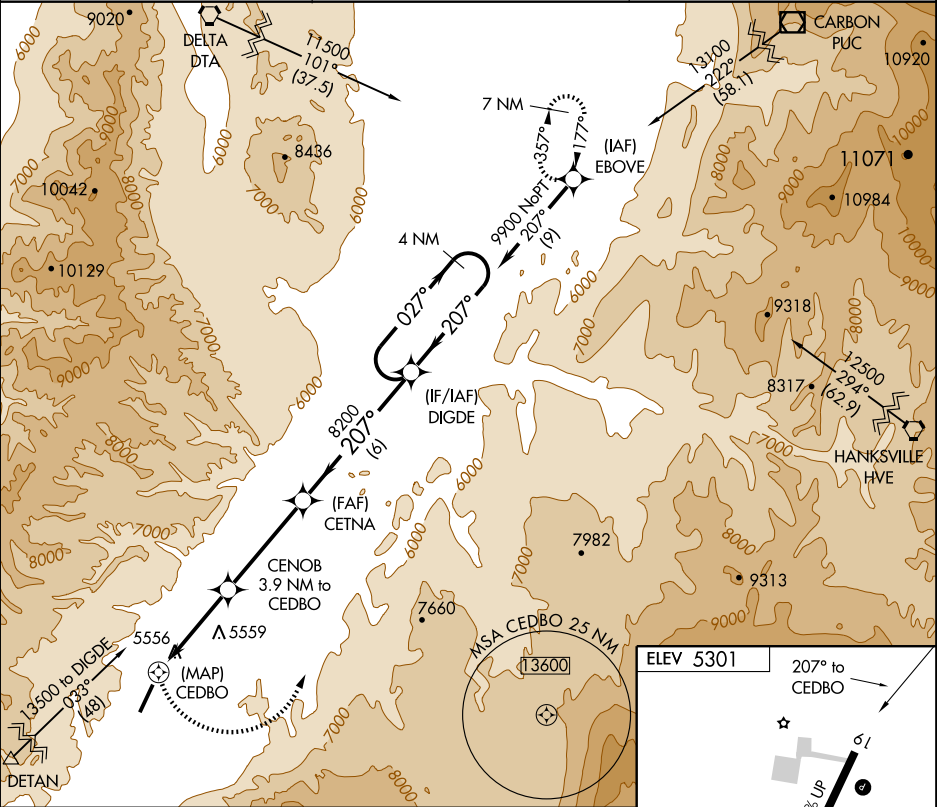
APP CRS	Rwy Idg	6600
207°	TDZE	5275
	Apt Elev	5301

RNAV (GPS) RWY 19

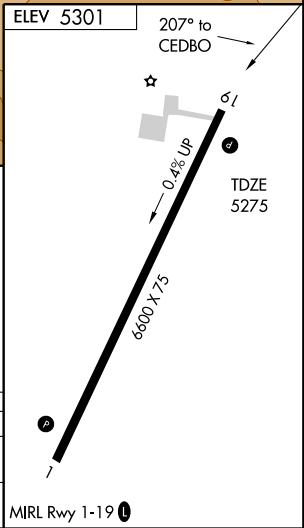
RICHFIELD MUNI (R1F)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing left turn to 12900 direct EBOVE WP and hold.
NA	

AWOS-3 133.375	SALT LAKE CITY CENTER 133.6 269.25	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
RNAV MDA	6440-1¼ 1165 (1200-1¼)	6440-1½ 1165 (1200-1½)	6440-3 1165 (1200-3)	NA
CIRCLING	6780-1¼ 1479 (1500-1¼)	7120-1½ 1819 (1900-1½)	7280-3 1979 (2000-3)	NA

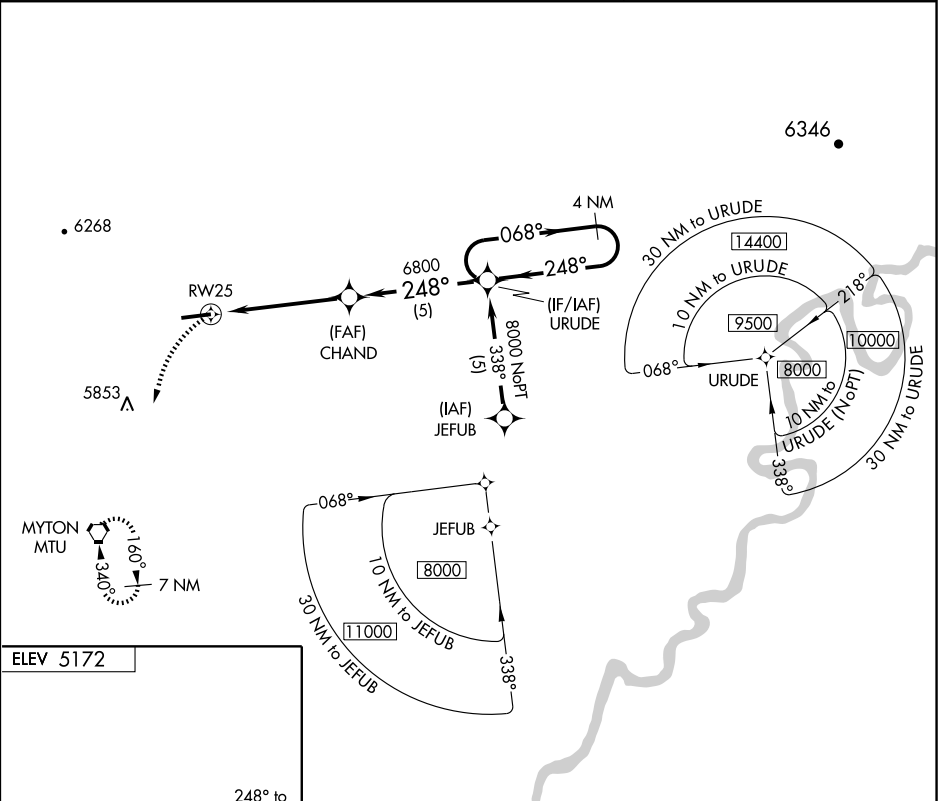


APP CRS 248°	Rwy Idg TDZE Apt Elev	6500 5140 5172
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RNAV (GPS) RWY 25
ROOSEVELT MUNI (74V)

▼ ▲ NA	Use Vernal altimeter setting. When not received, procedure not authorized. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing left turn to 9000 direct MTU VORTAC and hold.
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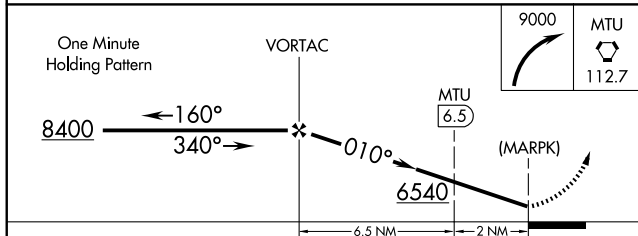
AWOS-3 118.975	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) 0
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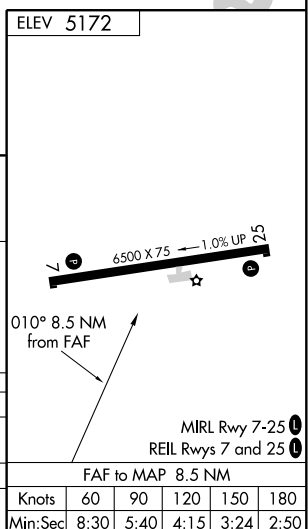
ELEV 5172	MYTON MTU	6500 X 75	1.0% UP	248° to RW25	TDZE 5140
9000	MTU	VGSI and descent angles not coincident.	URUDE	4 NM Holding Pattern	8000
CHAND	RW25	6800	248°	068°	248°
3.11° TCH 45	5 NM	5 NM			
CATEGORY	A	B	C	D	
LNAV MDA	5880-1	740 (800-1)	5880-2 740 (800-2)	NA	
CIRCLING	6140-1¼ 968 (1000-1¼)	6140-1½ 968 (1000-1½)	6260-3 1088 (1100-3)	NA	

MIRL Rwy 7-25 0
REIL Rwy 7 and 25 0

 	Use Vernal altimeter setting. When not received, procedure not authorized.	MISSED APPROACH: Climbing right turn to 9000 direct MTU VORTAC and hold.
--	--	--



CATEGORY	A	B	C	D
CIRCLING	6540-1¼ 1368 (1400-1¼)	6540-1½ 1368 (1400-1½)	6540-3 1368 (1400-3)	NA
DME MINIMUMS				
CIRCLING	6140-1½ 968 (1000-1½)	6140-1½ 968 (1000-1½)	6260-3 1088 (1100-3)	NA

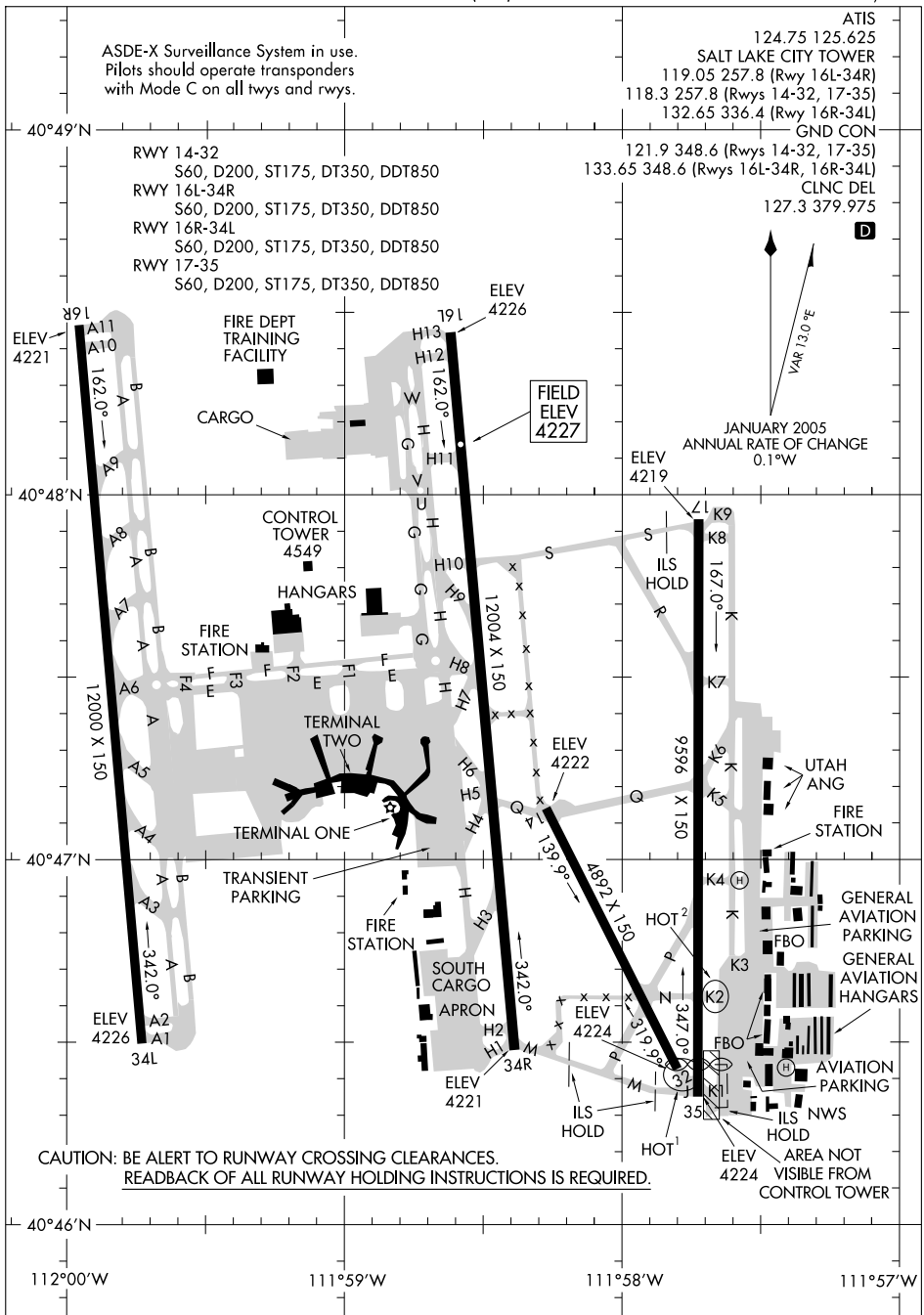


AIRPORT DIAGRAM

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)

SALT LAKE CITY, UTAH



(BEARR.BEARR4) 09351

BEARR FOUR ARRIVAL

ST-365 (FAA)

SALT LAKE CITY INTL

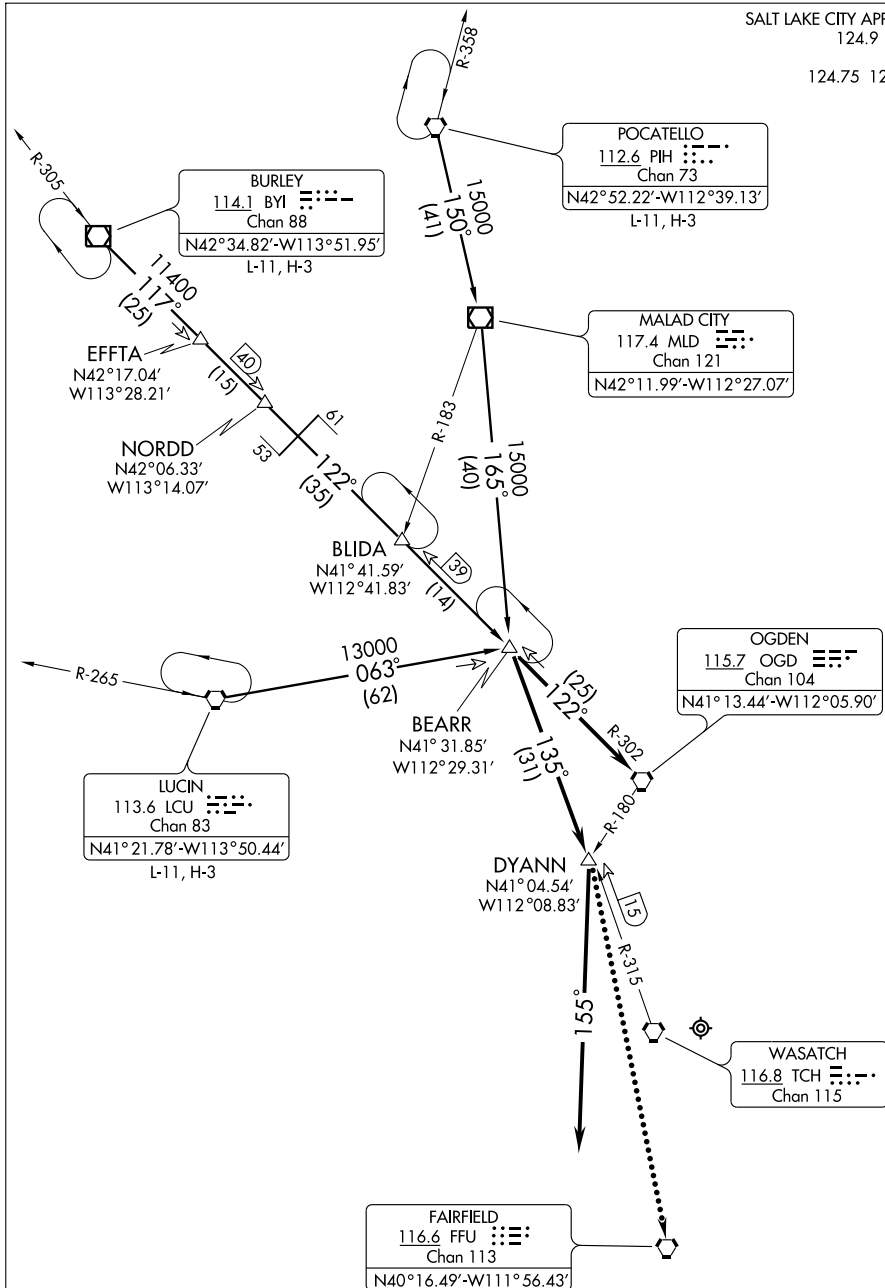
SALT LAKE CITY, UTAH

SALT LAKE CITY APP CON

124.9 290.3

ATIS

124.75 125.625



ARRIVAL DESCRIPTION

BURLEY TRANSITION (BYI.BEARR4): From over BYI VOR/DME via BYI R-117 and OGD R-302 to BEARR INT. Thence....

LUCIN TRANSITION (LCU.BEARR4): From over LCU VORTAC via LCU R-063 to BEARR INT. Thence....

POCATELLO TRANSITION (PIH.BEARR4): From over PIH VORTAC via PIH R-150 to MLD VOR/DME, then via MLD R-165 to BEARR INT. Thence....

.... LANDING NORTH: Via TCH R-315 to DYANN INT. After DYANN INT fly heading 155° for vectors ILS/DME or VISUAL RWY 34L approach.

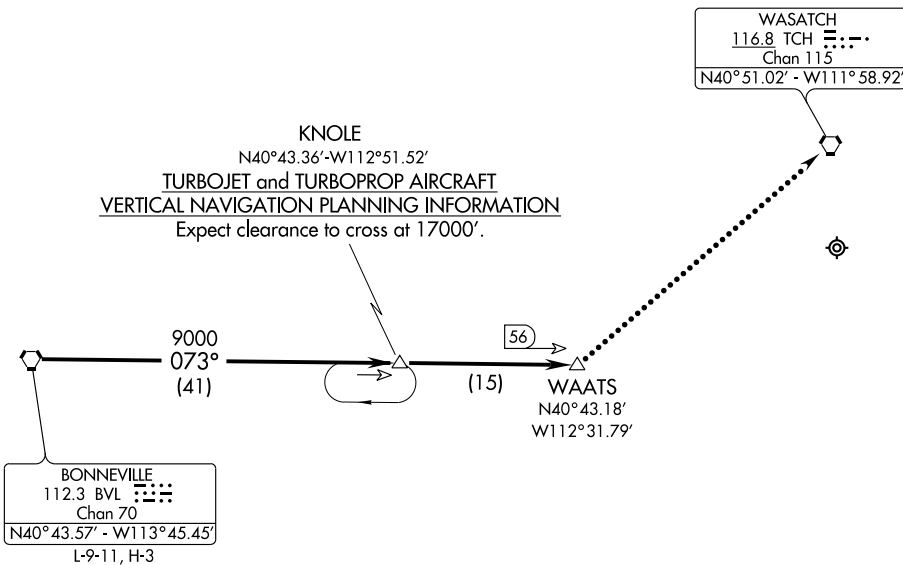
.... LANDING SOUTH: Via OGD R-302 to OGD VORTAC. Expect ILS/DME RWY 16L approach.

LOST COMMUNICATIONS: LANDING NORTH: In the event of lost communications, at DYANN INT proceed direct FFU VORTAC. Maintain 13,000' until FFU VORTAC.

SALT LAKE CITY APP CON

124.3 322.3

ATIS 124.75 125.625

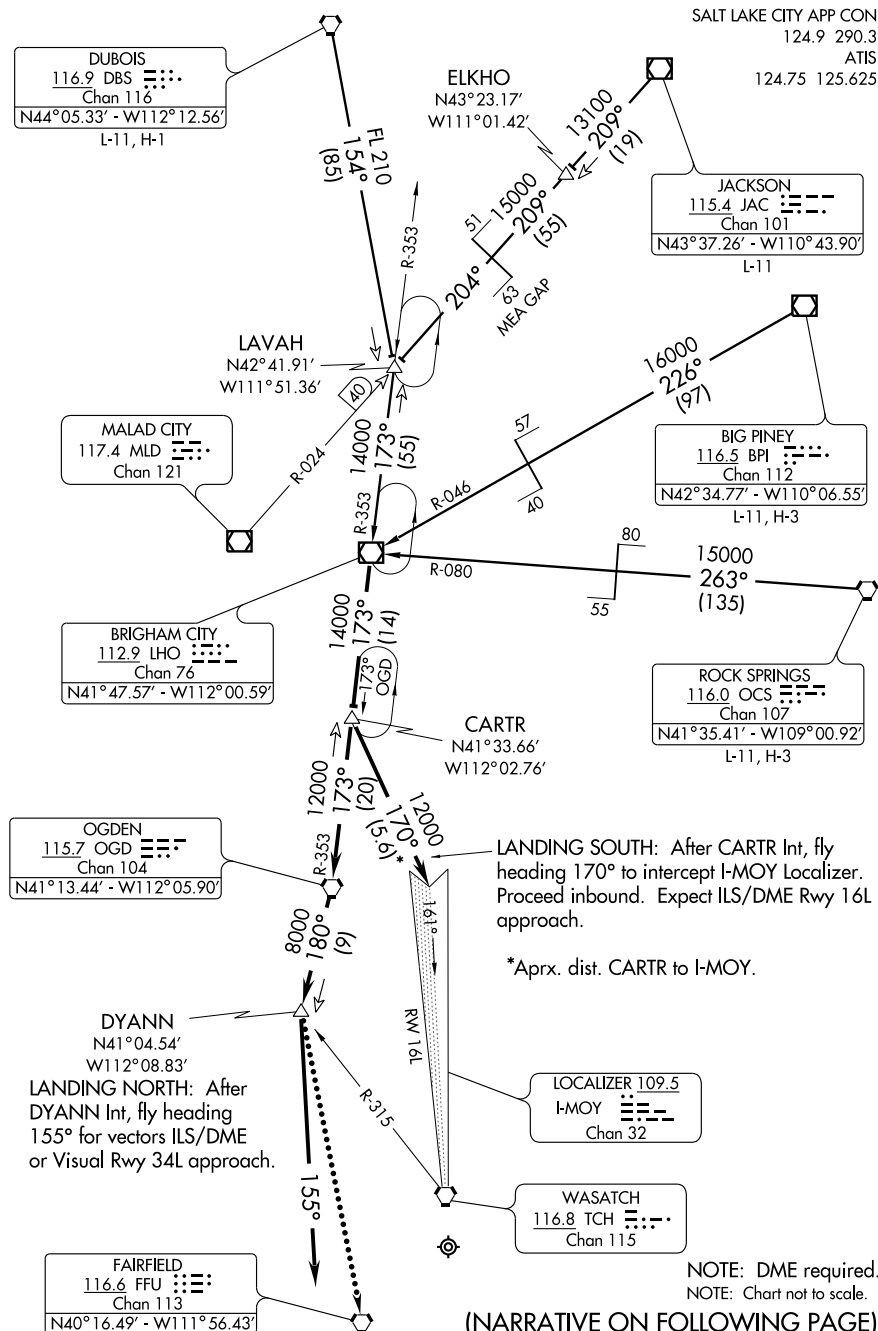


From over BVL VORTAC via BVL R-073 to WAATS DME Fix, thence expect radar vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communications at WAATS, proceed direct TCH VORTAC. Maintain 13000' until TCH VORTAC.

BRIGHAM CITY THREE ARRIVAL

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAH

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL ROUTE DESCRIPTION

BIG PINEY TRANSITION (BPI.LHO3): From over BPI VOR/DME via BPI R-226 and LHO R-046 to LHO VOR/DME. Thence....

DUBOIS TRANSITION (DBS.LHO3): From over DBS VORTAC via DBS R-154 to LAVAH INT, then via LHO R-353 to LHO VOR/DME. Thence....

JACKSON TRANSITION (JAC.LHO3): From over JAC VOR/DME via JAC R-209 and MLD R-024 to LAVAH INT, then via LHO R-353 to LHO VOR/DME. Thence....

ROCK SPRINGS TRANSITION (OCS.LHO3): From over OCS VORTAC via OCS R-263 and LHO R-080 to LHO VOR/DME. Thence....

LANDING NORTH:

.... From over LHO VOR/DME via LHO R-173 to CARTR INT, then via OGD R-353 to OGD VORTAC, then via OGD R-180 to DYANN INT. After DYANN INT, fly heading 155° for vectors ILS/DME or VISUAL RWY 34L approach.

LANDING SOUTH:

.... From over LHO VOR/DME via LHO R-173 to CARTR INT. After CARTR INT, fly heading 170° to intercept I-MOY Localizer, proceed inbound. Expect ILS/DME RWY 16L approach.

LOST COMMUNICATIONS:

LANDING NORTH: In the event of lost communications, at DYANN INT proceed direct FFU VORTAC. Maintain 13,000' until FFU VORTAC.

DELTA THREE ARRIVAL (RNAV)

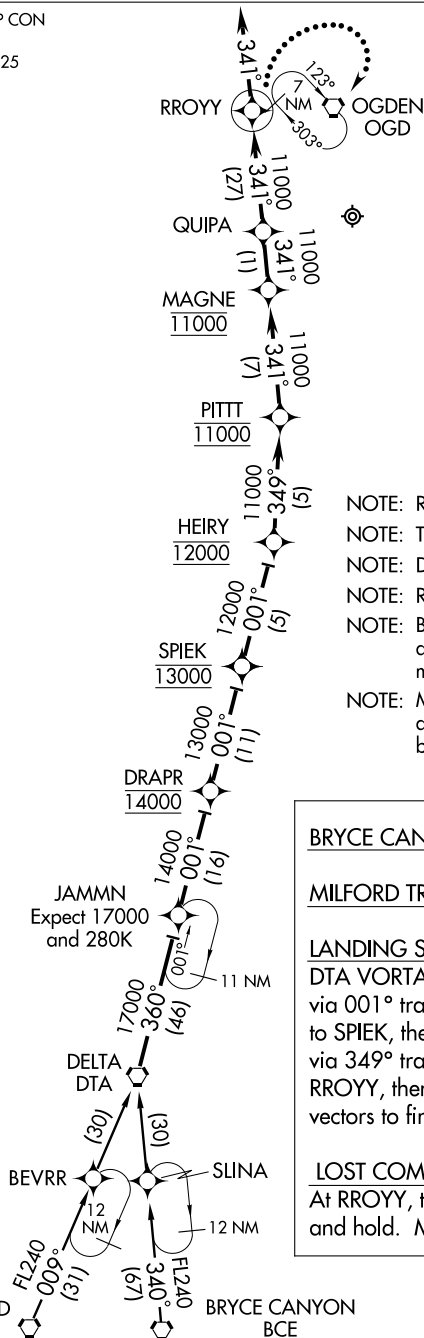
ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAH

SALT LAKE CITY APP CON

128.1 307.05

ATIS 124.75 125.625



NOTE: RADAR required.

NOTE: Turbojet aircraft only.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: BCE TRANSITION: For Non-GPS equipped aircraft, BVL, FFU, TCH, and OGD DMEs must be operational.

NOTE: MLF TRANSITION: For Non-GPS equipped aircraft, BVL, TCH, and OGD DMEs must be operational.

BRYCE CANYON TRANSITION (BCE.DELTA3)MILFORD TRANSITION (MLF.DELTA3)

LANDING SOUTH (RWY 16L/16R/17): From DTA VORTAC via 360° track to JAMMN, then via 001° track to DRAPR, then via 001° track to SPIEK, then via 001° track to HEIRY, then via 349° track to PITTT, then as depicted to RROYY, then via 341° heading. Expect radar vectors to final approach course.

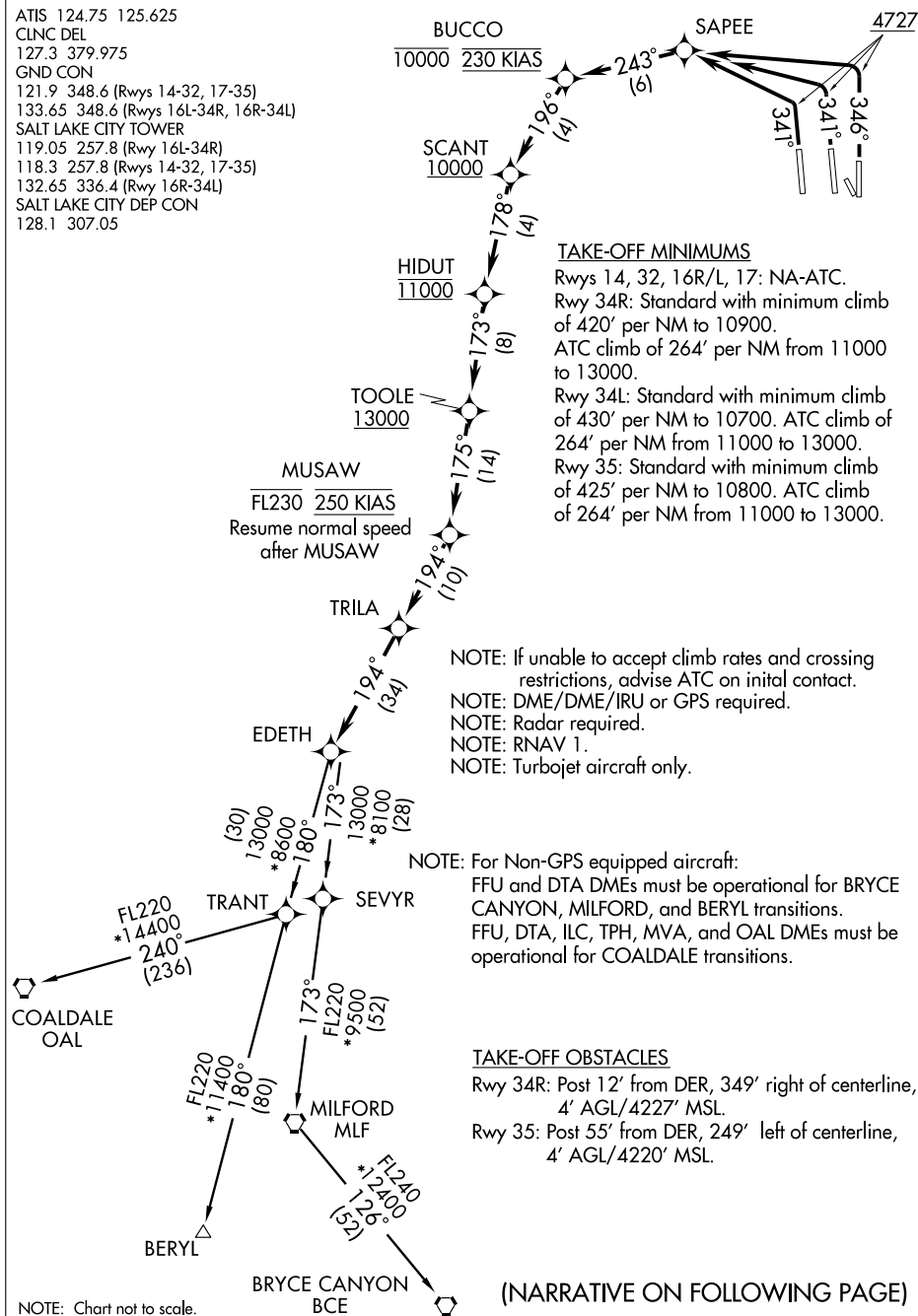
LOST COMMUNICATIONS:

At RROYY, turn right direct OGD VORTAC and hold. Maintain 11000.

NOTE: Chart not to scale.

EDETH ONE DEPARTURE (RNAV)

ATIS 124.75 125.625
 CLNC DEL
 127.3 379.975
 GND CON
 121.9 348.6 (Rwys 14-32, 17-35)
 133.65 348.6 (Rwys 16L-34R, 16R-34L)
 SALT LAKE CITY TOWER
 119.05 257.8 (Rwy 16L-34R)
 118.3 257.8 (Rwys 14-32, 17-35)
 132.65 336.4 (Rwy 16R-34L)
 SALT LAKE CITY DEP CON
 128.1 307.05



EDEDH ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34R: Climb heading 341° to 4727, then left turn direct SAPEE, then via depicted route to EDEDH, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 341° to 4727, then left turn direct SAPEE, then via depicted route to EDEDH, thence. . . .

TAKE-OFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct SAPEE, then via depicted route to EDEDH, thence. . . .

. . . .via (transition) maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

BERYL TRANSITION (EDEDH1.BERYL)

BRYCE CANYON TRANSITION (EDEDH1.BCE)

COALDALE TRANSITION (EDEDH1.OAL)

MILFORD TRANSITION (EDEDH1.MLF)

FAIRFIELD SIX DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R and 17: Fly heading 160° or as assigned, maintain 10,000' or assigned lower altitude. Expect radar vectors to FFU VORTAC then via filed/assigned transition. Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control 1 minute after take-off:

Aircraft assigned heading 160°:

Runways 16L and 17 turn right, thence. . . .

Runway 16R turn left, thence. . . .

. . . . climb to 11,000' via TCH R-161 to FFU VORTAC and continue climb via assigned/ filed transition.

All others, fly assigned heading to 11,000'. Then:

Aircraft heading 280° CW through 310°: a climbing right turn, thence. . . .

Aircraft heading 311° CW through 340°: a climbing left turn, thence. . . .

. . . . direct TCH VORTAC, TCH R-161 to FFU VORTAC, and continue climb via assigned/ filed transition.

BRYCE CANYON TRANSITION (FFU6.BCE): From over FFU VORTAC via FFU R-170 and BCE R-351 to BCE VORTAC.

DELTA TRANSITION (FFU6.DTA): From over FFU VORTAC via FFU R-170 and DTA R-048 to DTA VORTAC.

HANKSVILLE TRANSITION (FFU6.HVE): From over FFU VORTAC via FFU R-145 and HVE R-313 to HVE VORTAC.

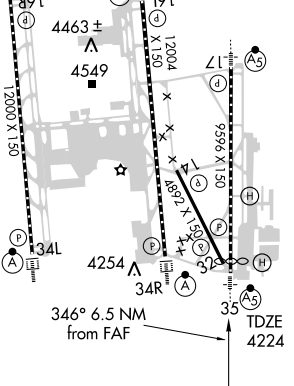
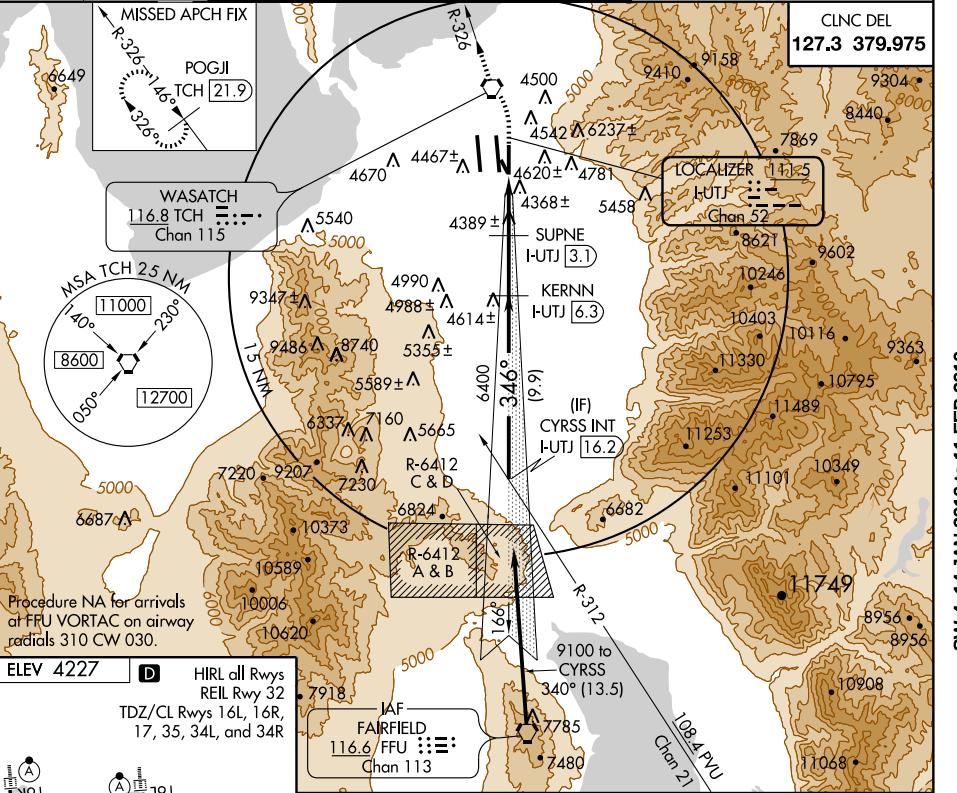
MILFORD TRANSITION (FFU6.MLF): From over FFU VORTAC via FFU R-170 and MLF R-026 to MLF VORTAC.

For inoperative MALSR, increase S-ILS 35 all Cts visibility to RVR 4000 and S-LOC 35 Cts E visibility to 1 3/4.

MALSR

MISSED APPROACH: Climb to 9000 via left turn direct TCH VORTAC and TCH VORTAC R-326 to POGJI/TCH21.9 DME and hold.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER	GND CON
124.75	124.3 322.3	119.05 257.8 118.3 257.8 132.65 336.4	121.9 348.6 133.65 348.6
125.625		(Rwys 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)	(Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)



9000	TCH	TCH	POGJI	VGS and ILS glidepath	CYRSS INT
	116.8	R-326	TCH	not coincident.	I-UTJ 16.2
			21.9		
*LOC only					
	I-UTJ	I-UTJ	SUPNE	KERNN	
	DME	DME	I-UTJ 3.1	I-UTJ 6.3	
	ANT.	ANT.			
	0.2	1 NM	2.1 NM	3.2 NM	9.9 NM
CATEGORY	A	B	C	D	E
S-ILS 35	4424/18	200 (200-1/2)			4424/24
S-LOC 35	4700/24	476 (500-1/2)	4700/40	4700/50	4700/60
		476 (500-3/4)	476 (500-1)	476 (500-1)	476 (500-1 1/4)

LOC/DME I-MOY 109.5 Chan 32	APP CRS 161°	Rwy Idg 12004 TDZE 4227 Apt Elev 4227
---	------------------------	--

ILS or LOC RWY 16L
SALT LAKE CITY INTL (SLC)

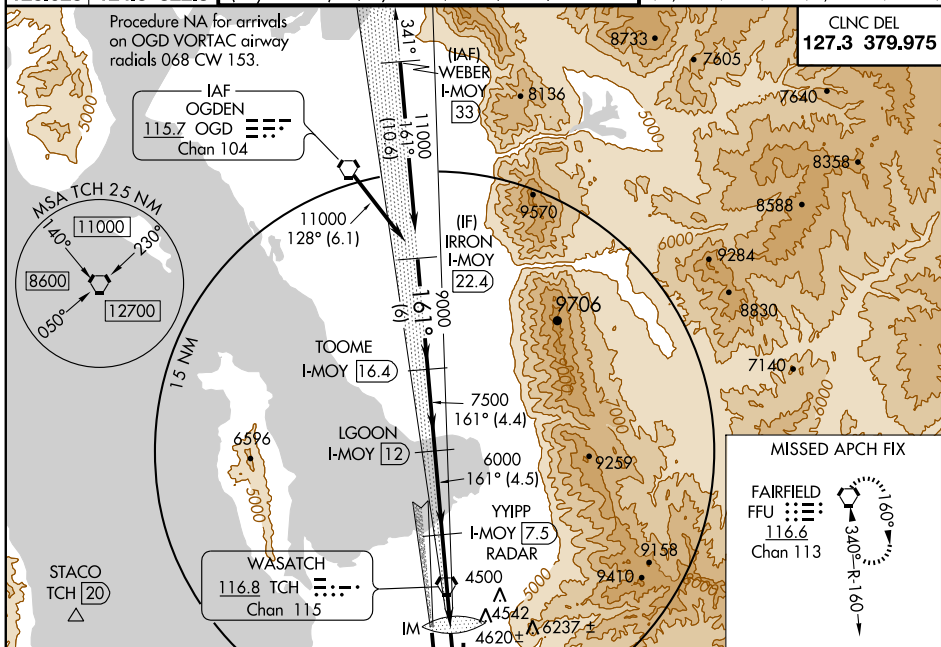
T For inoperative ALSF, increase S-LOC Cat D to RVR 5000.
Simultaneous approach authorized with Rwy 16R.
DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb to 4800, then climb to 10000 via FFU VORTAC R-341 to FFU VORTAC and hold.

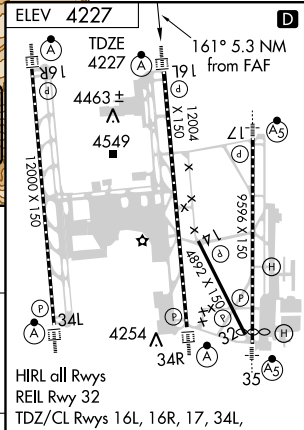
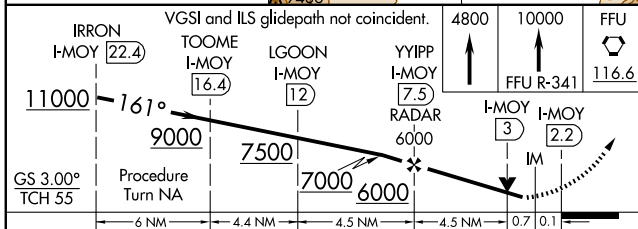
ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER				GND CON			
124.75		119.05 257.8	118.3 257.8	132.65	336.4	121.9 348.6	133.65 348.6		
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)		(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)		

CLNC DEL
127,3 379,975



ALTERNATE MISSED
APCH FIX

LOCALIZER 109.5
I-MOY $\begin{smallmatrix} \cdot\cdot \\ \equiv \\ \equiv \end{smallmatrix}$



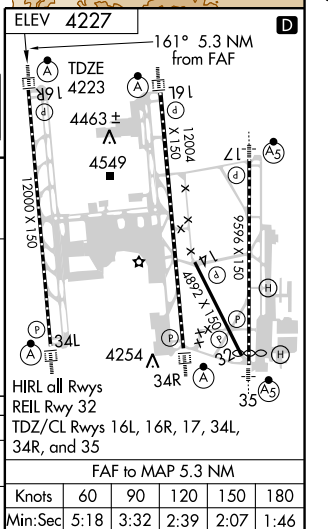
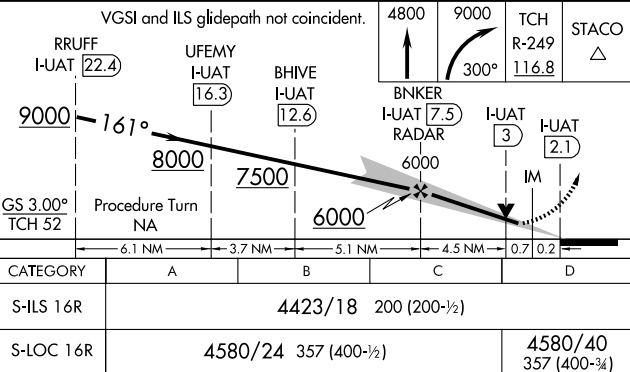
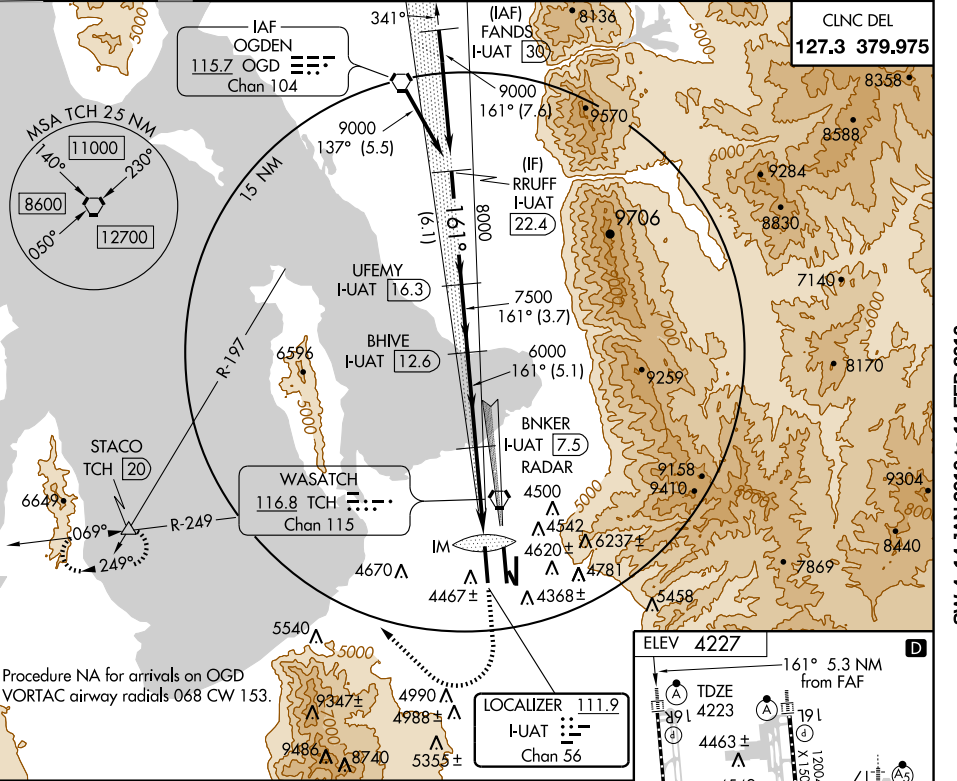
CATEGORY	A	B	C	D	34R and 35					
S-ILS 16L	4427/18 200 (200-½)				FAF to MAP 5.3 NM					
S-LOC 16L	4560/24 333 (400-½)			4560/40 333 (400-¾)	Knots	60	90	120	150	180
					Min:Sec	5:17	3:32	2:39	2:07	1:46

Simultaneous approach authorized with Rwy 16L.
DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb to 4800, then climbing right turn to 9000 via heading 300° and TCH R-249 to STACO INT/TCH 20 DME and hold.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON		
124.75		119.05	257.8	118.3	257.8	132.65	336.4
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)	

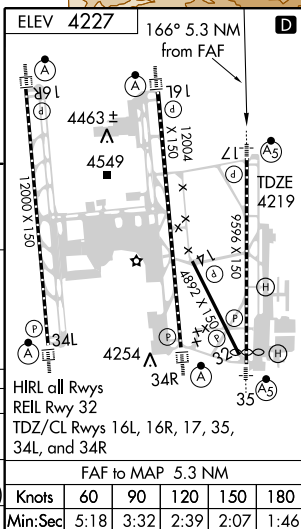
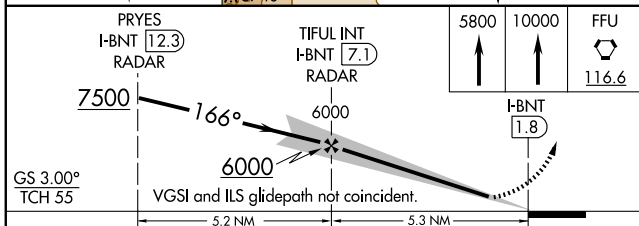
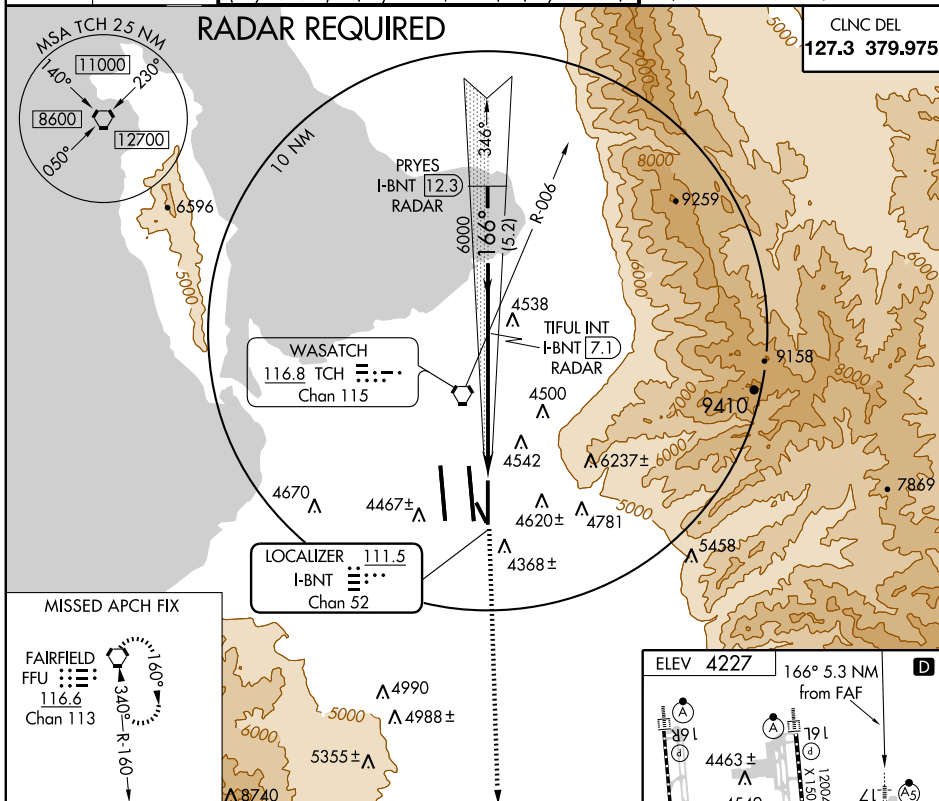


SW-4, 14 JAN 2010 to 11 FEB 2010

ILS or LOC RWY 17
SALT LAKE CITY INTL (SLC)

MISSED APPROACH: Climb to 5800, then climb to 10000 direct FFU VORTAC and hold.

MSA TCH 25 NM **RADAR REQUIRED** CLNC DEL 127.3 379.975



CATEGORY	A	B	C	D	E
S-ILS 17	4419/18 200 (200-½)				4419/24 200 (200-½)
S-LOC 17	4700/24	481 (500-½)	4700/40 481 (500-¾)	4700/50 481 (500-1)	4700/60 481 (500-1¼)
CIRCLING	NA				

	VGSI and ILS glidepath not coincident. Procedure Turn NA	PUTER I-UUH 20.3
CATEGORY	A	D
S-ILS 34L	4426/18 200 (200-½)	
S-LOC 34L	4700/24 474 (500-½)	4700/50 474 (500-1)

LOC/DME I-SLC	APP CRS	Rwy Idg	12004
109.5	341°	TDZE	4222
Chan 32		Apt Elev	4227

Simultaneous approach authorized with Rwy 34L.

DME or RADAR required.

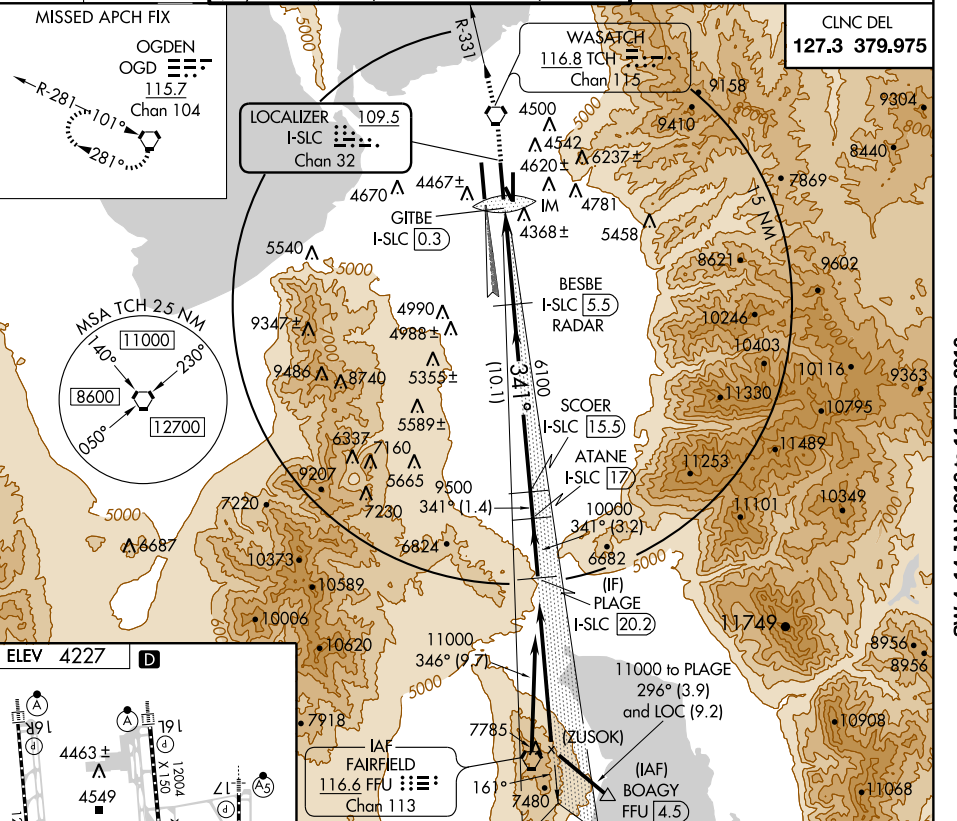
ALSIF-2

MISSED APPROACH: Climb to 9000

direct TCH VORTAC then via TCH

R-331 to OGD VORTAC and hold.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER	GND CON
124.75		119.05 257.8 118.3 257.8 132.65 336.4	121.9 348.6 133.65 348.6
125.625	124.3 322.3	(Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)	(Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)



LOC/DME I-MOY <u>109.5</u> Chan 32	APP CRS 161°	Rwy Idg 12004 TDZE 4227 Apt Elev 4227
---	------------------------	--

ILS RWY 16L (CAT II)
SALT LAKE CITY INTL (SLC)

Simultaneous approach authorized with Rwy 16R.
DME or RADAR required.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75		119.05 257.8	118.3 257.8	132.65 336.4	121.9 348.6	133.65 348.6
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

Procedure NA for arrivals
on OGD VORTAC airway
radials 068 CW 153.

3410
(HAF)
8733
7605

CLNC DEL
127.3 379.975

APCH FIX

STACO
TCH 20

115.7 OG
R: 197
Chan 104

116.8 TCH

4670

5000

1800

CH

4368 ±

5458

ELEV 4227

LOCALIZER 109.5

I-MOY

TDZE 4227

49 l

19 l

IRRON	VGSi and ILS glidepath not coincident.	4800	10000	FFU
I-MOY 22.4	TOOME	IGOON	YYIPP	

GS 3.00° TCH 55		Procedure Turn NA							
CATEGORY		A		B		C		D	
S-ILS 16L				RA 108/12 100		DA 4327		HIRL all Rwy's	

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

AL-365 (FAA)

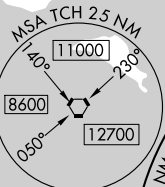
ILS RWY 16L (CAT III)
SALT LAKE CITY INTL (SLC)

ALSF-2

MISSED APPROACH: Climb to 4800, then climb to 10000
via FFU VORTAC R-341 to FFU VORTAC and hold.

Procedure NA for arrivals
on OGD VORTAC airway
radials 068 CW 153.

IAF
OGDEN
115.7 OGD 
Chan 104

STACO
TCH 20

MISSED APCH FIX

FAIRFIELD
FFU ::≡:
116.6
Chan 113

ELEV 4227

D

TDZE
4227

ALTERNATE MISSED
APCH FIX

LOCALIZER 109.5
I-MOY 
Chan 32

IRON
I-MOY 224

TOOME
LLOYD

LGOON

YYIPP
I-MOY

4800	
------	--

FFU

GS 3.00°	VGSI and ILS glidepath	750
----------	------------------------	-----

70

000

43

Procedure Turn	NA
----------------	----

HIRL all Rwys

REIL Rwy 3

TDZ/CL Rwy's 16L, 16R, 17, 34L,
34R and 35

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

SW-4. 14 JAN 2010 to 11 FEB 2010

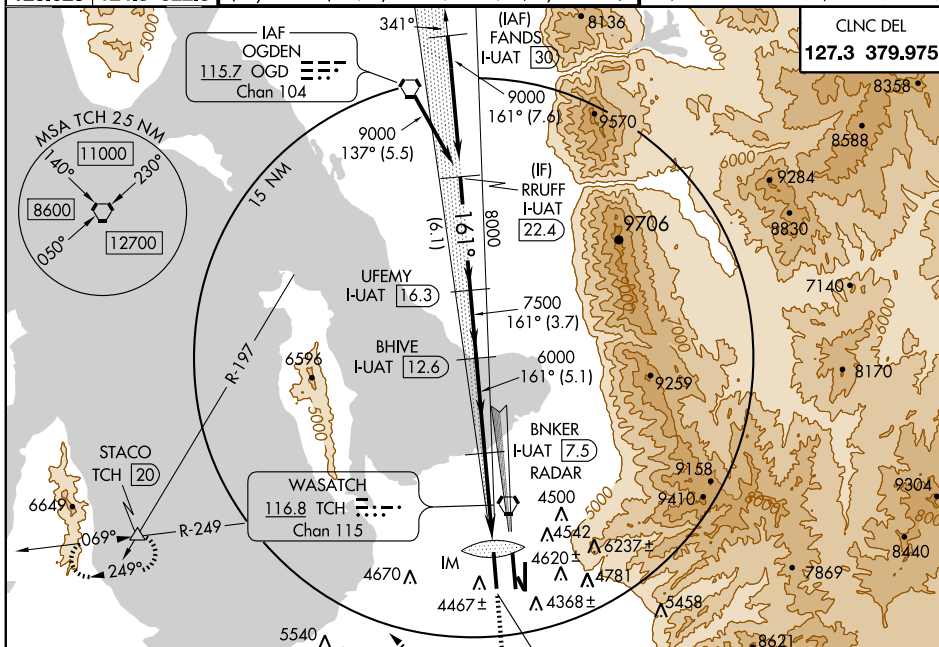
LOC/DME I-UAT 111.9 Chan 56	APP CRS 161°	Rwy ldg TDZE Apt Elev 12000 4223 4227
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ILS RWY 16R (CAT II)

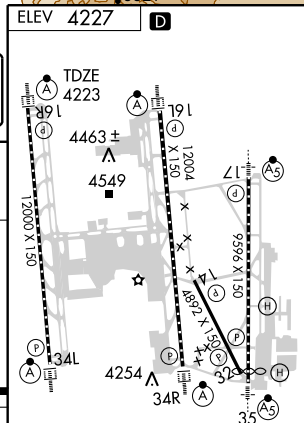
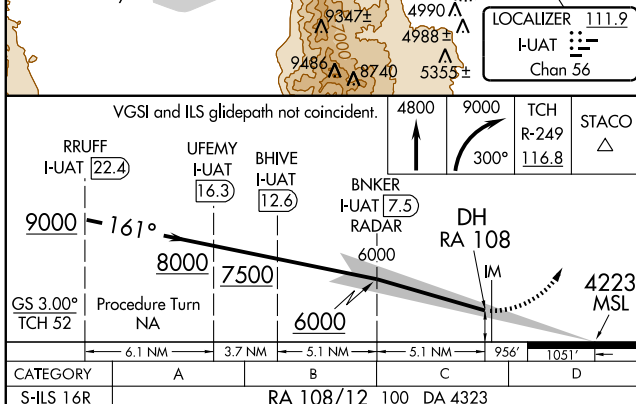
SALT LAKE CITY INTL (SLC)

Simultaneous approach authorized with Rwy 16L. DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb to 4800, then climbing right turn to 9000 via heading 300° and TCH R-249 to STACO INT/TCH 20 DME and hold.
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ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35) 132.65 336.4 (Rwy 16R-34L)	GND CON 121.9 348.6 (Rwys 14-32, 17-35) 133.65 348.6 (Rwys 16L-34R, 16R-34L)
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Procedure NA for arrivals on OGD
VORTAC airway radials 068 CW 153.



CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

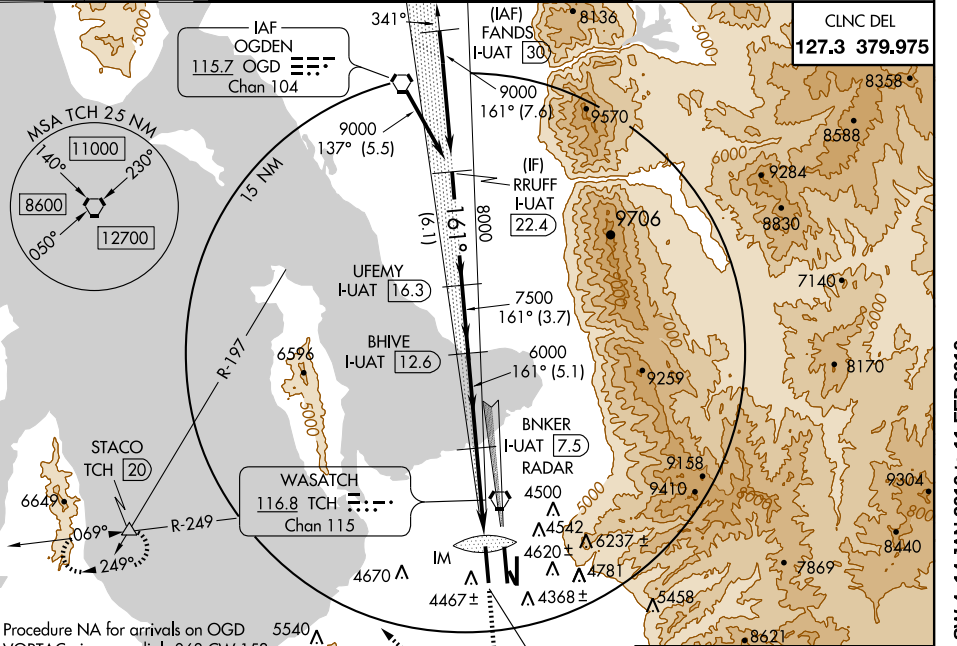
HIRL all Rws
REIL Rwy 32
TDZ/CL Rws 16L, 16R, 17, 34L,
34R, and 35

Simultaneous approach authorized with Rwy 16L.
DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb to 4800, then climbing right turn to 9000 via heading 300° and TCH R-249 to STACO INT/TCH 20 DME and hold.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER				GND CON	
		119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)		121.9 348.6 (Rwys 14-32, 17-35)	133.65 348.6 (Rwys 16L-34R, 16R-34L)



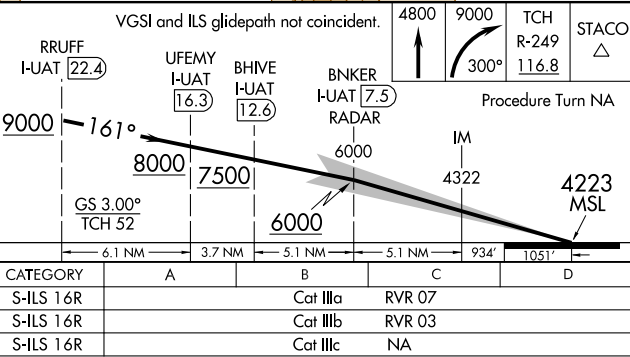
Procedure NA for arrivals on OGD VORTAC airway radials 068 CW 153.

Procedure NA for arrivals on OGD VORTAC airway radials 068 CW 153.

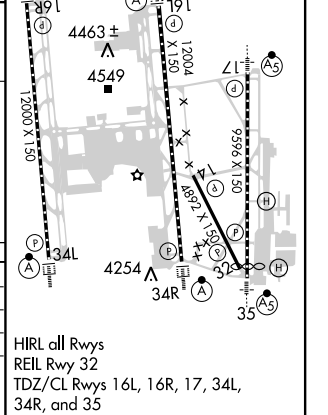
Procedure NA for arrivals on OGD VORTAC airway radials 068 CW 153.

ELEV 4227

D



CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



LOC/DME I-JUH 111.9 Chan 56	APP CRS 341°	Rwy Idg 12000 TDZE 4226 Apt Elev 4227
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ILS RWY 34L (CAT II)

SALT LAKE CITY INTL (SLC)

 Simultaneous approach authorized with Rwy 34R. DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb to 4800, then climbing left turn to 9000 via TCH R-249 to STACO INT/TCH 20 DME and hold.
--	---	---

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75		119.05 257.8	118.3 257.8	132.65 336.4	121.9 348.6	133.65 348.6
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

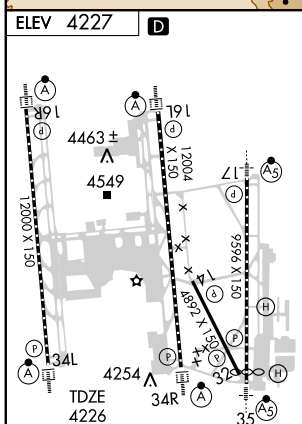
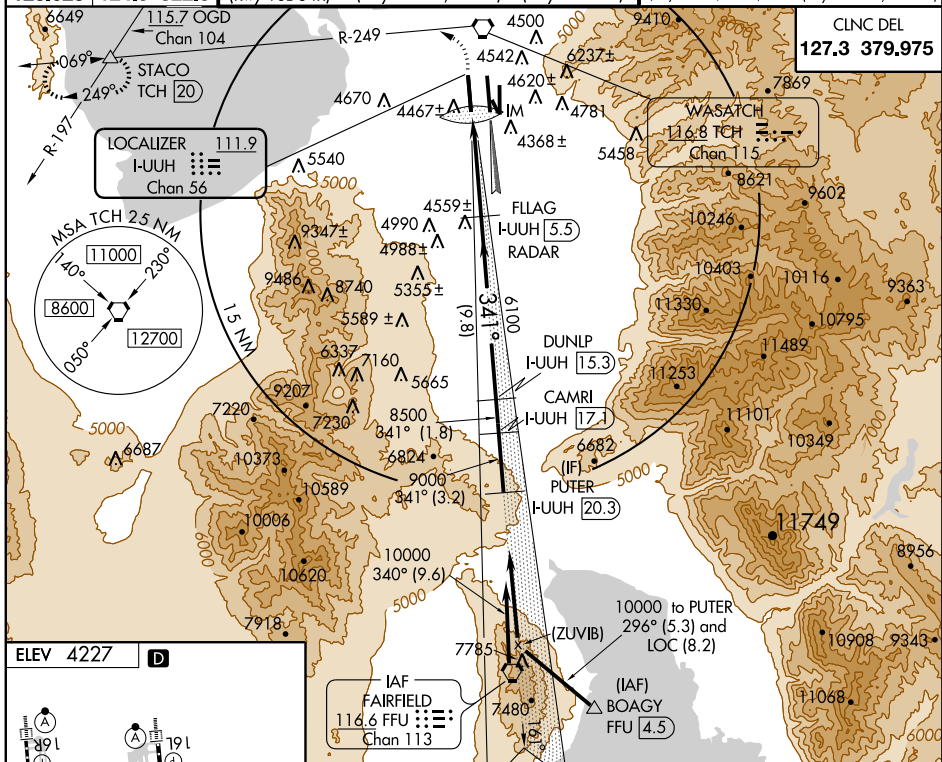


Diagram illustrating the S-ILS 34L approach procedure. Key elements include:

- Altitudes:** 4800, 9000, 6100, 8500, 9000, 4226 MSL.
- Distances:** 1.051, 866', 5.5 NM, 9.8 NM, 1.8 NM, 3.2 NM.
- Waypoints:** STACO, FLAG, DUNLP, CAMRI, PUTER.
- Speeds:** 100, 15.3.
- Frequencies:** 102, 12.
- Procedure:** Procedure Turn NA, GS 3.00° TCH 55.
- Notes:** VGSI and ILS glidepath not coincident.

HIRL all Rwy's
REIL Rwy 32
TDZ/CL Rwy's 16L, 16R, 17, 35, 34L,
and 34R

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

LOC/DME I-UUH	APP CRS	Rwy Idg	12000
111.9	341°	TDZE	4226
Chan 56		Apt Elev	4227

ILS RWY 34L (CAT III)

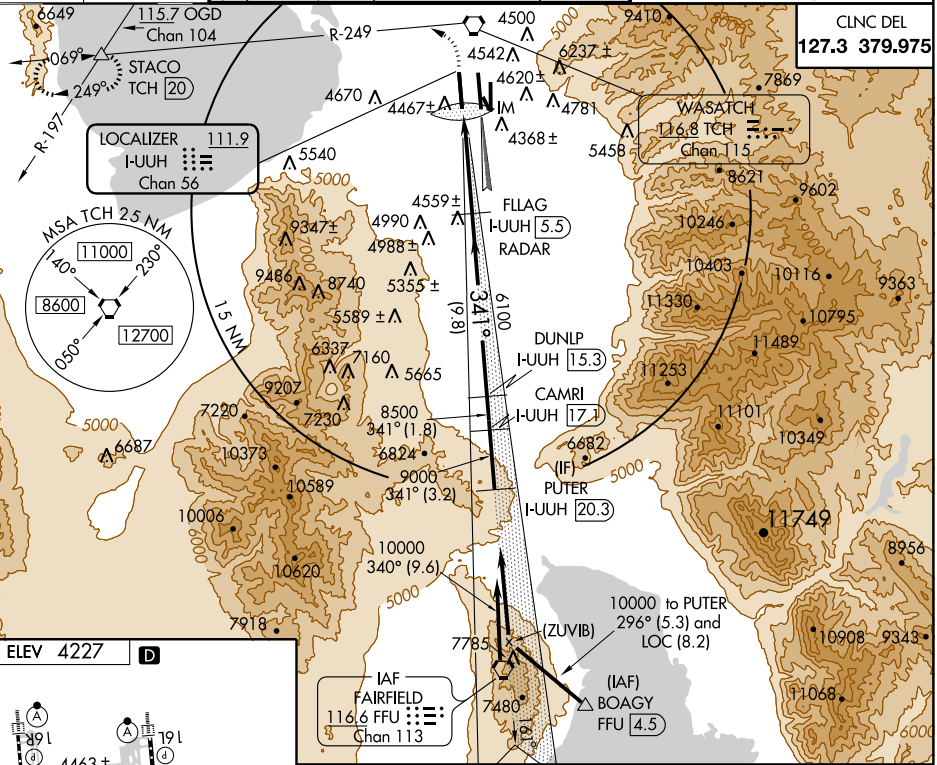
SALT LAKE CITY INTL (SLC)

Simultaneous approach authorized with Rwy 34R.
DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb to 4800, then climbing left turn to 9000 via TCH R-249 to STACO INT/TCH 20 DME and hold.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER		GND CON	
124.75		119.05	257.8	118.3	257.8
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	132.65	336.4
				(Rwys 16R-34L)	
				(Rwys 14-32, 17-35)	
				(Rwys 16L-34R, 16R-34L)	



LOC/DME I-SLC 109.5 Chan 32	APP CRS 341°	Rwy Idg 12004 TDZE 4222 Apt Elev 4227
---	------------------------	--

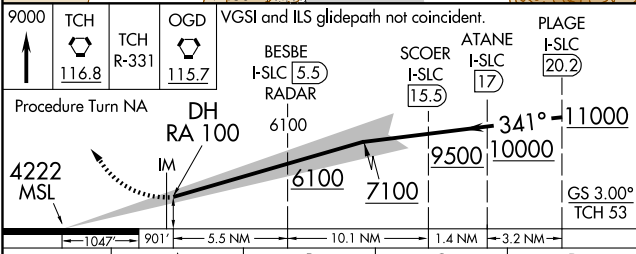
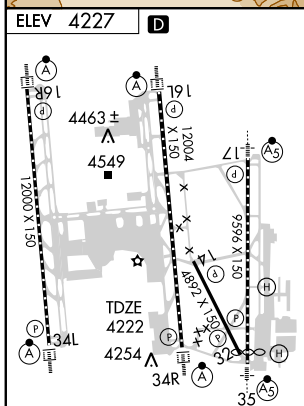
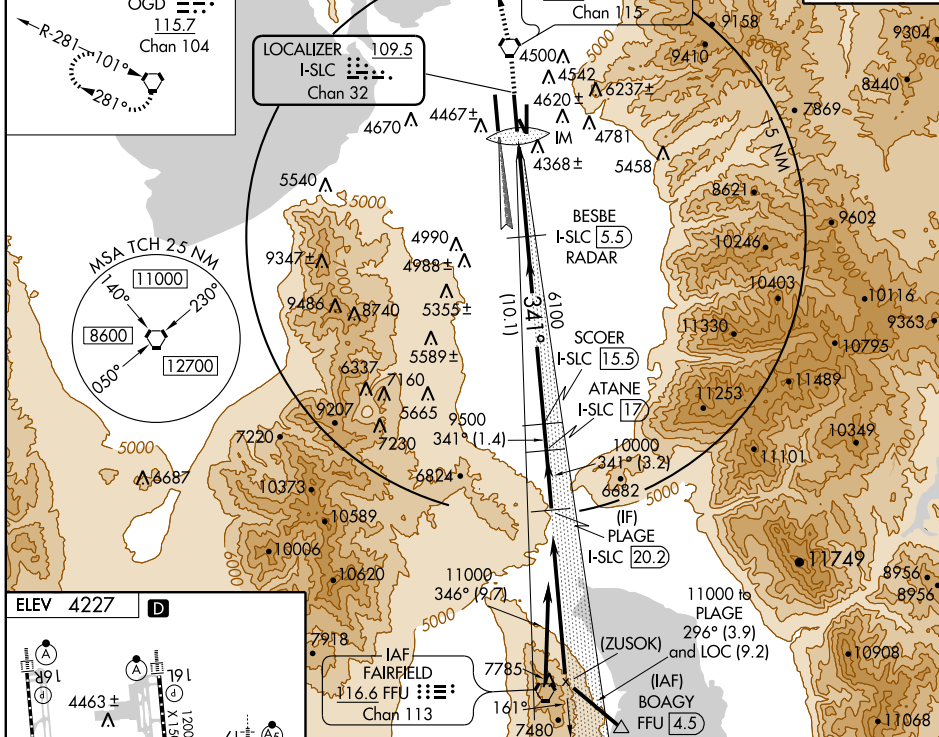
ILS RWY 34R (CAT II)

SALT LAKE CITY INTL (SLC)

V Simultaneous approach authorized with Rwy 34L. DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb to 9000 direct TCH VORTAC then via TCH R-331 to OGD VORTAC and hold.
---	------------	---

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35) 132.65 336.4 (Rwy 16R-34L)	GND CON 121.9 348.6 (Rwys 14-32, 17-35) 133.65 348.6 (Rwys 16L-34R, 16R-34L)
---	---	--	--

MISSED APCH FIX OGDEN OGD 115.7 Chan 104 R-281 101° 281°	CLNC DEL 127.3 379.975
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HIRL all Rwys
REIL Rwy 32
TDZ/CL Rwys 16L, 16R, 17, 35,
34L, and 34R

CATEGORY	A	B	C	D
S-ILS 34R	RA 100/12 100	DA 4322		

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

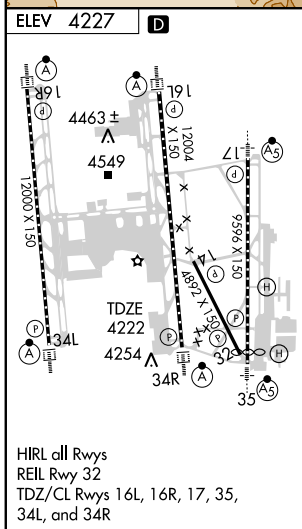
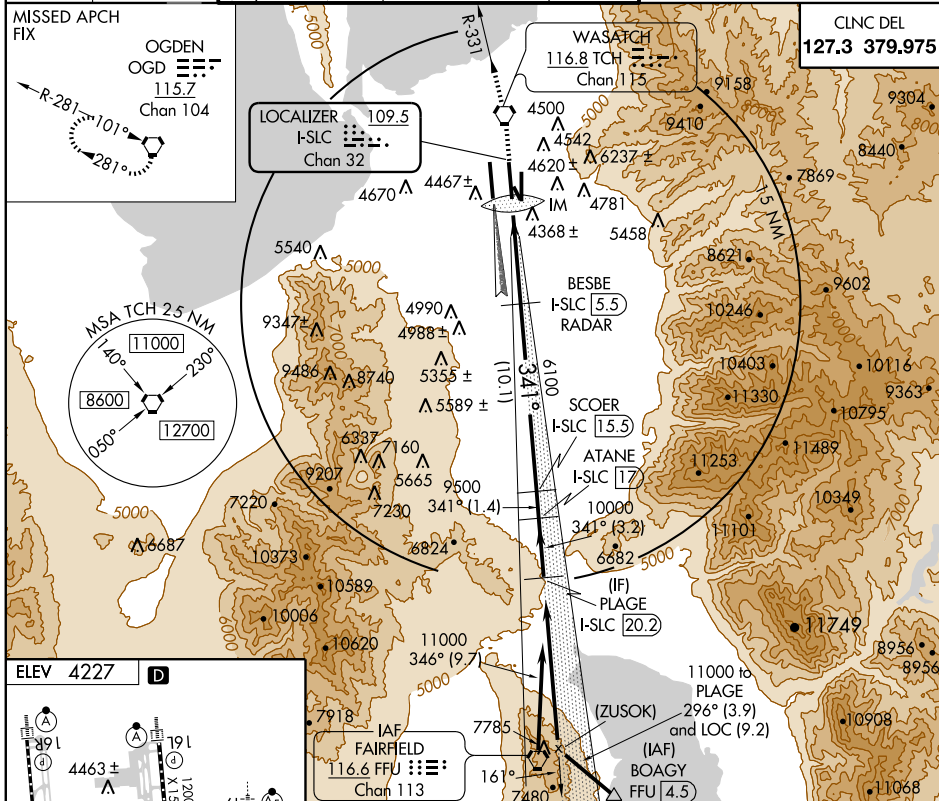
LOC/DME I-SLC 109.5 Chan 32	APP CRS 341°	Rwy Idg 12004 TDZE 4222 Apt Elev 4227
---	------------------------	--

ILS RWY 34R (CAT III)

SALT LAKE CITY INTL (SLC)

Simultaneous approach authorized with Rwy 34L. DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb to 9000 direct TCH VORTAC then via TCH R-331 to OGD VORTAC and hold.
---	-------------------	--

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	GND CON 121.9 348.6 (Rwys 14-32, 17-35)	133.65 348.6 (Rwys 16L-34R, 16R-34L)
--	---	--	-----------------------------------	--	---



9000	TCH 116.8	TCH R-331	OGD 115.7	BESBE I-SLC [5.5] RADAR	SCOER I-SLC [15.5]	ATANE I-SLC [17]	PLAGE I-SLC [20.2]		
4222 MSL	GS 3.00° TCH 53	4319	6100	7100	9500	10000	11000	Procedure Turn NA	
1047°	841°	5.5 NM	10.1 NM	1.4 NM	3.2 NM				
CATEGORY	A	B	C	D					
S-ILS 34R		CAT IIIa	RVR 07						
S-ILS 34R		CAT IIIb	RVR 03						
S-ILS 34R		CAT IIIc	NA						

**CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

JAMMN FOUR ARRIVAL

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAHSALT LAKE CITY APP CON
128.1 307.05
ATIS 124.75 125.625

OGDEN
115.7 OGD
Chan 104
N41°13.45' - W112°05.90'

After CHHIP INT, fly heading 340° for
vectors ILS/DME or VISUAL RWY 16R approach.

WASATCH
116.8 TCH
Chan 115

CHHIP
N40°37.16'
W112°03.70'

SPIEK
N40°28.75'
W112°06.58'

FAIRFIELD
116.6 FFU
Chan 113
N40°16.49' - W111°56.43'

JAMMN
N40°02.61'
W112°15.48'

LAZLO
N39°48.14'
W112°20.33'

DELTA
116.1 DTA
Chan 108
N39°18.14' - W112°30.33'

BEVRR
N38°50.49'
W112°45.35'

SLINA
N38°48.26'
W112°26.54'

MILFORD
112.1 MLF
Chan 58
N38°21.62' - W113°00.79'
L-9, H-3

BRYCE CANYON
112.8 BCE
Chan 75
N37°41.35' - W112°18.23'
L-9, H-3

SW-4, 14 JAN 2010 to 11 FEB 2010

NOTE: DME required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

BRYCE CANYON TRANSITION (BCE.JAMMN4): From over BCE VORTAC via BCE R-339 and DTA R-158 to DTA VORTAC. Then via DTA R-358 to JAMMN INT. Thence....

MILFORD TRANSITION (MLF.JAMMN4): From over MLF VORTAC via MLF R-007 and DTA R-187 to DTA VORTAC. Then via DTA R-358 to JAMMN INT. Thence....

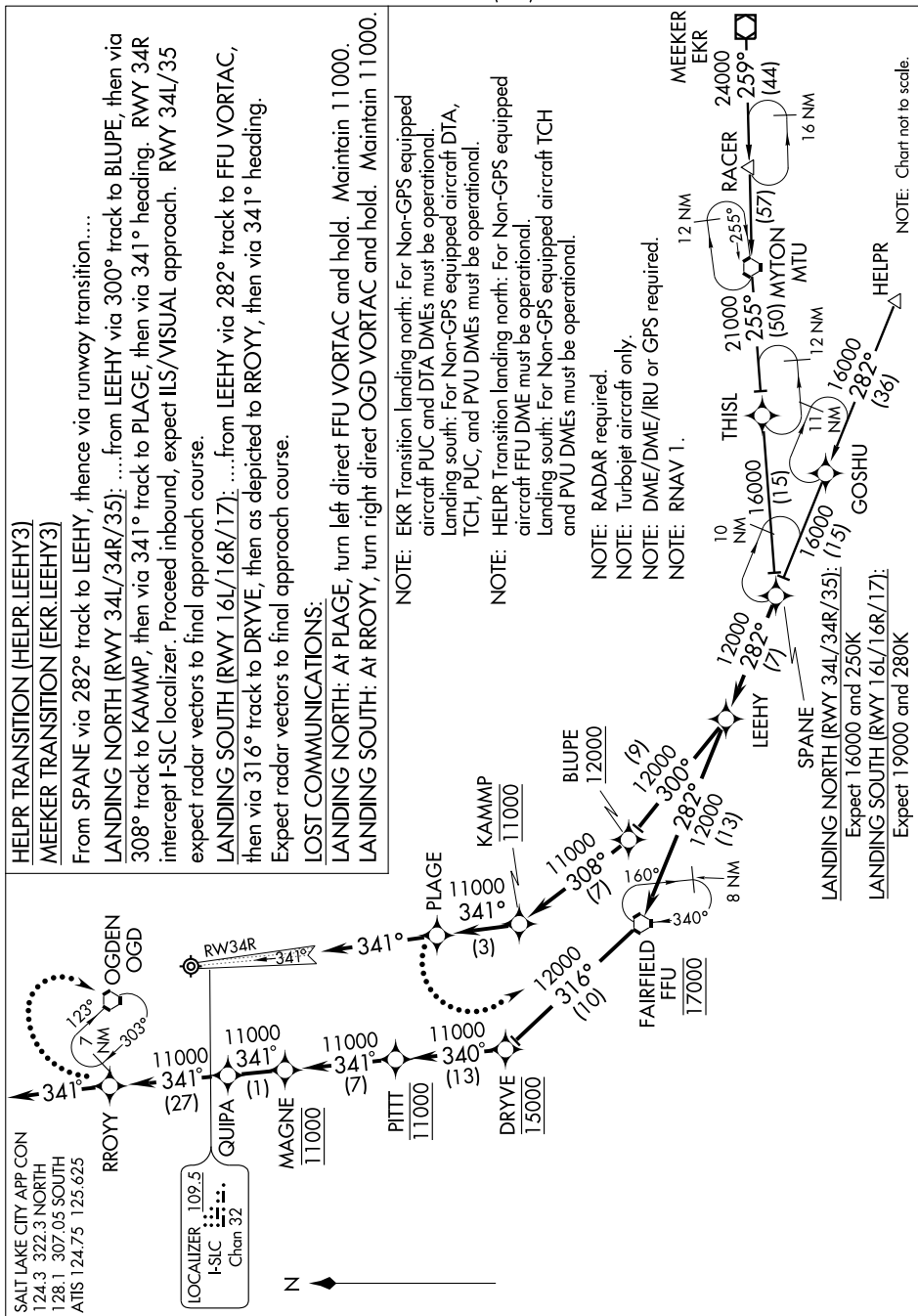
....From over JAMMN INT via TCH R-179 to CHHIP INT. After CHHIP INT, fly heading 340° for vectors to ILS/DME or VISUAL Rwy 16R approach.

LOST COMMUNICATIONS:

In the event of lost communications, at CHHIP INT proceed direct OGD VORTAC. Maintain 11,000 until OGD VORTAC.

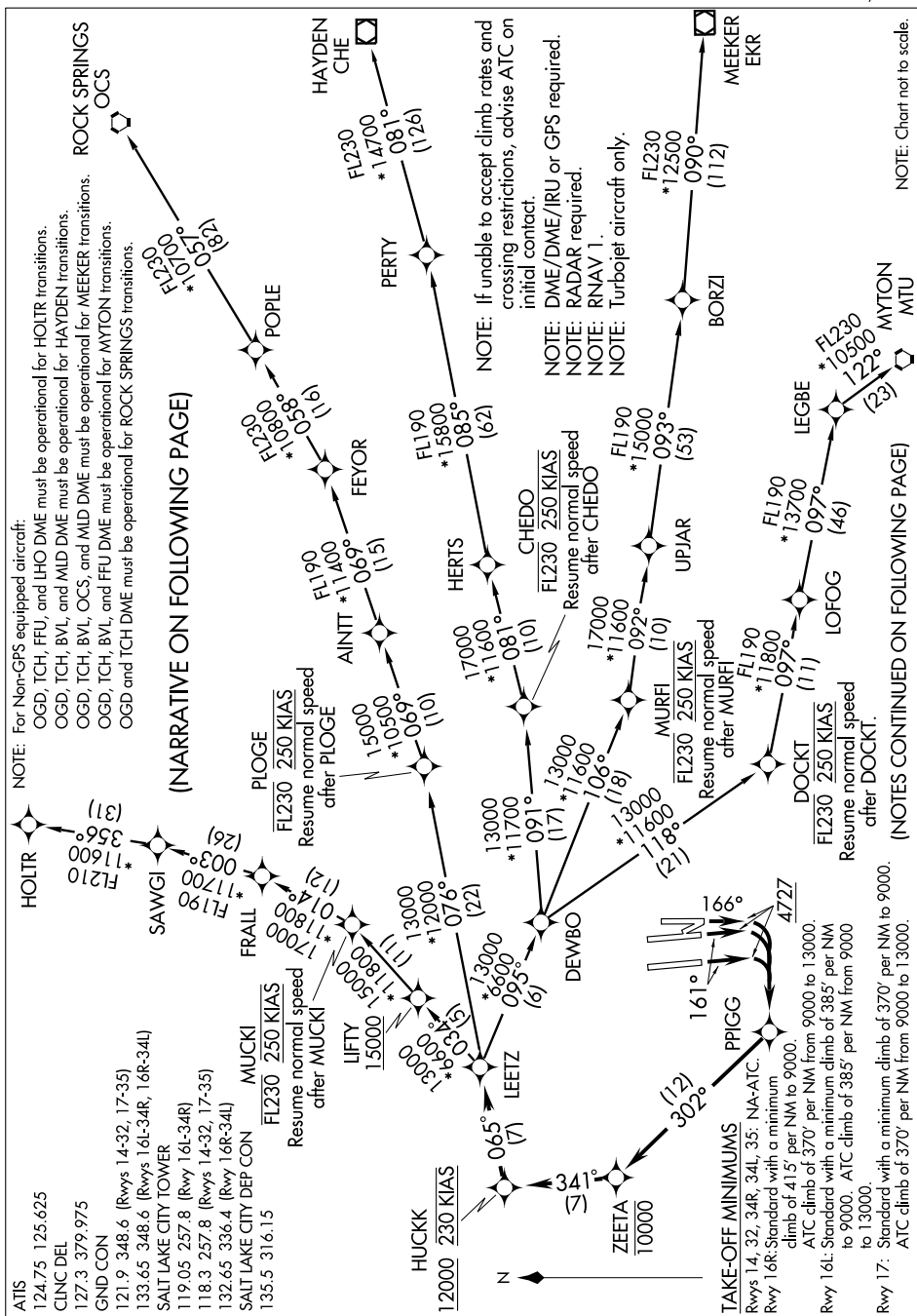
LEEHY THREE ARRIVAL (RNAV)

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAH

LEETZ TWO DEPARTURE (RNAV)

SALT LAKE CITY, UTAH



NOTE: Chart not to scale.

SW-4 14 JAN 2010 to 11 FEB 2010

LEETZ TWO DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16R/16L: Climb heading 161° to 4727, then right turn direct PPIGG, then via depicted route to LEETZ, thence....

TAKE-OFF RUNWAY 17: Climb heading 166° to 4727, then right turn direct PPIGG, then via depicted route to LEETZ, thence....

....via (transition) maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

HAYDEN TRANSITION (LEETZ2.CHE)

HOLTR TRANSITION (LEETZ2.HOLTR)

MEEKER TRANSITION (LEETZ2.EKR)

MYTON TRANSITION (LEETZ2.MTU)

ROCK SPRINGS TRANSITION (LEETZ2.OCS)

TAKE-OFF NOTES CONT.

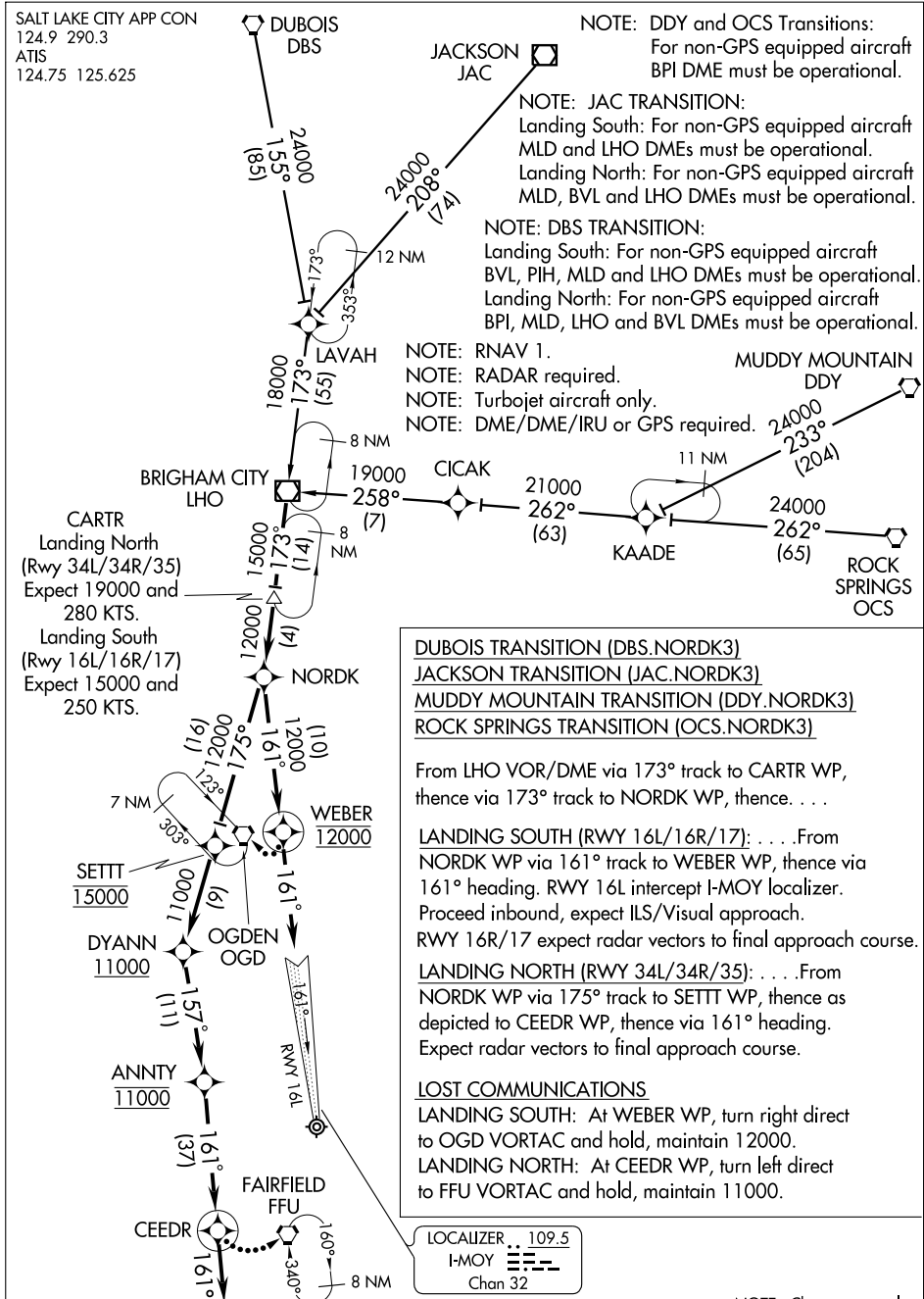
TAKE-OFF OBSTACLES

Rwy 16L, 16R, and 17: Multiple light poles beginning 988' from DER, 689' right of centerline, up to 34' AGL/4254' MSL.

Rwy 17: Vehicle on road 434' from DER, 518' right of centerline, 17' AGL/4237' MSL.

NORDK THREE ARRIVAL (RNAV)

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAH

NSIGN ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34R: Climb heading 341° to 4727, then left turn direct RATT0, then via depicted route to NSIGN, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 341° to 4727, then direct WETIK then via depicted route to NSIGN, thence. . . .

TAKE-OFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct MELEC, then via depicted route to NSIGN, thence. . . .

. . . .via (transition) maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

HAYDEN TRANSITION (NSIGN1.CHE)

HOLTR TRANSITION (NSIGN1.HOLTR)

MEEKER TRANSITION (NSIGN1.EKR)

MYTON TRANSITION (NSIGN1.MTU)

ROCK SPRINGS TRANSITION (NSIGN1.OCs)

Procedural Notes Cont.

NOTE: For Non-GPS equipped aircraft:

OGD, TCH, FFU, and LHO DMEs must be operational for HOLTR transitions.

OGD, TCH, BVL, and MLD DMEs must be operational for HAYDEN transitions.

OGD, TCH, BVL, OCS, and MLD DMEs must be operational for MEEKER transitions.

OGD, TCH, and MLD DMEs must be operational for MYTON transitions.

OGD and TCH DMEs must be operational for ROCK SPRINGS transitions.

PECOP TWO DEPARTURE (RNAV)

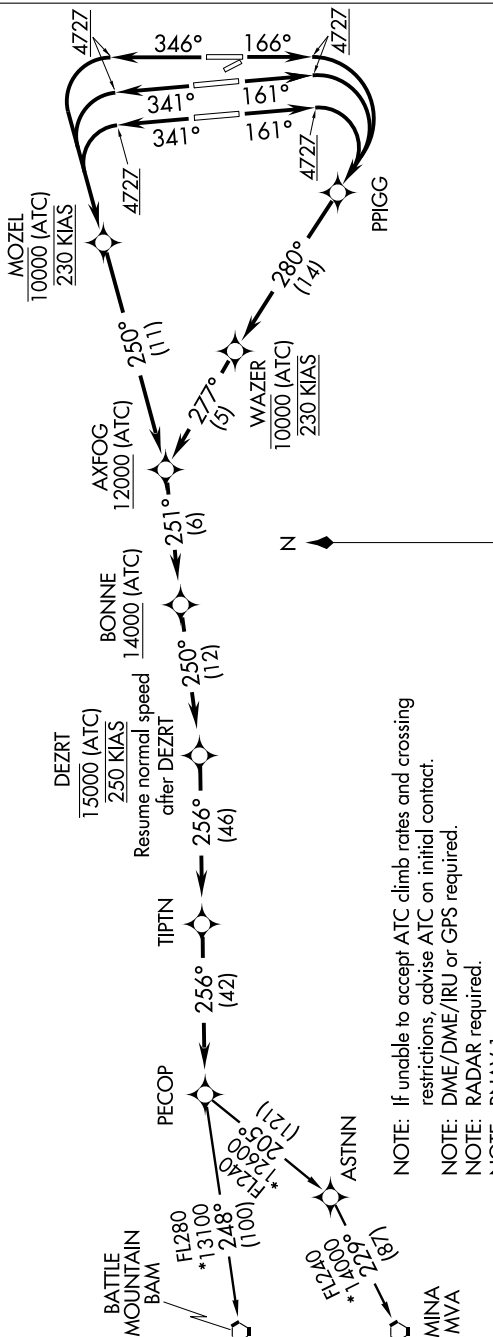
TAKE OFF OBSTACLES

Rwy 16L: Multiple light poles beginning 988' from DER, 689' right of centerline, up to 34' AGL/4254' MSL.
 Rwy 17: Vehicle on road 434' from DER, 518' right of centerline, 17' AGL/4237' MSL.
 Rwy 34R: Post 12' from DER, 349' right of centerline, 4' AGL/4227' MSL.
 Rwy 35: Post 55' from DER, 249' left of centerline, 4' AGL/4220' MSL.

TAKE-OFF MINIMUMS

Rwys 14, 32: NA- ATC.
 Rwy 16R: Standard with minimum climb of 413' per NM to 8300. ATC climb of 317' per NM to 14000.
 Rwy 16L: Standard with minimum climb of 381' per NM to 8300. ATC climb of 331' per NM to 14000.
 Rwy 17: Standard with minimum climb of 367' per NM to 7800. ATC climb of 341' per NM to 14000.
 Rwys 34R, 34L, 35: ATC climb of 359' per NM to 14000.

ATIS 124.75 125.625
 CLNC DEL
 127.3 379.975
 GND CON
 121.9 348.6 (Rwys 14-32, 17-35)
 133.65 348.6 (Rwys 16L-34R, 16R-34L)
 SALT LAKE CITY TOWER
 119.05 257.8 (Rwy 16L-34R)
 118.3 257.8 (Rwys 14-32, 17-35)
 132.65 336.4 (Rwy 16R-34L)
 SALT LAKE CITY DEP CON
 126.25 387.0



NOTE: If unable to accept ATC climb rates and crossing restrictions, advise ATC on initial contact.

NOTE: DME/DME/IRU or GPS required.

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: Turbojet aircraft only.

NOTE: For Non-GPS equipped aircraft:

OGD, TCH, BVL, LCU, and TWF DMEs must be operational for BATTLE MOUNTAIN transitions.

OGD, TCH, BVL, LCU, ILC, and MVA DMEs must be operational for MINA transitions departing Rwy 34R, 34L, 35.

OGD, TCH, BVL, LCU, ILC, OAL, and MVA DMEs must be operational for MINA transitions departing Rwy 16R, 16L, and 17.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

PECOP TWO DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16R/16L: Climb heading 161° to 4727, then right turn direct PPIGG, then via depicted route to PECOP, thence....

TAKE-OFF RUNWAY 17: Climb heading 166° to 4727, then right turn direct PPIGG, then via depicted route to PECOP, thence....

TAKE-OFF RUNWAY 34R: Climb heading 341° to 4727, then left turn direct MOZEL, then via depicted route to PECOP, thence....

TAKE-OFF RUNWAY 34L: Climb heading 341° to 4727, then left turn direct MOZEL, then via depicted route to PECOP, thence....

TAKE OFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct MOZEL, then via depicted route to PECOP, thence....

....via (transition) maintain 15000 or lower filed altitude. Expect filed altitude 10 minutes after departure.

BATTLE MOUNTAIN TRANSITION (PECOP2.BAM)

MINA TRANSITION (PECOP2.MVA)

QWENN THREE ARRIVAL (RNAV)

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAHBRYCE CANYON TRANSITION (BCE.QWENN3)MILFORD TRANSITION (MLF.QWENN3)

LANDING NORTH (RWY 34R/34L/35): From QWENN WP via 358° track to FFU VORTAC, then as depicted to PLAGE WP, then via 341° heading. RWY 34R intercept I-SLC localizer. Proceed inbound, expect ILS/Visual approach. RWY 34L/35 expect radar vectors to final approach course.

LOST COMMUNICATIONS

At PLAGE WP, turn left direct to FFU VORTAC and hold. Maintain 11000.

NOTE: BRYCE CANYON TRANSITION:

For non-GPS equipped aircraft FFU and PVU DMEs must be operational.

NOTE: MILFORD TRANSITION:

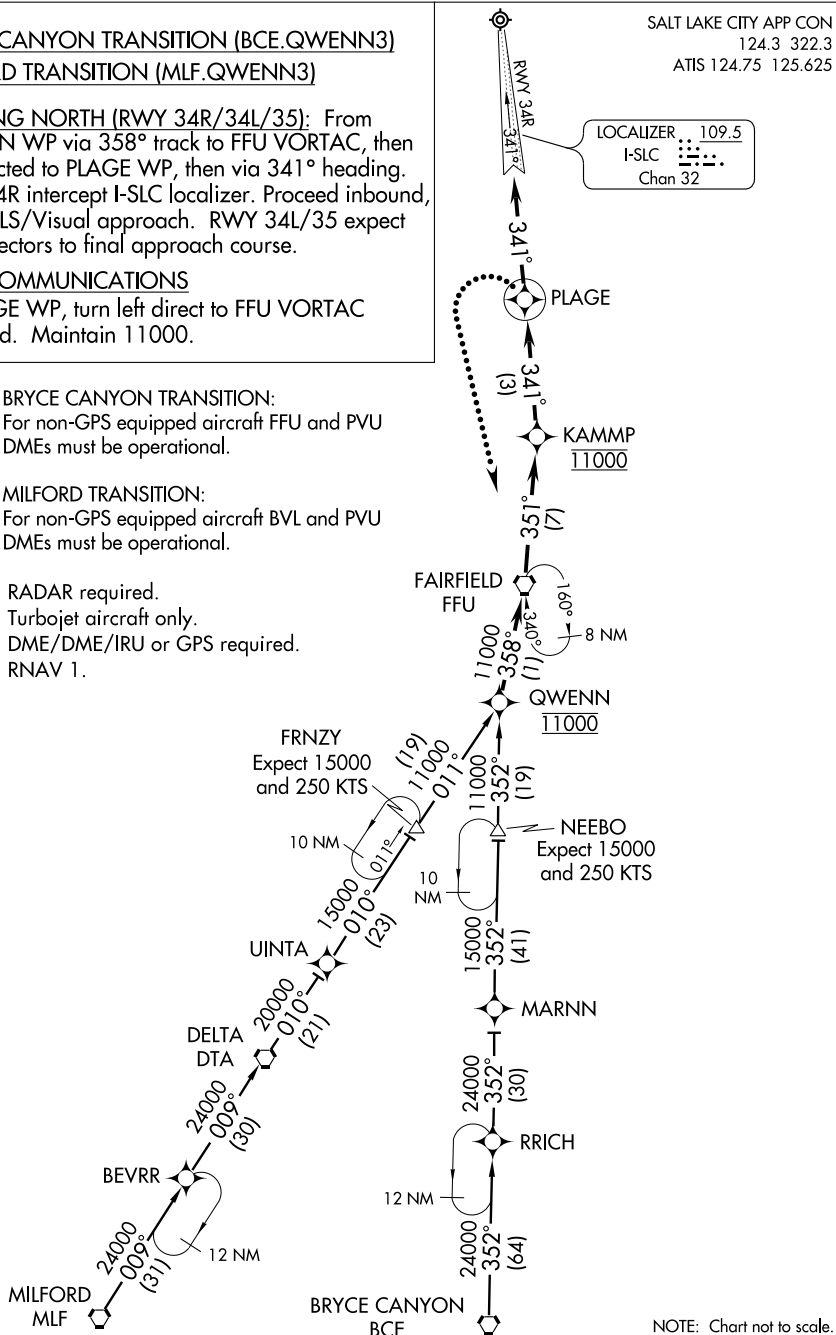
For non-GPS equipped aircraft BVL and PVU DMEs must be operational.

NOTE: RADAR required.

NOTE: Turbojet aircraft only.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.



NOTE: Chart not to scale.

▼

▲ NA

For inoperative ALSF, increase LNAV Cat E visibility to 2.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

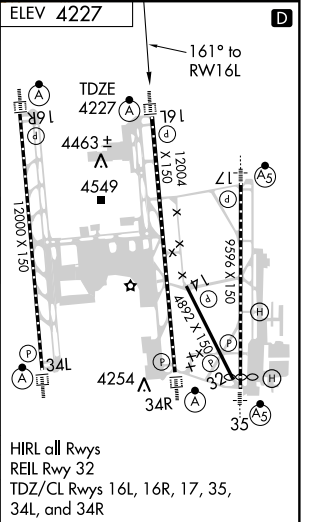
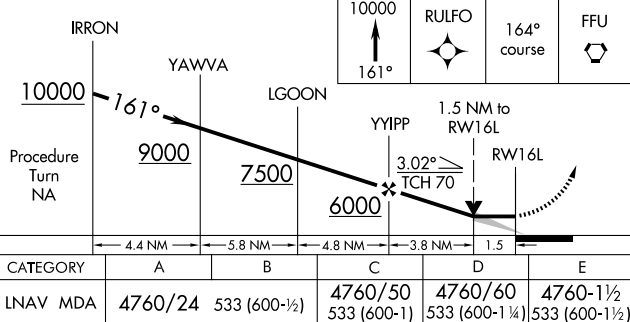
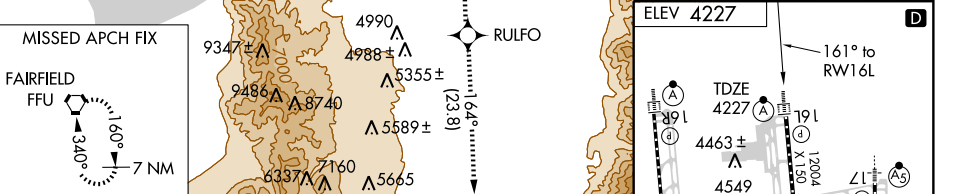
ALSF-2

ⓘ

ⓘ

MISSED APPROACH: Climb to 10000 via 161° course to RULFO WP then via 164° course to FFU VORTAC and hold.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER				GND CON			
124.75	124.3	119.05	257.8	118.3	257.8	132.65	336.4	121.9	348.6
125.625	322.3	(Rwy 16L-34R)		(Rwys 14-32, 17-35)		(Rwy 16R-34L)		(Rwys 14-32, 17-35)	
								133.65	348.6
								(Rwys 16L-34R, 16R-34L)	



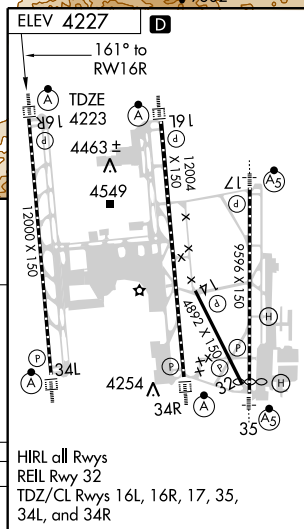
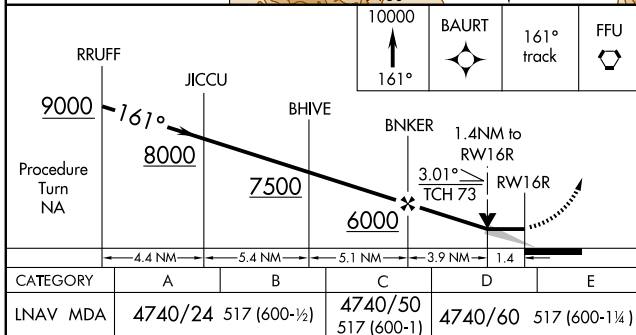
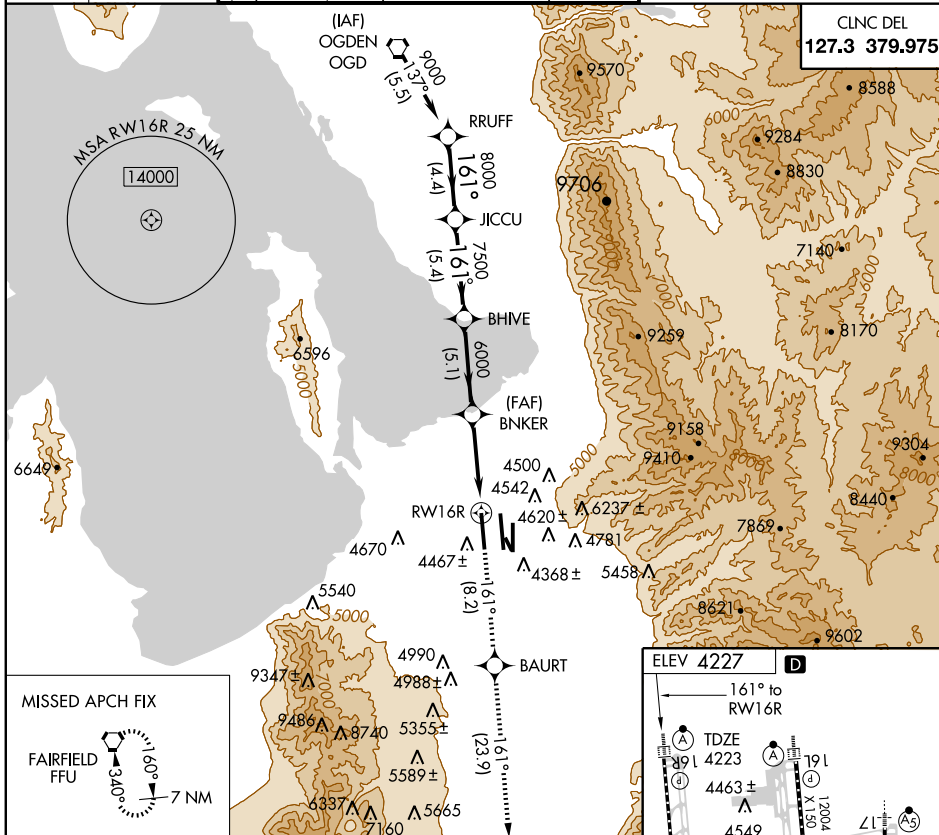
HIRL all Rwys
REIL Rwy 32
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R

APP CRS 161°	Rwy Idg TDZE Apt Elev	12000 4223 4227
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RNAV (GPS) RWY 16R
SALT LAKE CITY INTL (SLC)

  NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. For inoperative ALSF increase LNAV Cat E visibility to 1¾.	 ALSF-2	MISSED APPROACH: Climb to 10000 via 161° course to BAURT WP then 161° course to FFU VORTAC and hold.
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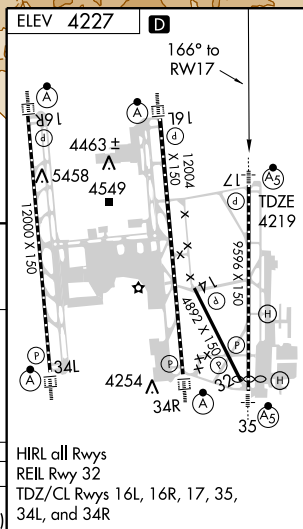
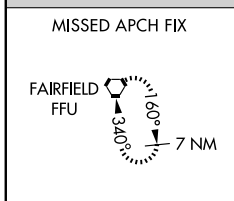
ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER						GND CON			
		119.05	257.8	118.3	257.8	132.65	336.4	121.9	348.6	133.65	348.6
		(Rwy 16L-34R)		(Rwys 14-32, 17-35)		(Rwy 16R-34L)		(Rwys 14-32, 17-35)		(Rwys 16L-34R, 16R-34L)	



RNAV (GPS) RWY 17
SALT LAKE CITY INTL (SLC)

MISSED APPROACH: Climb to 10000 via 166° course to ZOMJE WP, then via 164° course to FFU VORTAC and hold.

CLNC DEL
127.3 379.975



Baro-VNAV NA below -23°C (-9°F).

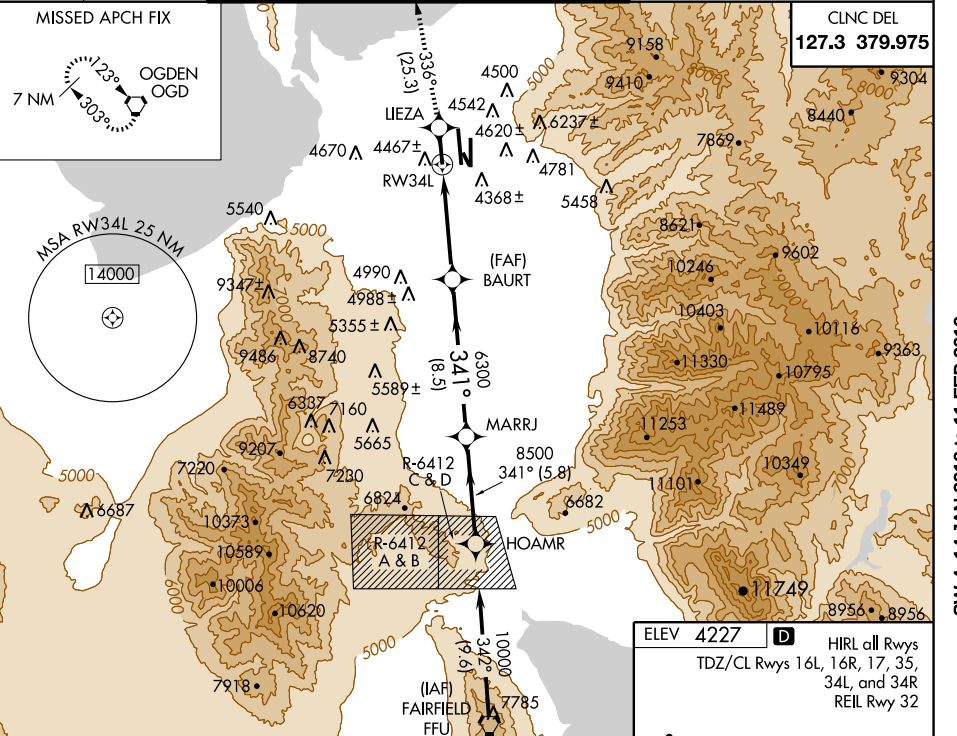
DME/DME RNP-0.3 NA.

For inoperative MALS R increase LNAV/VNAV Cat E visibility to 1½ and LNAV Cat E visibility to 1¼.

ALSF-2

MISSED APPROACH: Climb to 9000 via 341° course to LIEZA WP then via 336° course to OGD VORTAC and hold.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER			GND CON	121.9 348.6 (Rwys 14-32, 17-35)	133.65 348.6 (Rwys 16L-34R, 16R-34L)
119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)					



9000
341° crs

LIEZA

336° crs

OGD

VGSI and RNAV glidepath not coincident.

Procedure Turn NA

*LNAV only

*1.4 NM to RW34L

BAURT

MARRJ

HOAMR

10000

341°

8500

6300

GS 3.00°

TCH 65

CATEGORY	A	B	C	D	E
GLS PA	DA		NA		
LNAV/VNAV	DA	4640/50	414 (500-1)		
LNAV MDA	4720/24	494 (500-½)	4720/40 494 (500-¾)	4720/50 494 (500-1)	4720/60 494 (500-1½)
CIRCLING			NA		

ELEV 4227

D

HIRL all Rwys

TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R

REIL Rwy 32

SW-4. 14 JAN 2010 to 11 FEB 2010

APP CRS 341°	Rwy Idg 12004 TDZE 4222 Apt Elev 4227
------------------------	--

RNAV (GPS) RWY 34R

SALT LAKE CITY INTL (SLC)

T DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (105°F). For inoperative ALSF, increase Cat. E visibilities ½ mile.	ALSF-2 	MISSED APPROACH: Climb to 9000 via 341° course to ZEYU WP then 334° course to OGD VORTAC and hold.
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ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75		119.05 257.8	118.3 257.8	132.65 336.4	121.9 348.6	133.65 348.6
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwy 16L-34R, 16R-34L)

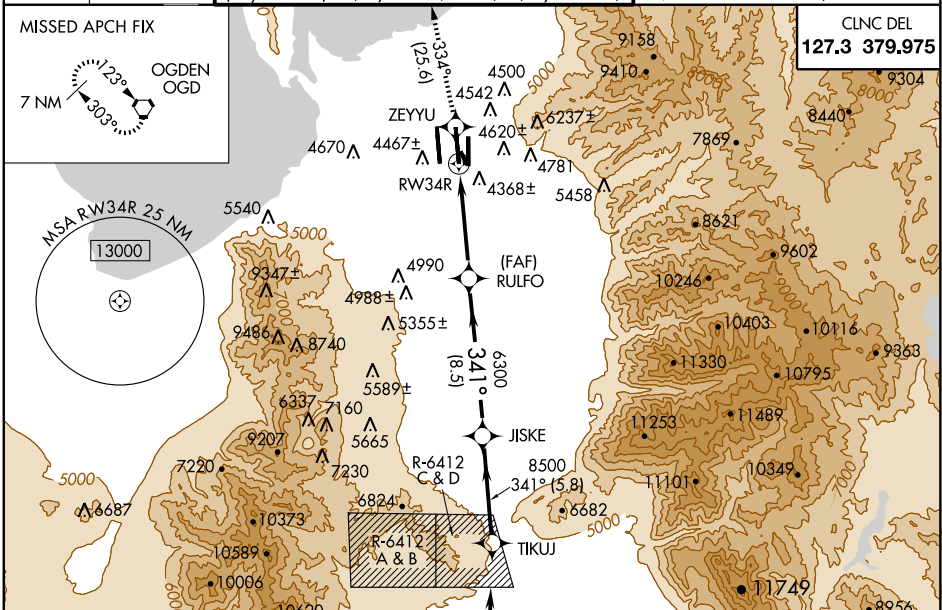
MISSED APCH FIX

7 NM

23°

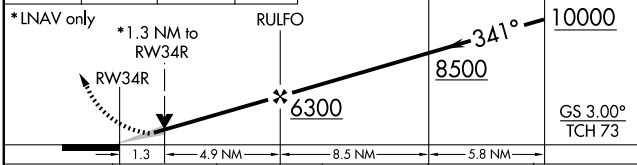
OGDEN
OGD

303°



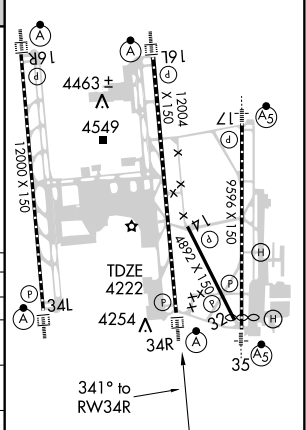
IAF ARM APPROACH MODE PRIOR TO THE IAF.

9000 ↑ 341°	ZEYU ✦	334° course	OGD ⬡	Procedure Turn NA JISKE	TIKUJ
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CATEGORY	A	B	C	D	E
GLS DA	NA				
LNAB/ VNAV DA	4734/60 512 (600-1¼)				
LNAB MDA	4700/24 478 (500-½)	4700/40 478 (500-¾)	4700/50 478 (500-1)	4700/60 478 (500-1¼)	
CIRCLING	NA				

ELEV 4227	D	HIRL all Rwys TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R REIL Rwy 32
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RNAV (GPS) RWY 35
SALT LAKE CITY INTL (SLC)

APP CRS	Rwy Idg	9272
343°	TDZE	4224
	Apt Elev	4227

Baro-VNAV NA below -23°C (-9°F).
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
For inoperative MALSR, increase LNAV/VNAV Cat. E
visibility to 1½. Increase LNAV Cat. E visibility to 2.

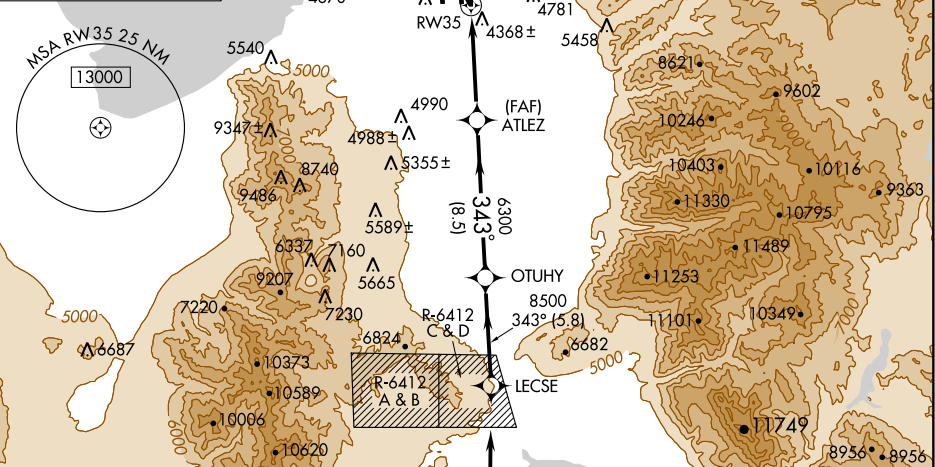
MALSR

MISSED APPROACH: Climb to 9000 via
343° course to VUTAW WP then 332°
course to OGD VORTAC and hold.

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER				GND CON	
124.75	124.3 322.3	119.05	257.8	118.3 257.8	132.65 336.4	121.9 348.6	133.65 348.6
125.625		(Rwy 16L-34R)		(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

MISSED APCH FIX

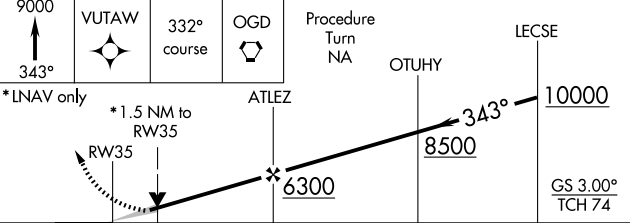
CLNC DEL
127.3 379.975



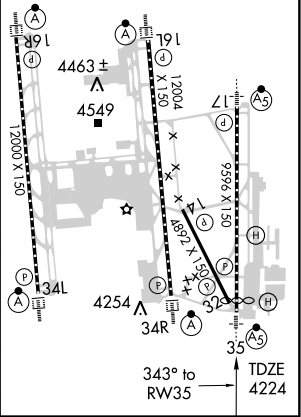
IAF ARM APPROACH MODE PRIOR TO THE IAF.

IAF FAIRFIELD FFU

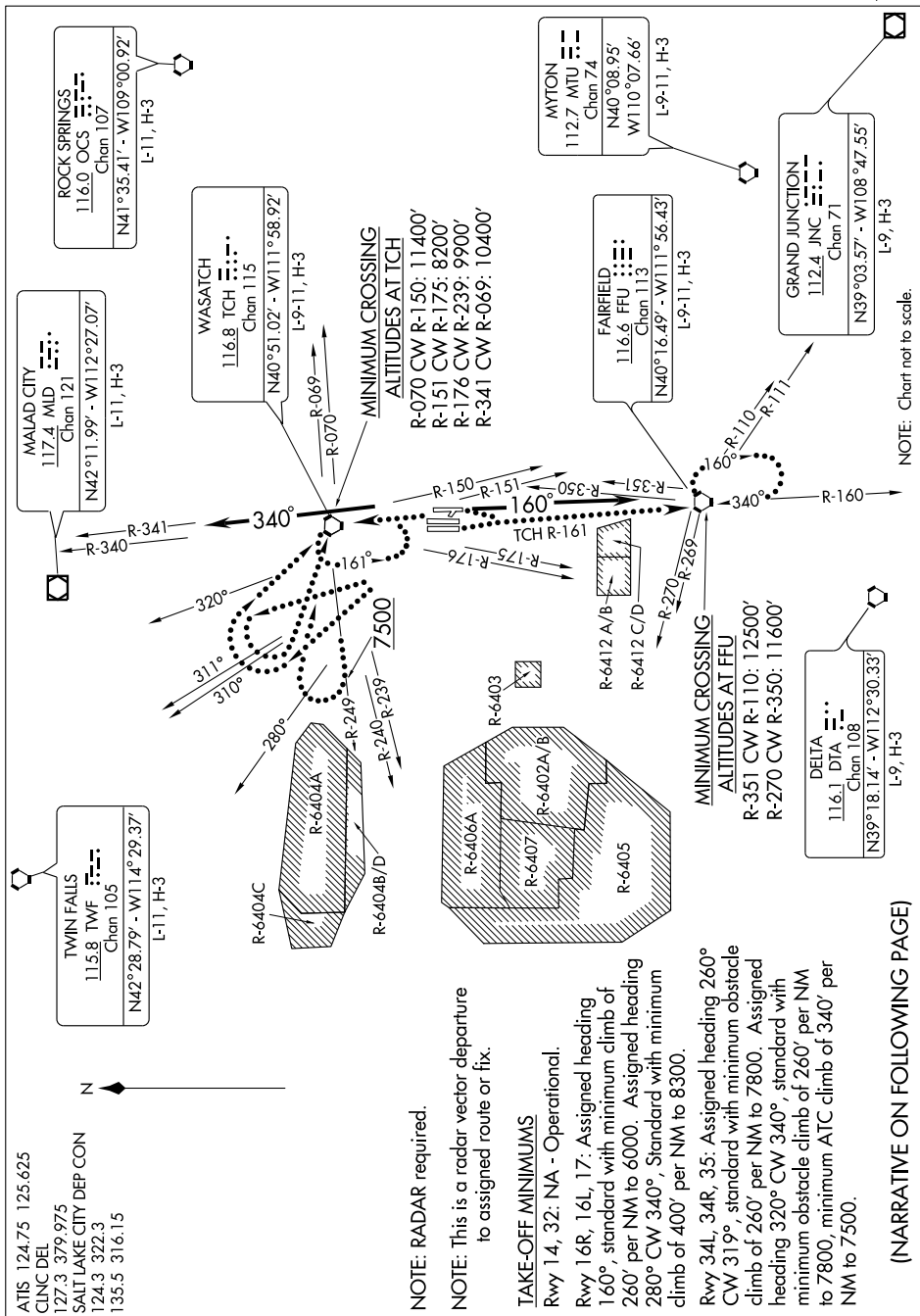
ELEV 4227	D	HIRL cll Rwys
		TDZ/CL Rwys 16L, 16R, 17, 35,
		34L, and 34R
		REIL Rwy 32



CATEGORY	DA	NA	C	D	E
GLS	DA				
LNAV/VNAV	DA	4680/50	456 (500-1)		
LNAV	MDA	4780/24 556 (600-½)	4780/50 556 (600-1)	4780/60 556 (600-1 ¼)	4780-1½ 556 (600-1 ½)
CIRCLING			NA		



SALT LAKE ONE DEPARTURE



(NARRATIVE ON FOLLOWING PAGE)

SALT LAKE ONE DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L, 16R, 17: Climb heading 160° or as assigned, maintain 10000' or assigned lower altitude. Thence. . . .

TAKE-OFF RUNWAY 34L, 34R, 35: Climb heading 340° or as assigned, maintain 10000' or assigned lower altitude. Thence. . . .

. . . . expect vectors to assigned route or fix. Expect clearance to filed altitude 10 minutes after departure. Aircraft filed/assigned heading 331° CW 109° expect radar vectors eastbound leaving 11000' due to high terrain east of TCH VORTAC.

LOST COMMUNICATIONS: If not in contact with Departure Control 1 minute after take-off:

Runways 16L and 17: Assigned heading 160°, turn right, thence. . . .

Runway 16R: Assigned heading 160°, turn left, thence. . . .

. . . . climb to 11000' via TCH R-161 to FFU VORTAC. Aircraft departing FFU VORTAC R-111 CW R-269, climb on assigned route. All others continue climb in FFU VORTAC holding pattern (Hold south, right turns, 340° inbound) to cross FFU VORTAC at or above: R-351 CW R-110, 12500'; R-270 CW R-350, 11600'.

Runway 16L, 16R, 17: Assigned heading 280° CW 340°, fly assigned heading to 11000'. Then, aircraft heading 280° CW through 310°, execute a climbing right turn thence. . . aircraft heading 311° CW 340° execute a climbing left turn, thence. . . . proceed direct TCH VORTAC. Cross TCH VORTAC at or above 11400' and proceed on course.

Runway 34L, 34R, 35: Climb direct TCH VORTAC. Aircraft departing TCH VORTAC R-240 CW R-340, climb on course. All others, continue climb via TCH R-249 to 7500', then climbing right turn direct TCH VORTAC. Continue climb in TCH VORTAC holding pattern (Hold south, left turns, 341° inbound) to cross TCH VORTAC at or above: R-070 CW R-150, 11400'; R-151 CW R-175, 8200'; R-176 CW R-239, 9900'; R-341 CW R-069, 10400'. Climb on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Vehicle 124' from DER, 14' right of centerline, 15' AGL/4239' MSL.
Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL.
Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL.

Rwy 17: Vehicles beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL.

Rwy 34R: Post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL.

Rwy 35: Post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

SEVYR ONE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 32, 34L/R, and 35: Fly heading 260° or as assigned for radar vectors to assigned route or fix. Maintain 10,000 or assigned lower altitude. Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within 1 minute after takeoff, fly assigned heading to 11,000. Then, aircraft assigned heading 310° CW through 340°, execute a climbing left turn, all others execute a climbing right turn to TCH VORTAC. Continue climb in the TCH VORTAC holding pattern (hold south, left turns, 341° inbound) to cross TCH VORTAC at or above 11,500. Proceed on course.

COALDALE TRANSITION (SEVYR1.OAL): From over TCH VORTAC via TCH R-193 and MLF R-350 to SEVYR INT, then via DTA R-238 and OAL R-054 to OAL VORTAC.

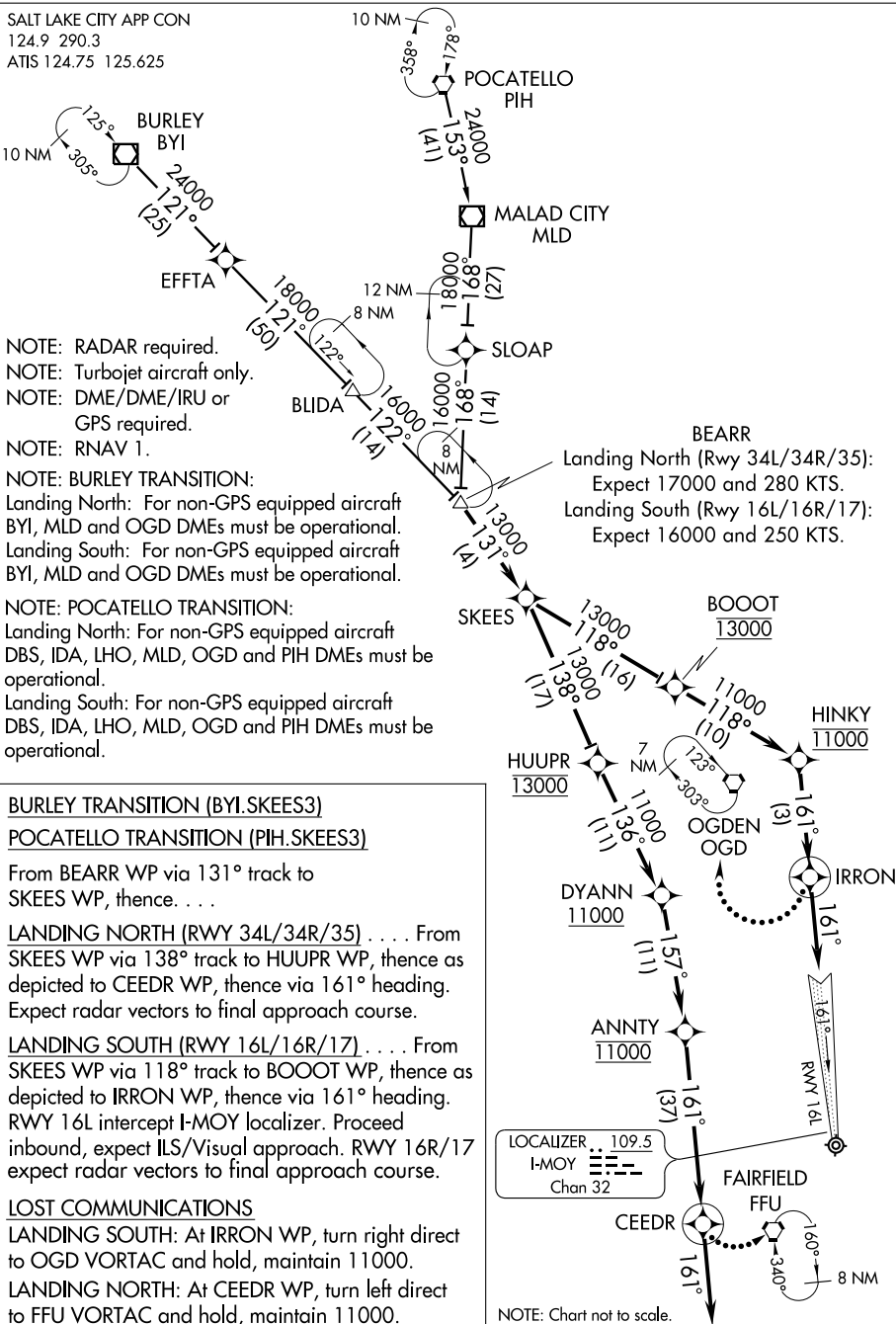
MILFORD TRANSITION (SEVYR1.MLF): From over TCH VORTAC via TCH R-193 and MLF R-350 to MLF VORTAC.

SKES THREE ARRIVAL (RNAV)

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAH

SALT LAKE CITY APP CON
124.9 290.3
ATIS 124.75 125.625



SPANE FIVE ARRIVAL

ST-365 (FAA)

SALT LAKE CITY INTL
SALT LAKE CITY, UTAH

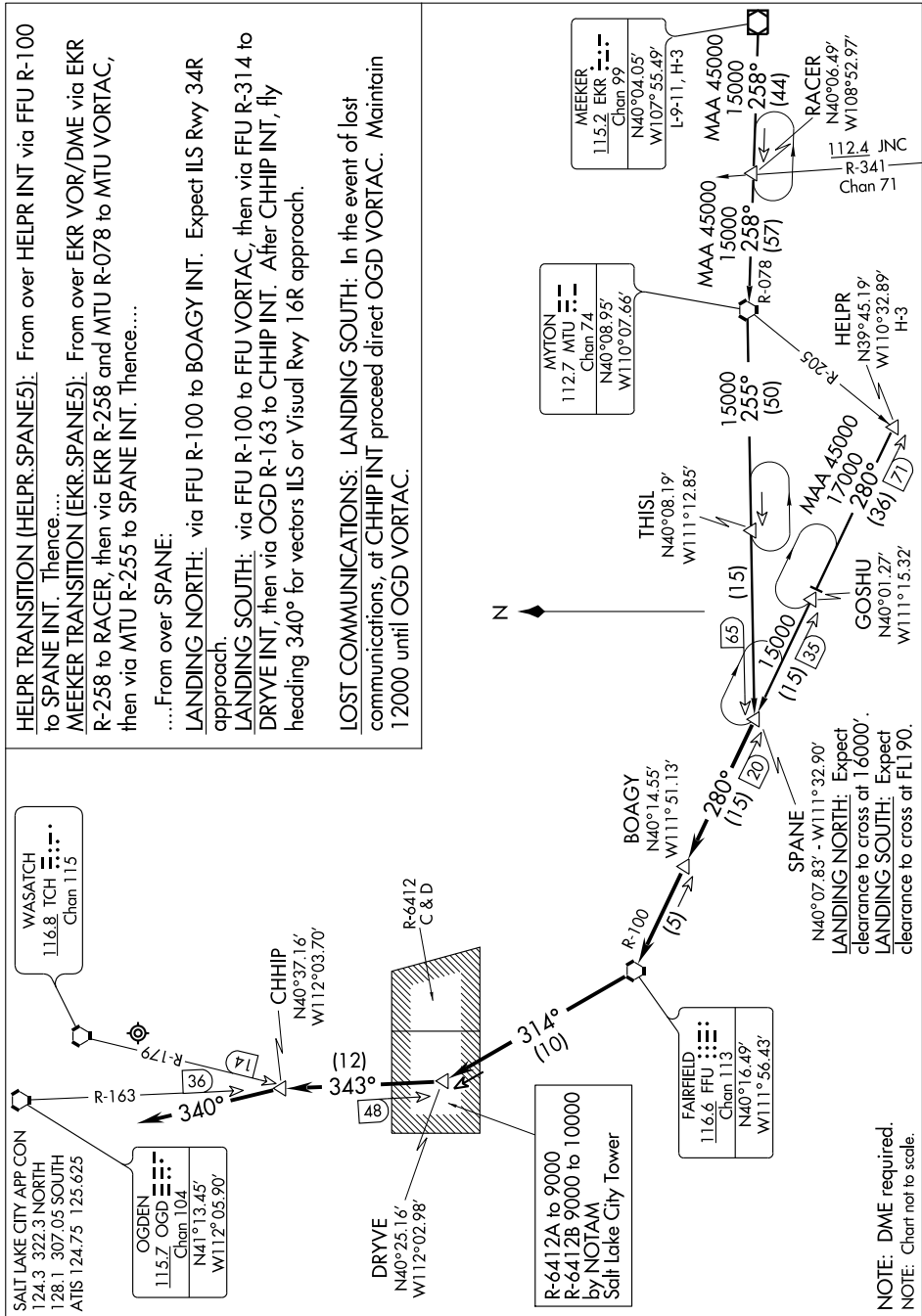
HELPR TRANSITION (HELPR.SPANE5): From over: HELPR INT via FFU R-100 to SPANE INT. Thence....

.....From over SPANE:

LANDING NORTH: via FFU R-100 to BOAGY INT. Expect ILS Rwy 34R approach.

LANDING SOUTH: via FFU R-100 to FFU VORTAC, then via FFU R-314 to DRYE INT, then via OGD R-163 to CHHIP INT. After CHHIP INT, fly heading 340° for vectors ILS or Visual Rwy 16R approach.

LOST COMMUNICATIONS: LANDING SOUTH: In the event of lost communications, at CHHIP INT proceed direct OGD VORTAC. Maintain 12000 until OGD VORTAC.



SW-4 14 JAN 2010 to 11 FEB 2010

NOTE: DME required.
NOTE: Chart not to scale.

TWIN FALLS ONE DEPARTURE (RNAV)

TAKE-OFF OBSTACLES

Rwy 16L: Multiple light poles beginning 988' from DER, 689' right of centerline, up to 34' AGL/4254' MSL.
 Rwy 17: Vehicle on road 434' from DER, 518' right of centerline, 17' AGL/4237' MSL.
 Rwy 34R: Post 12' from DER, 349' right of centerline, 4' AGL/4227' MSL.
 Rwy 35: Post 55' from DER, 249' left of centerline, 4' AGL/4220' MSL.

ATIS 124.75 125.625
 CLNC DEL 127.3 379.975
 GND CON 121.9 348.6 (Rwys 14-32, 17-35)
 133.65 348.6 (Rwys 16L-34R, 16R-34L)
 SALT LAKE CITY TOWER 119.05 257.8 (Rwy 16L-34R)
 118.3 257.8 (Rwys 14-32, 17-35)
 132.65 336.4 (Rwy 16R-34L)
 SALT LAKE CITY DEP CON 126.25 387.0

TAKE-OFF MINIMUMS

Rwys 14, 32, NA- ATC.

Rwy 16R: Standard with minimum climb of 413' per NM to 8300. ATC climb of 287' per NM to 15000.

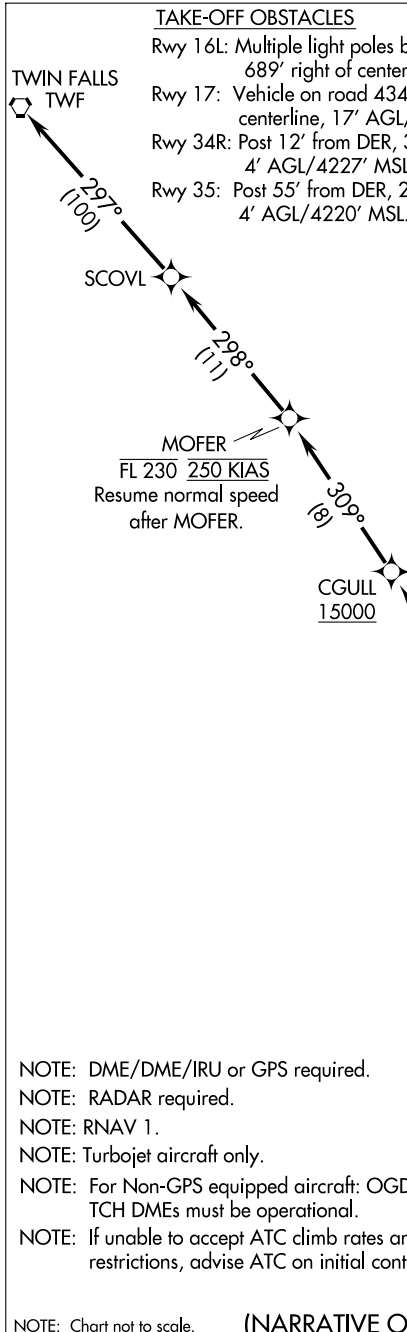
Rwy 16L: Standard with minimum climb of 381' per NM to 8300. ATC climb of 285' per NM to 15000.

Rwy 17: Standard with minimum climb of 367' per NM to 7800. ATC climb of 292' per NM to 15000.

Rwy 34R: Standard with minimum climb of 238' per NM to 7700. ATC climb of 365' per NM to 15000.

Rwy 34L: Standard with minimum climb of 253' per NM to 7700. ATC climb of 365' per NM to 15000.

Rwy 35: Standard with a minimum climb of 226' per NM to 7700. ATC climb of 365' per NM to 15000.



NOTE: DME/DME/IRU or GPS required.

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: Turbojet aircraft only.

NOTE: For Non-GPS equipped aircraft: OGD and TCH DMEs must be operational.

NOTE: If unable to accept ATC climb rates and crossing restrictions, advise ATC on initial contact.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

TWIN FALLS ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16R/16L: Climb heading 161° to 4727, then right turn direct PPIGG, then via depicted route to TWF VORTAC, thence. . . .

TAKE-OFF RUNWAY 17: Climb heading 166° to 4727, then right turn direct PPIGG, then via depicted route to TWF VORTAC, thence. . . .

TAKE-OFF RUNWAY 34R: Climb heading 341° to 4727, then left turn direct SHOLZ, then via depicted route to TWF VORTAC, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 341° to 4727, then left turn direct SHOLZ, then via depicted route to TWF VORTAC, thence. . . .

TAKE OFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct SHOLZ, then via depicted route to TWF VORTAC, thence. . . .

...maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

VORTAC TCH 116.8 Chan 115	APP CRS 159°	Rwy Idg 12004 TDZE 4227 Apt Elev 4227
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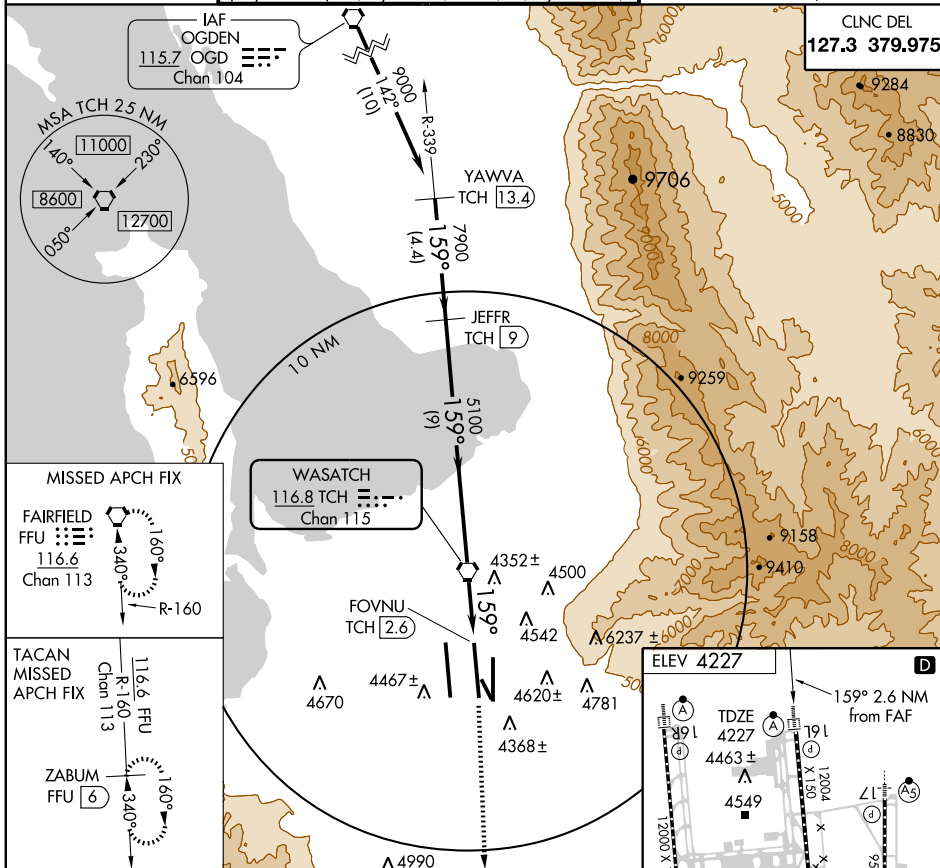
VOR/DME or TACAN RWY 16L
SALT LAKE CITY INTL (SLC)

T For inoperative ALSF, increase S-16L Cat. E visibility to 1 $\frac{3}{4}$.

ALSF-2

MISSED APPROACH: Climb to 10000 direct FFU VORTAC and hold. (TACAN equipped aircraft continue via FFU R-160 to ZABUM/FFU 6 DME and hold south, right turn, 340° inbound.)

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER						GND CON			
		119.05	257.8	118.3	257.8	132.65	336.4	121.9	348.6	133.65	348.6
		(Rwy 16L-34R)		(Rwys 14-32, 17-35)		(Rwy 16R-34L)		(Rwys 14-32, 17-35)		(Rwys 16L-34R, 16R-34L)	



CATEGORY	A	B	C	D	E
S-16L	4720/24	493 (500-½)	4720/40 493 (500-¾)	4720/50 493 (500-1)	4720/60 493 (500-1¼)
CIRCLING	NA				

HIRL all Rwy's
REIL Rwy 32
TDZ/CL Rwy's 16L, 16R, 17, 35,
34L, and 34R

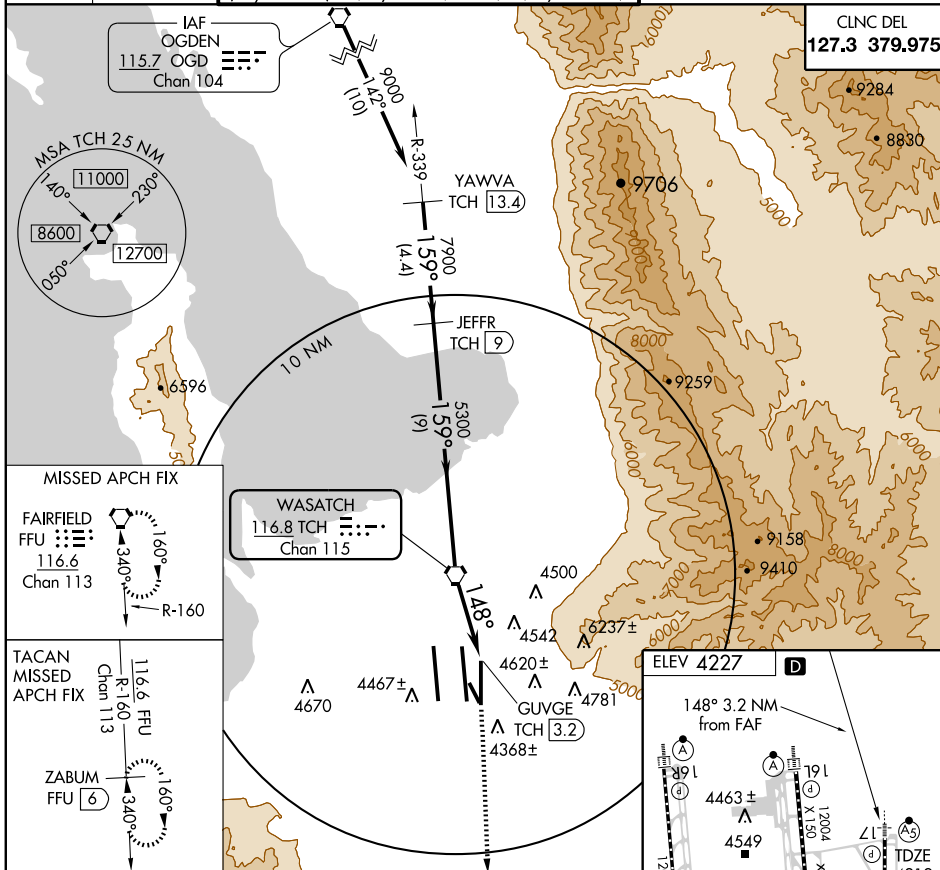
VORTAC TCH	APP CRS	Rwy Idg	9596
116.8	148°	TDZE	4219
Chan 115		Apt Elev	4227

VOR/DME or TACAN RWY 17

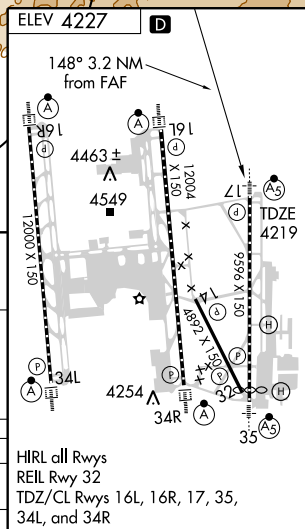
SALT LAKE CITY INTL (SLC)

	Inoperative table does not apply.	MALSR	MISSED APPROACH: Climb to 10000 direct FFU VORTAC and hold. (TACAN equipped aircraft continue via FFU R-160 to ZABUM/FFU 6 DME and hold south, right turn, 340° inbound.)
			

ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER				GND CON	
124.75		119.05	257.8	118.3	257.8	132.65	336.4
125.625	124.3 322.3	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)		121.9 348.6	133.65 348.6
						(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)



YAWVA TCH 13.4	JEFFR TCH 9	VORTAC	TCH 1.6	10000	FFU 116.6
9000	7900	5300	3.01° TCH 55		
Procedure Turn NA	159°	148°			
4.4 NM	9 NM	1.6 NM	1.6 NM		
CATEGORY	A	B	C	D	E
S-17	4800/50	581 (600-1)	4800-1½ 581 (600-1½)	4800-1¾ 581 (600-1¾)	4800-2 581 (600-2)
CIRCLING	NA				



HIRE all Rwy's
REIL Rwy 32
TDZ/CL Rwy's 16L, 16R, 17, 35,
34L, and 34R

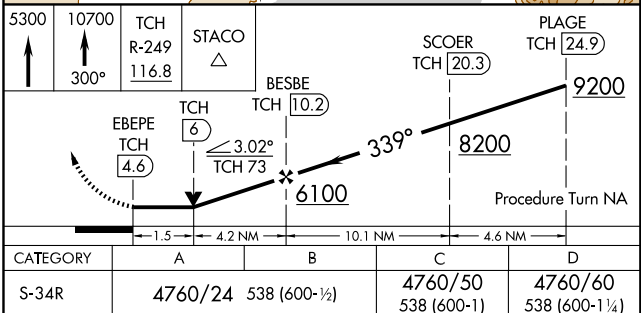
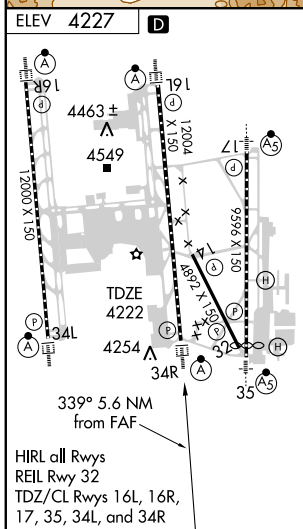
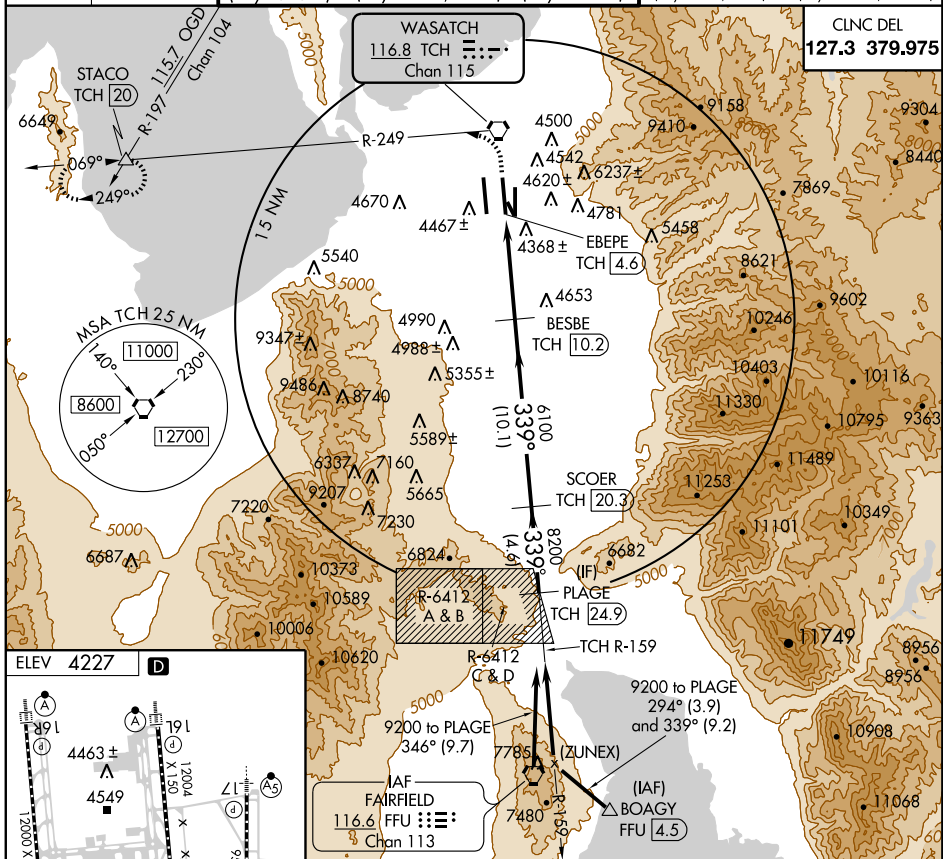
VORTAC TCH <u>116.8</u> Chan 115	APP CRS 339°	Rwy Idg 12004 TDZE 4222 Apt Elev 4227
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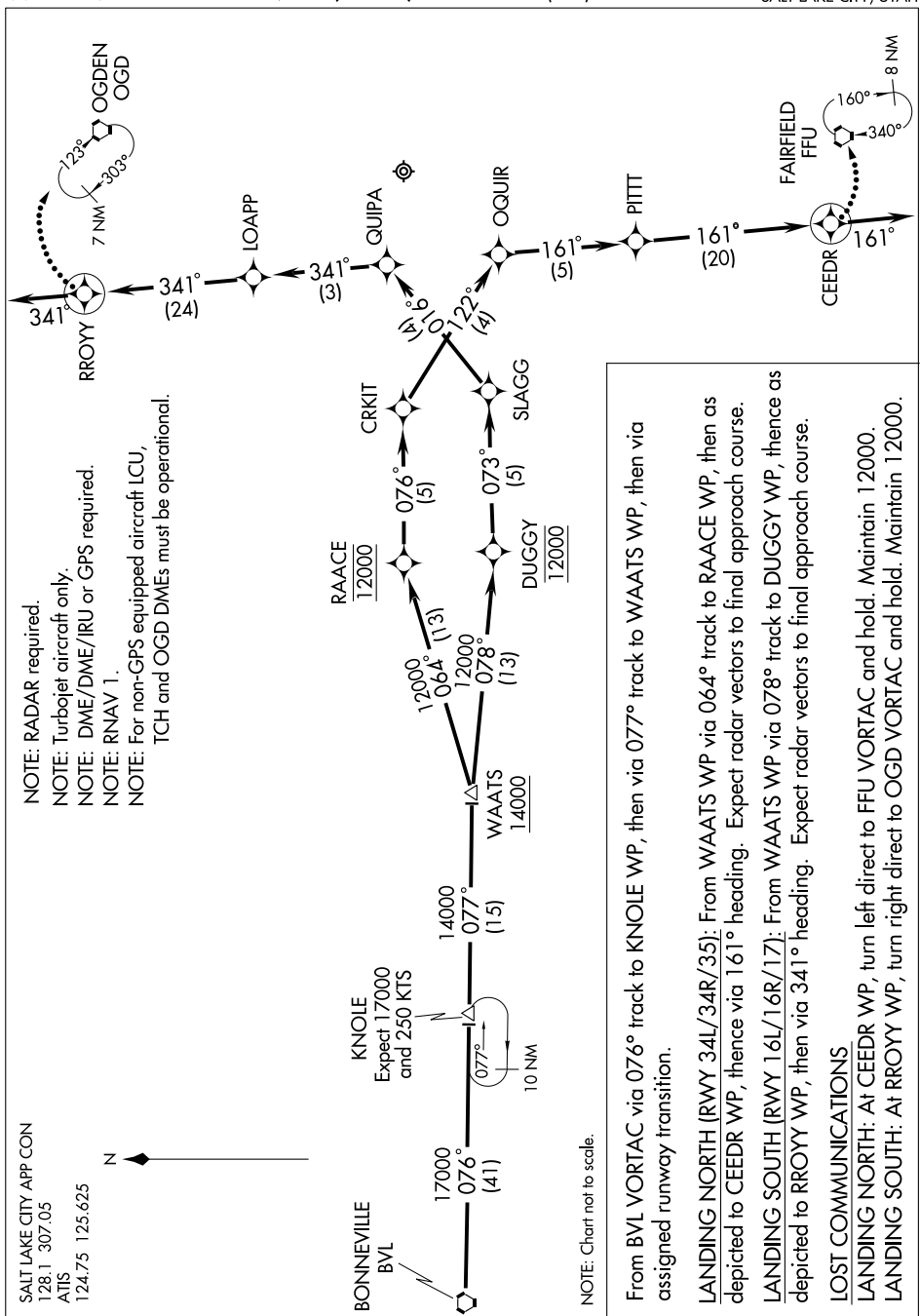
VOR/DME RWY 34R

SALT LAKE CITY INTL (SLC)

	ALSF-2 	MISSED APPROACH: Climb to 5300 then climb to 10700 via heading 300° and TCH VORTAC R-249 to STACO INT/20 DME and hold, continue climb-in-hold to 10700.
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ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwys 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)			GND CON 121.9 348.6 133.65 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)		
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WEVIC ONE DEPARTURE (RNAV)

NOTE: If unable to accept ATC climb rates and crossing restrictions, advise ATC on initial contact.

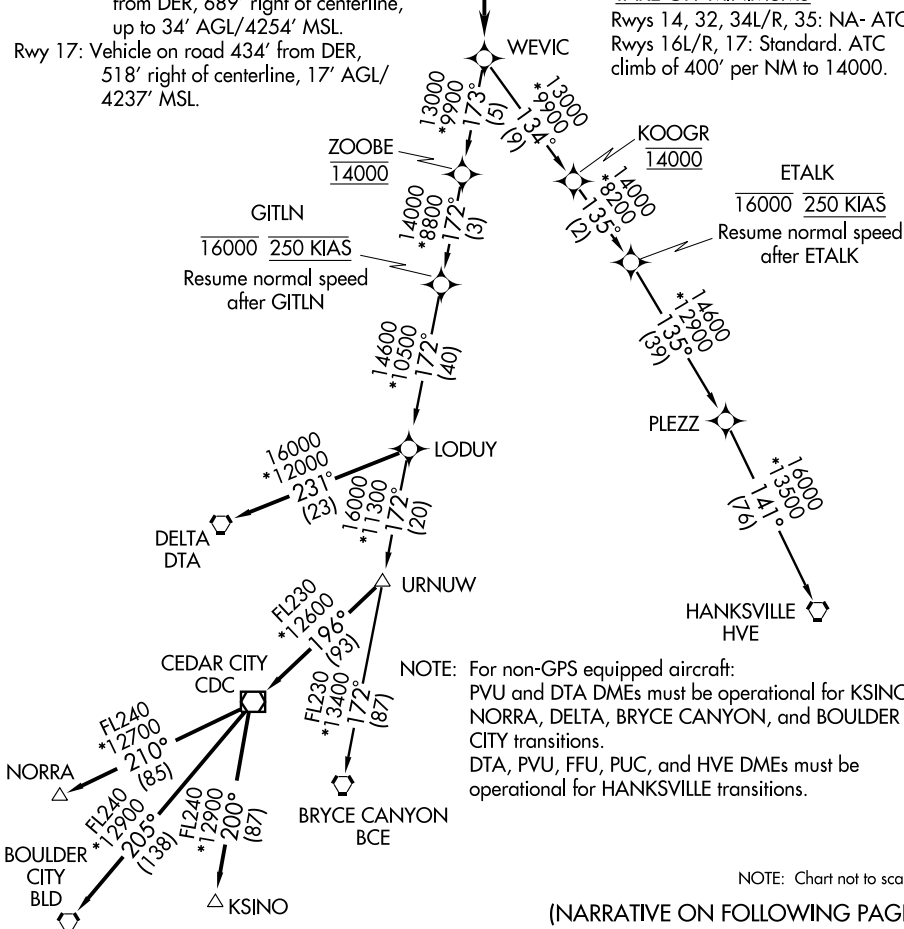
NOTE: DME/DME/IRU or GPS required.

NOTE: Radar required.

NOTE: RNAV 1.

NOTE: Turbojet aircraft only.

Rwys 14, 32, 34L/R, 35: NA- ATC.
Rwys 16L/R, 17: Standard. ATC
climb of 400' per NM to 14000.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

WEVIC ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16R: Climb heading 161° to 4727, then left turn direct HOPTO, then via depicted route to WEVIC, thence. . .

TAKE-OFF RUNWAY 16L: Climb heading 161° to 4727, then right turn direct HOPTO, then via depicted route to WEVIC, thence. . .

TAKE-OFF RUNWAY 17: Climb heading 166° to 4727, then left turn direct HOPTO, then via depicted route to WEVIC, thence. . .

. . . .via (transition) maintain 16000 or lower filed altitude. Expect filed altitude 10 minutes after departure.

BRYCE CANYON TRANSITION (WEVIC1.BCE)

BOULDER CITY TRANSITION (WEVIC1.BLD)

DELTA TRANSITION (WEVIC1.DTA)

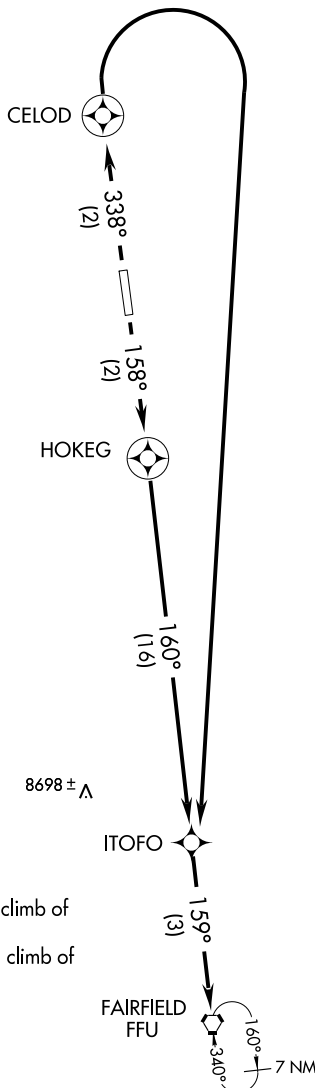
HANKSVILLE TRANSITION (WEVIC1.HVE)

KSINO TRANSITION (WEVIC1.KSINO)

NORRA TRANSITION (WEVIC1.NORRA)

ITOFO ONE DEPARTURE (RNAV)

SALT LAKE CITY DEP CON
120.2 124.3 322.3
CLNC DEL
127.0
UNICOM 122.7 (CTAF)
AWOS-3 134.425

6818± Δ 8698± Δ TAKE-OFF MINIMUMS

RWY 16: Standard with a minimum climb of
280' per NM to 7100.

RWY 34: Standard with a minimum climb of
495' per NM to 9000.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 9000 via 158° course to HOKEG WP, 160° course to ITOFO WP, and 159° course to FFU VORTAC and hold.

TAKE-OFF RUNWAY 34: Climb to 9000 via 338° course to CELOD WP, climbing right turn direct ITOFO WP, and 159° course to FFU VORTAC and hold.

All aircraft expect further clearance to filed altitude and route within ten minutes after departure.

▼

▲ NA

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Salt Lake City
Intl altimeter setting and increase all MDAs 80 feet.
VDP NA when using Salt Lake City Intl altimeter setting.

MISSED APPROACH: Climb to 9000 direct
DUYDE and via 309° track to KITBE
and via 270° track to STACO and hold.

AWOS-3 134.425	SALT LAKE CITY APP CON 120.2 124.3 322.3	CLNC DEL 127.0	UNICOM 122.7 (CTAF) 0
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All arrivals descend to 10000 in FFU VORTAC holding pattern before departing FFU VORTAC.								
9000	DUYDE	309° Track	KITBE	270° Track	STACO	VGSI and descent angles not coincident.		7 NM Holding Pattern
HOKIT 1.6 NM to RW34		ACIPO 4.2 NM to RW34		LODME		KOCEN		VORTAC
1 NM to RW34		3.08° TCH 40		340°		160°		9000
5140		6000		7600		9000		9000
1 NM		0.6		2.7 NM		4.8 NM		7 NM
CATEGORY		A		B		C		D
LNAV MDA		5060-1		454 (500-1)		5060-1¼ 454 (500-1¼)		5060-1½ 454 (500-1½)
CIRCLING		5140-1		533 (600-1)		5320-2 713 (800-2)		5460-2¾ 853 (900-2¾)

SW-4, 14 JAN 2010 to 11 FEB 2010

APP CRS 338°	Rwy Idg 5622 TDZE 4606 Apt Elev 4607
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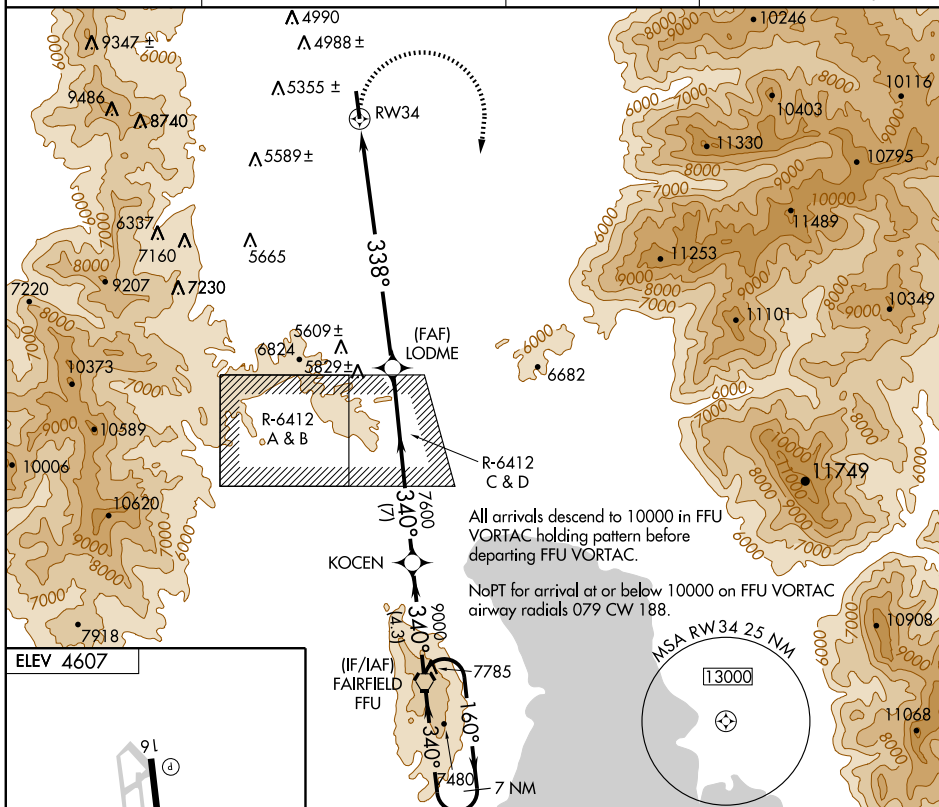
RNAV (GPS) Z RWY 34

SALT LAKE CITY / SOUTH VALLEY RGNL (U42)

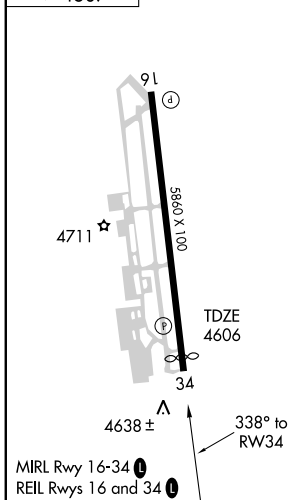
T	DME/DME RNP-0.3 NA.
A NA	If local altimeter setting not received, use Salt Lake City Intl altimeter setting and increase all MDAs 80 feet. VDP NA when using Salt Lake City Intl altimeter setting.

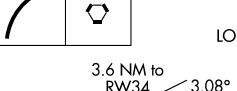
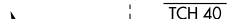
MISSED APPROACH: Climbing right turn to 9000 direct FFU VORTAC and hold.

AWOS-3 134.425	SALT LAKE CITY APP CON 120.2 124.3 322.3	CLNC DEL 127.0	UNICOM 122.7 (CTAF) 0
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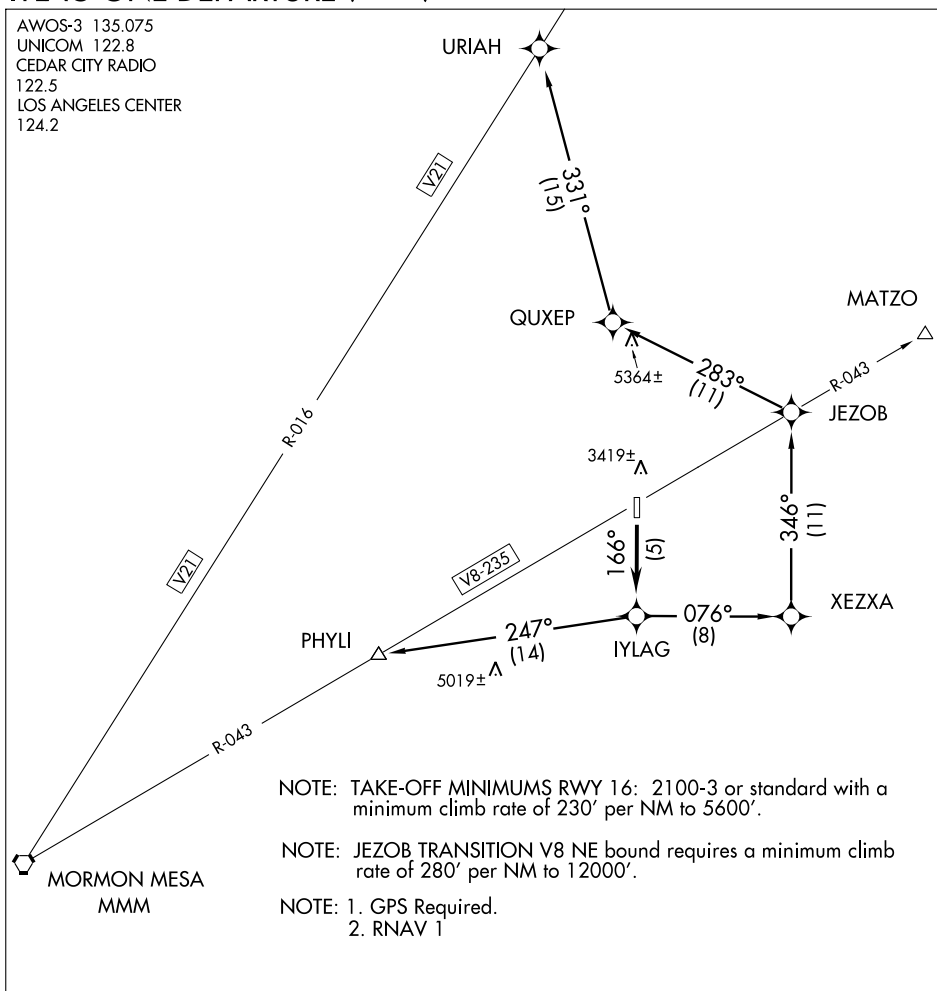
ELEV 4607



9000 	FFU 	VGS1 and descent angles not coincident.		7 NM Holding Pattern	
		LODME	KOCEN	VORTAC	
					
CATEGORY	A	B	C		D
LNAV MDA	6160-1¼ 1554 (1600-1¼)	6160-1½ 1554 (1600-1½)	6160-3		1554 (1600-3)
CIRCLING	6160-1¼ 1553 (1600-1¼)	6160-1½ 1553 (1600-1½)	6160-3		1553 (1600-3)

IYLAG ONE DEPARTURE (RNAV)

AWOS-3 135.075
UNICOM 122.8
CEDAR CITY RADIO
122.5
LOS ANGELES CENTER
124.2



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 12000 (or assigned altitude) via course 166° to IYLAG WP then via assigned transition/route.

TAKE-OFF RUNWAY 34: Not authorized.

JEZOB TRANSITION (IYLAG1.JEZOB): From over IYLAG WP via course 076° to XEZXA WP, then via course 346° to JEZOB WP.

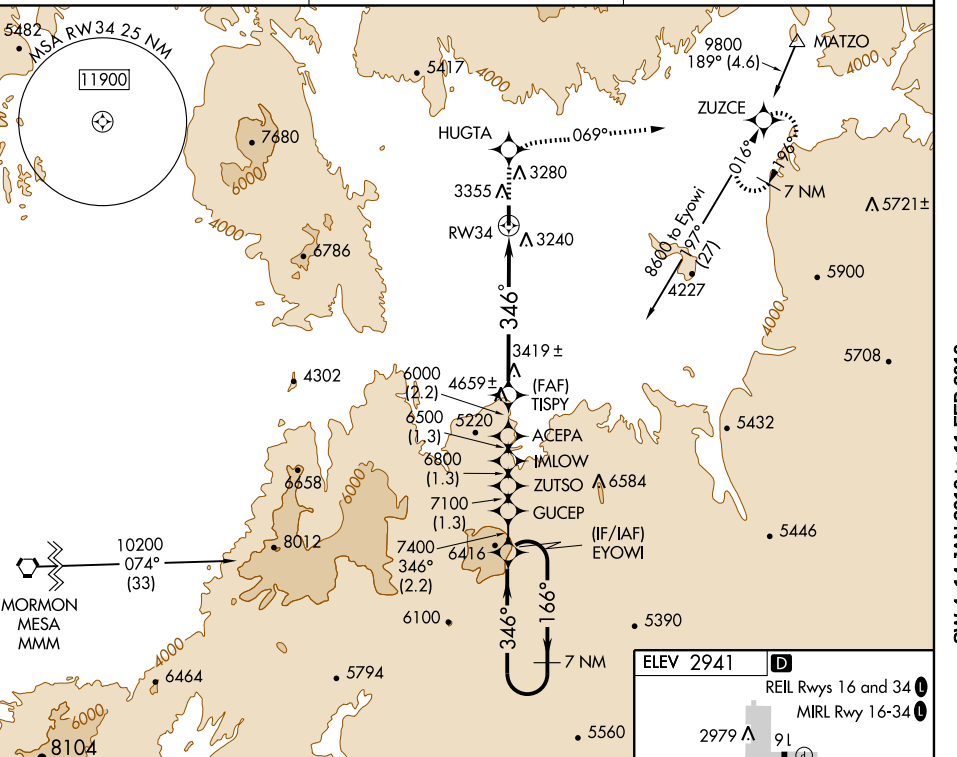
PHYLI TRANSITION (IYLAG1.PHYLI)

URIAH TRANSITION (IYLAG1.URIAH)

DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8600 direct HUGTA and via 069° track to ZUZCE and hold, continue climb-in-hold to 8600.

AWOS-3 135.075	CEDAR CITY RADIO 122.5	UNICOM 122.8 (CTAF)
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8600	HUGTA	069° track	ZUZCE	EYOWI	7 NM Holding Pattern
VGSI and RNAV glidepath not coincident.					
* LNAV only					
3.3 5.8 NM 2.2 1.3 1.3 1.3 2.2					
CATEGORY	A	B	C	D	
LPV DA	3555-2¼ 649 (700-2¼)				
LNAV MDA	3960-1¼ 1054 (1100-1¼)	3960-1½ 1054 (1100-1½)	3960-3	1054	1100-3
CIRCLING	3960-2¼	1019 (1100-2¼)	3960-3	1019	1100-3

ELEV 2941

REIL Rwy 16 and 34

MIRL Rwy 16-34

2979

91

2963

6606 x 100

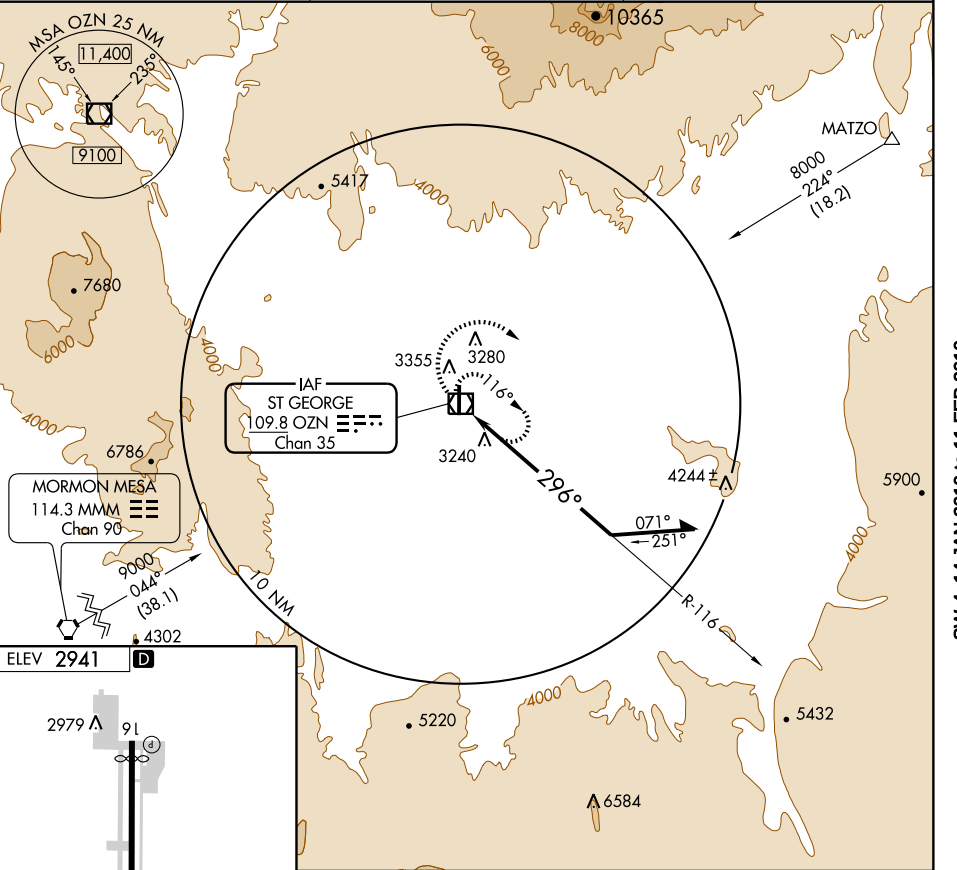
1.1% UP

346° to RWY 34

SW-4, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climbing right turn to 7000 in OZN VOR/DME holding pattern.

AWOS-3 135.075	CEDAR CITY RADIO 122.5	UNICOM 122.8 (CTAF) 0
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ELEV **2941**

109.8

7000

VOR/DME

Remain within 10 NM

2963

296° to OZN VOR/DME

6606 x 100

1.1% UP

34

116°

296°

6200

CATEGORY	A	B	C	D
CIRCLING	4700-1¼ 1762 (1800-1¼)	4700-1½ 1762 (1800-1½)	4700-3	1762 (1800-3)

REIL Rwys 16 and 34

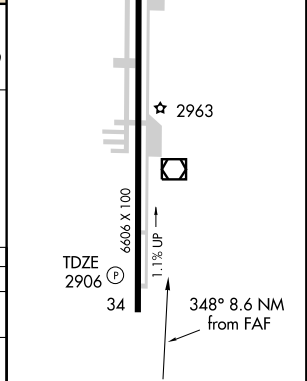
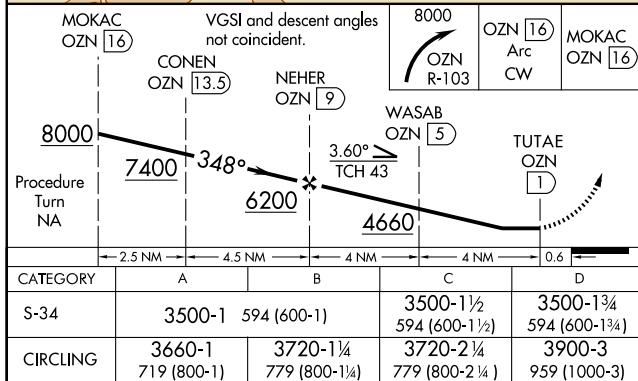
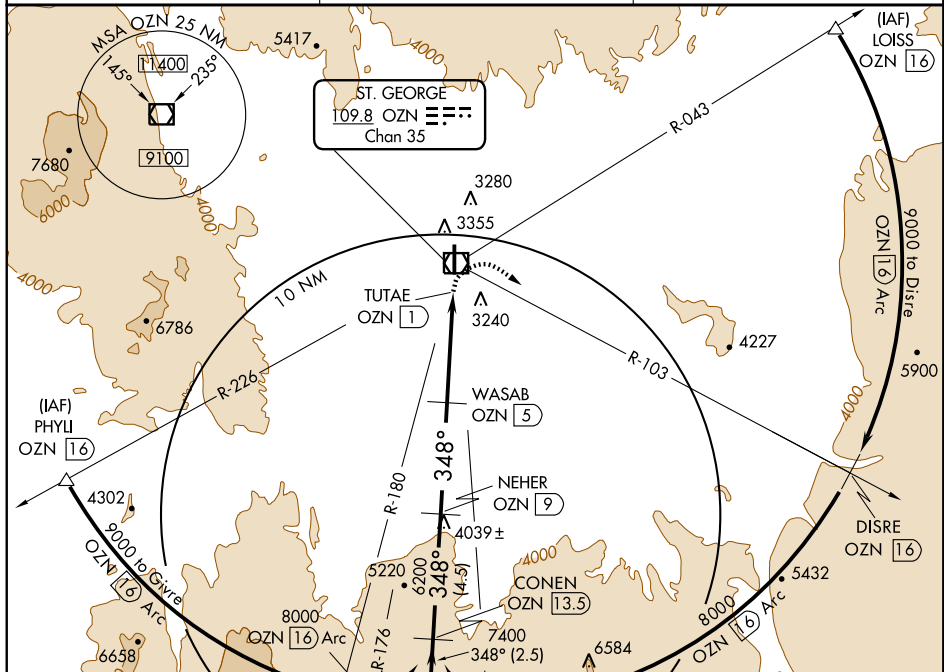
MIRL Rwy 16-34

VOR/DME OZN 109.8 Chan 35	APP CRS 348°	Rwy Idg 6606 TDZE 2906 Apt Elev 2941
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VOR/DME RWY 34
ST. GEORGE MUNI (SGU)

V A V A	MISSED APPROACH: Climbing right turn to 8000 via OZN R-103 and OZN 16 DME Arc CW to MOKAC/16 DME and hold.
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AWOS-3 135.075	CEDAR CITY RADIO 122.5	UNICOM 122.8 (CTAF) 0
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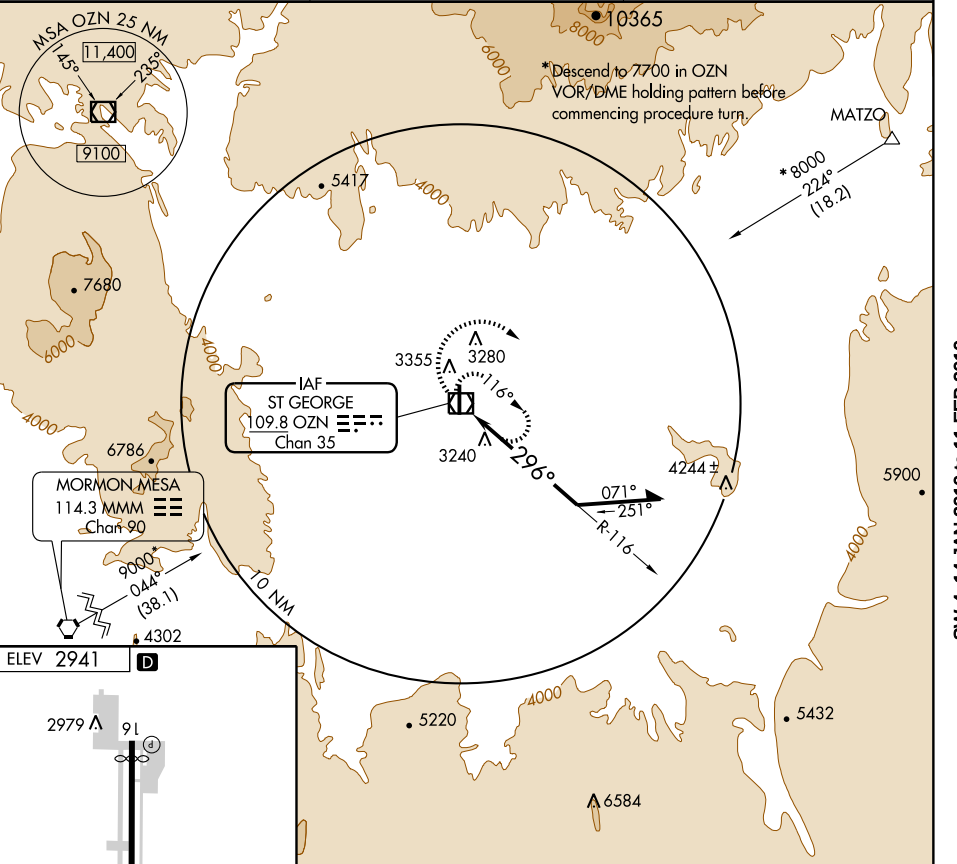


MISSED APPROACH: Climbing right turn to 7000 in OZN VOR/DME holding pattern.

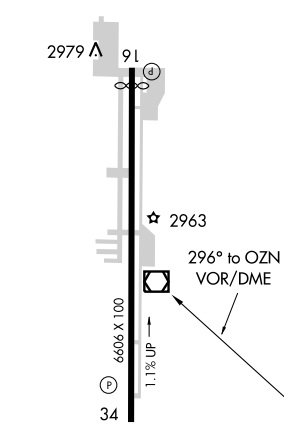
AWOS-3
135.075

CEDAR CITY RADIO
122.5

UNICOM
122.8 (CTAF) 



ELEV 2941 



REIL Rwy 16 and 34 
MIRL Rwy 16-34 

7000

OZN
109.8

VOR/DME

Remain within 5 NM

116°

296°

5200

CATEGORY	A	B	C	D
CIRCLING	4200-1¼ 1262 (1300-1¼)		NA	

SW-4, 14 JAN 2010 to 11 FEB 2010

(YIWDA1.YIWDA) 07074

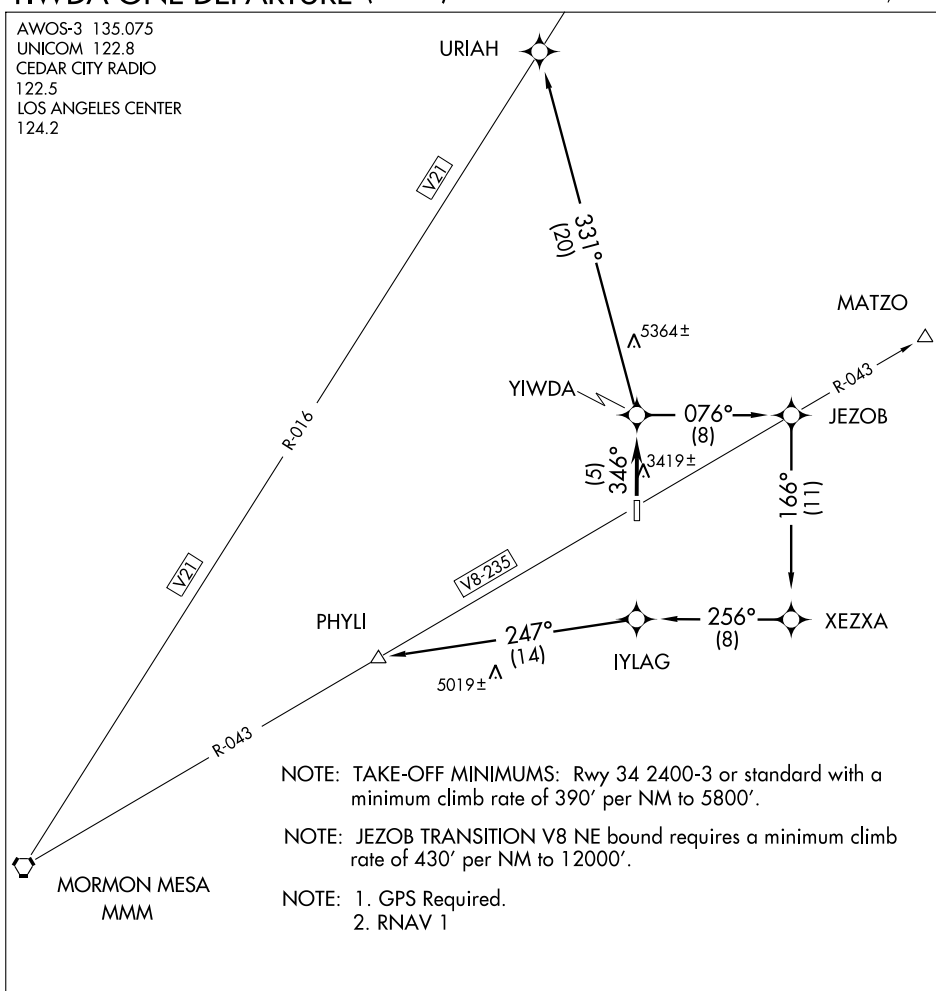
SL-5742 (FAA)

ST. GEORGE MUNI (SGU)

YIWDA ONE DEPARTURE (RNAV)

ST. GEORGE, UTAH

AWOS-3 135.075
UNICOM 122.8
CEDAR CITY RADIO
122.5
LOS ANGELES CENTER
124.2



SW-4, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 12000 (or assigned altitude) via course 346° to YIWDA WP then via assigned transition/route.

TAKE-OFF RUNWAY 16: Not authorized.

JEZOB TRANSITION (YIWDA1.JEZOB): From over YIWDA WP via course 076° to JEZOB WP.

PHYLI TRANSITION (YIWDA1.PHYLI)

URIAH TRANSITION (YIWDA1.URIAH)

LOC/DME I-TVY	APP CRS	Rwy Idg	6100
108.9	166°	TDZE	4297
Chan 26 (X)		Apt Elev	4322

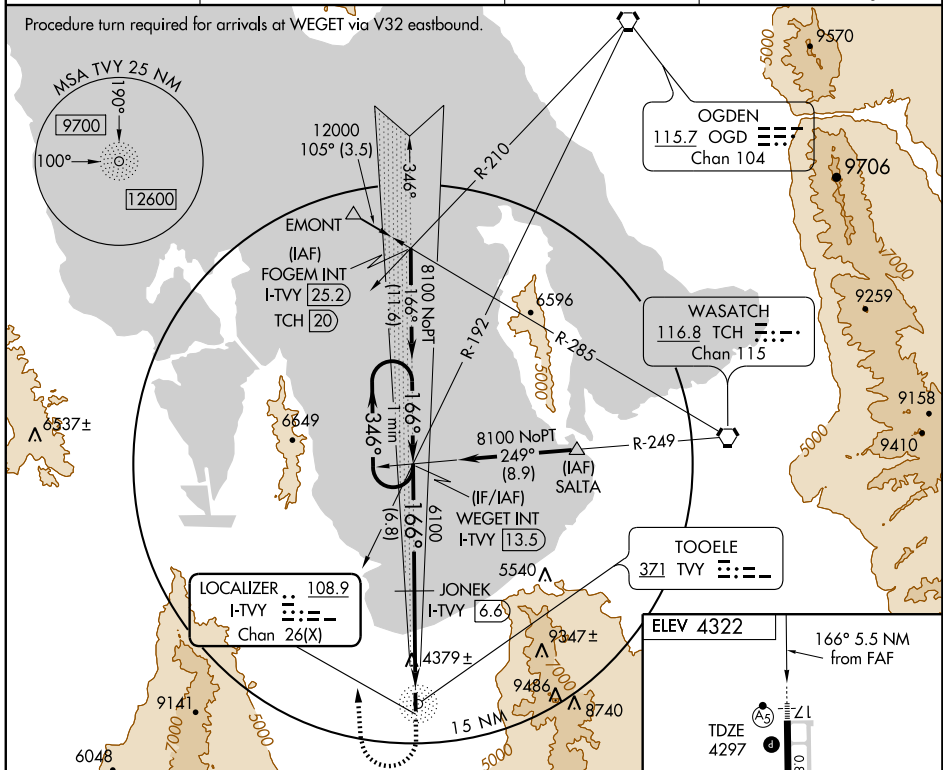
ILS or LOC/DME RWY 17

TOOELE / BOLINDER FIELD-TOOELE VALLEY (TVY)

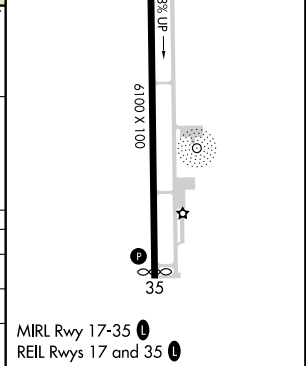
▼ Inoperative table does not apply to S-ILS R17. ▲ When local altimeter setting not received, use Salt Lake City Intl altimeter setting and increase all DA/MDA 60 feet and Circling Cat. D visibility $\frac{1}{4}$ mile. For inoperative MALS R increase S-LOC Cats. A, B, and C visibility to 1 mile. For inoperative MALS R when using Salt Lake City Intl altimeter setting, increase S-LOC 17 Cats. A and B visibility to 1 mile.	MALS R	MISSED APPROACH: Climb to 5400 then climbing right turn to 9000 via heading 343° and OGD VORTAC R-192 to WEGET INT/ I-TVY 13.5 DME and hold, continue climb-in-hold to 9000.
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AWOS-3 119.725	SALT LAKE CITY APP CON 135.5 316.15	CLNC DEL 124.4	UNICOM 123.0 (CTAF) 0
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Procedure turn required for arrivals at WEGET via V32 eastbound.



One Minute Holding Pattern	WEGET INT I-TVY 13.5	JONEK I-TVY 6.6	5400	9000	OGD R-192 115.7	WEGET INT I-TVY 13.5
8100	346°	166°	6100	hdg 343°	I-TVY 2.1	I-TVY 1.2
GS 3.00°			6100			
TCH 55						
	6.8 NM	4.5 NM	1 NM			
CATEGORY	A	B	C	D		
S-ILS 17		4497- $\frac{3}{4}$	200 (200- $\frac{3}{4}$)			
S-LOC 17		4640- $\frac{3}{4}$	343 (400- $\frac{3}{4}$)			
CIRCLING	4820-1 498 (500-1)	4840-1 518 (600-1)	4860-1 $\frac{1}{2}$ 538 (600-1 $\frac{1}{2}$)	4940-2 618 (700-2)		



MIRL Rwy 17-35 0

REIL Rwy 17 and 35 0

NDB TVY 371	APP CRS 161°	Rwy Idg TDZE Apt Elev 6100 4294 4318
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NDB RWY 17

TOOELE / BOLINDER FIELD-TOOELE VALLEY (TVY)

NA Use Salt Lake City Intl altimeter setting.
Circling NA at night to Rwy 35.

MALSR
(AS)

MISSED APPROACH: Climbing right turn to 9000 via the 341° bearing from TVY NDB to LAVRY Int and hold.

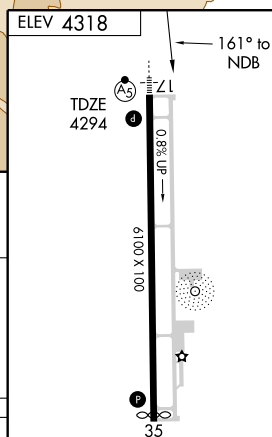
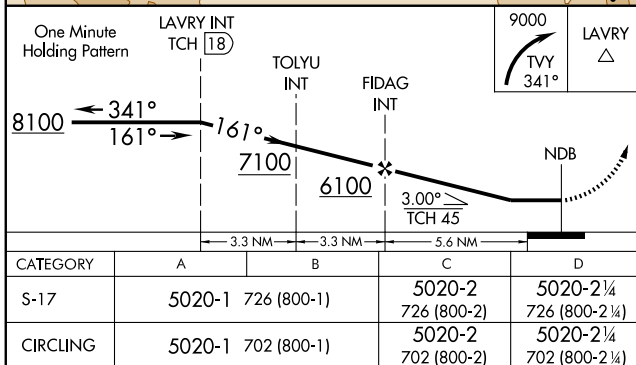
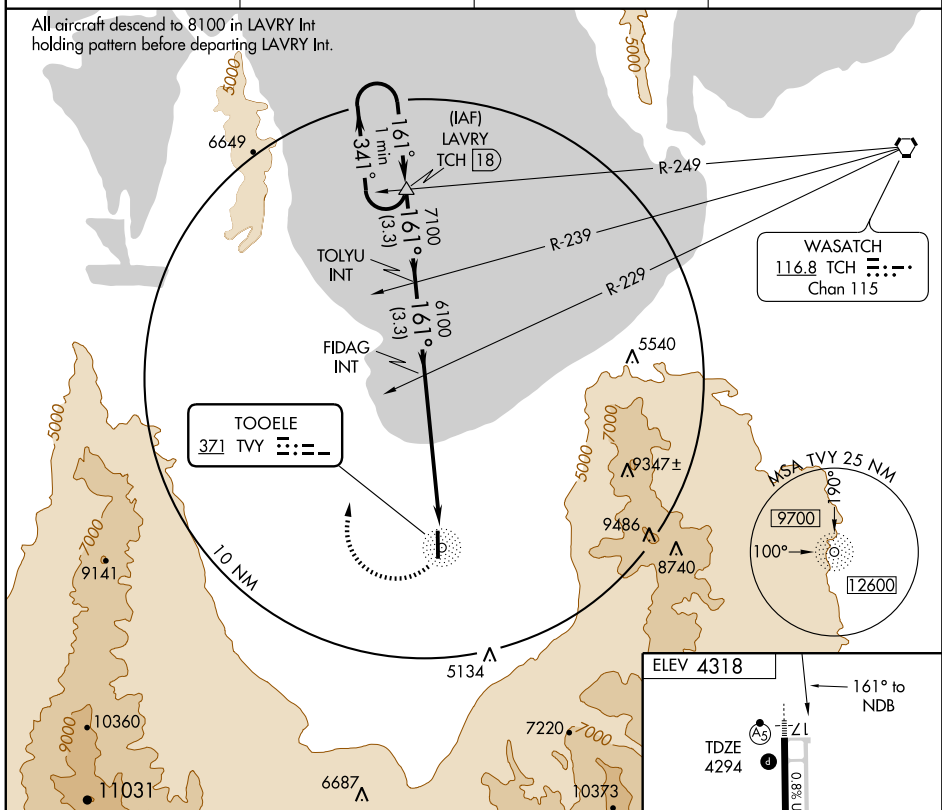
AWOS-3
119.725

SALT LAKE CITY APP CON
135.5 316.15

CLNC DEL
124.4

UNICOM
123.0 (CTAF) **0**

All aircraft descend to 8100 in LAVRY Int holding pattern before departing LAVRY Int.



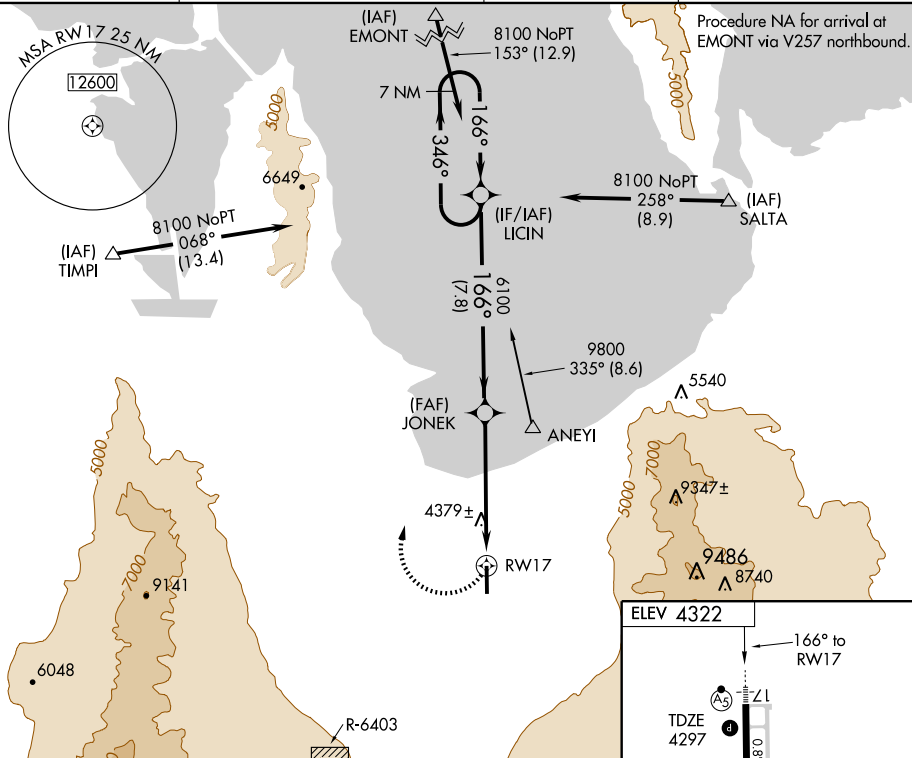
MIRL Rwy 17-35 **0**
REIL Rws 17 and 35 **0**

RNAV (GPS) RWY 17

TOOELE / BOLINDER FIELD-TOOELE VALLEY (TVY)

MISSED APPROACH:
Climbing right turn to
9000 direct LICIN
and hold, continue
climb-in-hold to 9000.

UNICOM
123.0 (CTAF) **L**



SW-4. 14 JAN 2010 to 11 FEB 2010

7 NM
Holding Pattern

LICIN

9000

LICIN

8100

- 346°

JONEK

1.3 NM

6100

55 |

V17

CATEGORY

A

--	--

D

LNAV MDA

4740- $\frac{3}{4}$ 443 (500- $\frac{3}{4}$)

4740-1

25/01/2016

4820-1

4840-

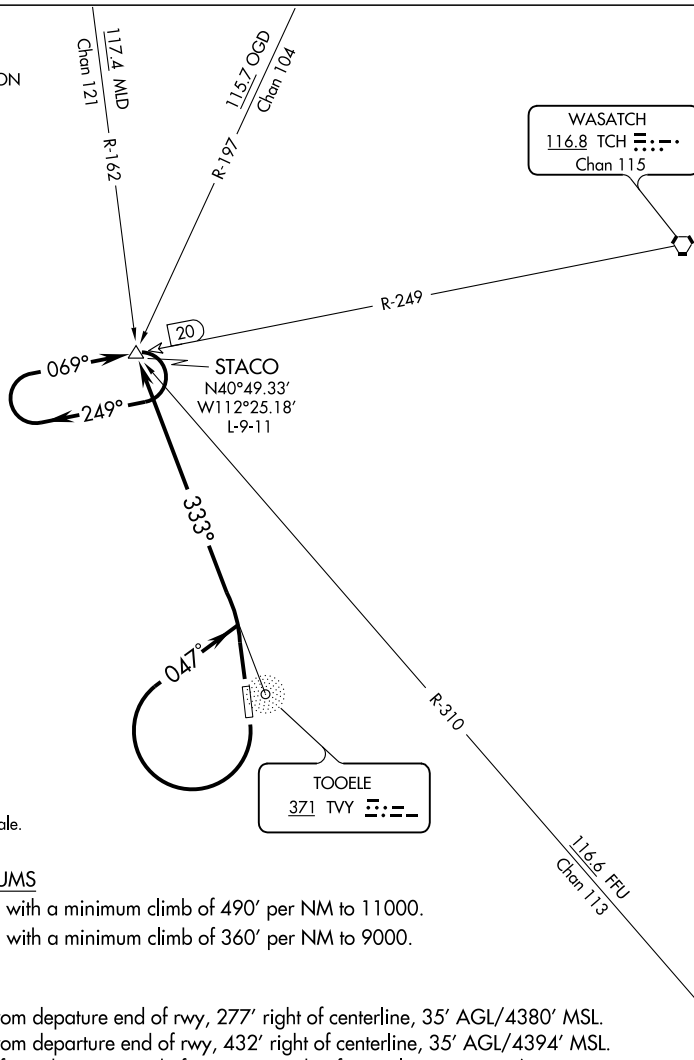
4860-1

4940

MIRL Rwy 17-35

REIL Rwy 17 and 35 L

SALT LAKE CITY ATIS
124.75 127.625
AWOS-3 119.725
SALT LAKE CITY DEP CON
135.5 316.15
CTAF 123.0



NOTE: Chart not to scale.

TAKE-OFF MINIMUMS

Rwy 17: Standard with a minimum climb of 490' per NM to 11000.

Rwy 35: Standard with a minimum climb of 360' per NM to 9000.

NOTE: Rwy 17:

Tree 794' from departure end of rwy, 277' right of centerline, 35' AGL/4380' MSL.

Tree 967' from departure end of rwy, 432' right of centerline, 35' AGL/4394' MSL.

Tree 1023' from departure end of rwy, 313' right of centerline, 35' AGL/4395' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climbing right turn to 11000 via heading 047° and TVY NDB bearing 333° to STACO INT and hold.

TAKE-OFF RUNWAY 35: Climb to 9000 via TVY NDB bearing 333° to STACO INT and hold.

All aircraft expect further clearance to filed route and altitude ten minutes after departure.

▽

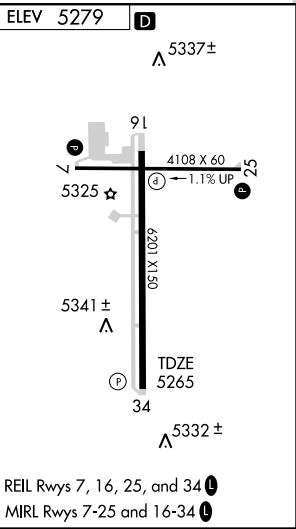
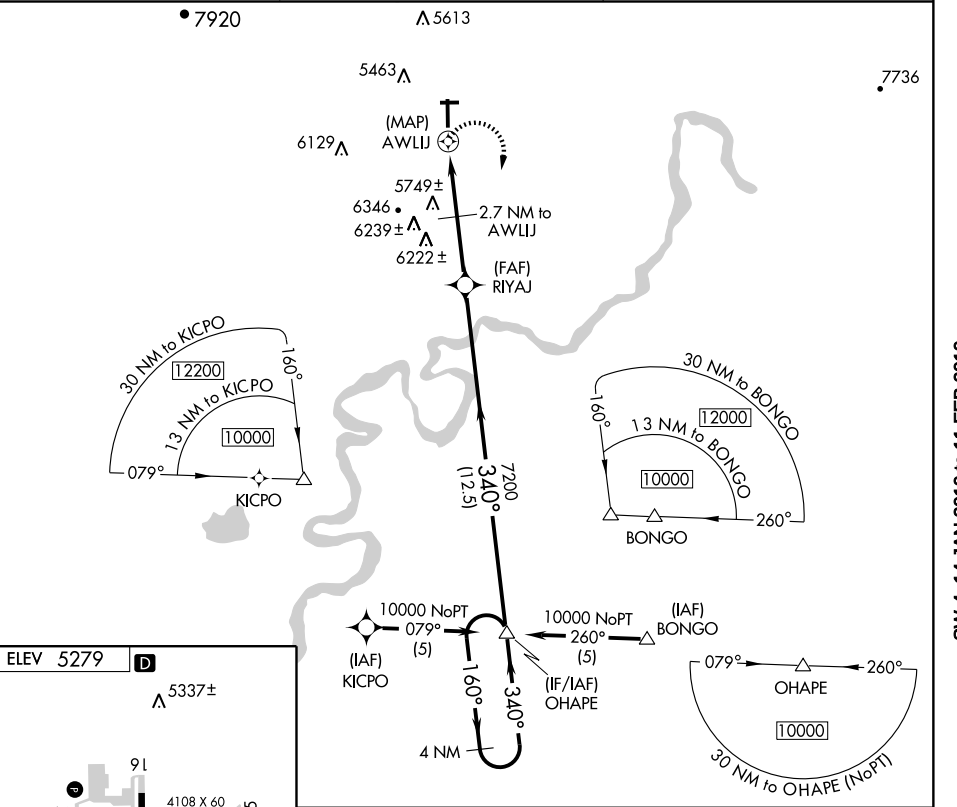
▲

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 10000 direct OHAPE WP and hold.

ASOS 135.175	CEDAR CITY RADIO 122.35	UNICOM 122.7 (CTAF) 0
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	OHAPE △	4 NM Holding Pattern		
	AWLIJ	2.7 NM to AWLIJ	RIYAJ	OHAPE
		3.16° TCH 43	7200	10000
	6380			
	0.5	2.7 NM	2.5 NM	12.5 NM
CATEGORY	A	B	C	D
LNAV MDA	5980-1	715 (800-1)	5980-2 715 (800-2)	5980-2¼ 715 (800-2¼)
CIRCLING	5980-1	701 (800-1)	5980-2 701 (800-2)	5980-2¼ 701 (800-2¼)

VERNAL, UTAH

AL-792 (FAA)

VOR RWY 34

VERNAL RGNL (VEL)

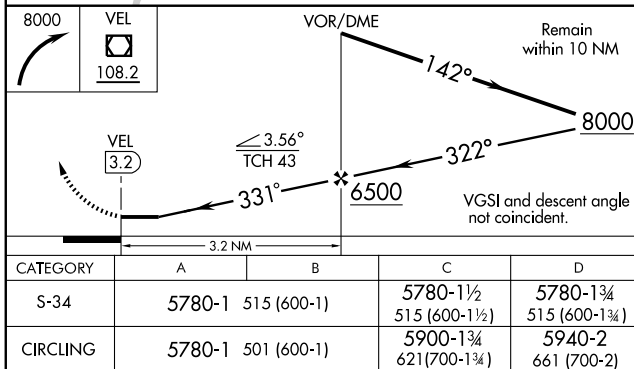
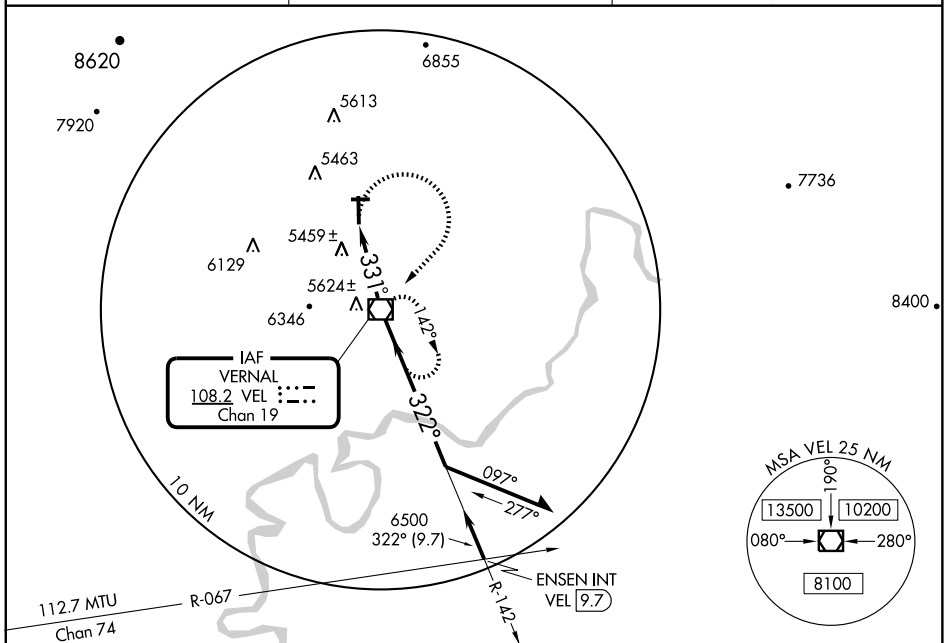
VOR/DME VEL 108.2 Chan 19	APP CRS 331°	Rwy Idg TDZE Apt Elev 6201 5265 5279
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MISSED APPROACH: Climbing right turn to 8000 direct
VEL VOR/DME and hold.

ASOS
135.175

CEDAR CITY RADIO
122.35

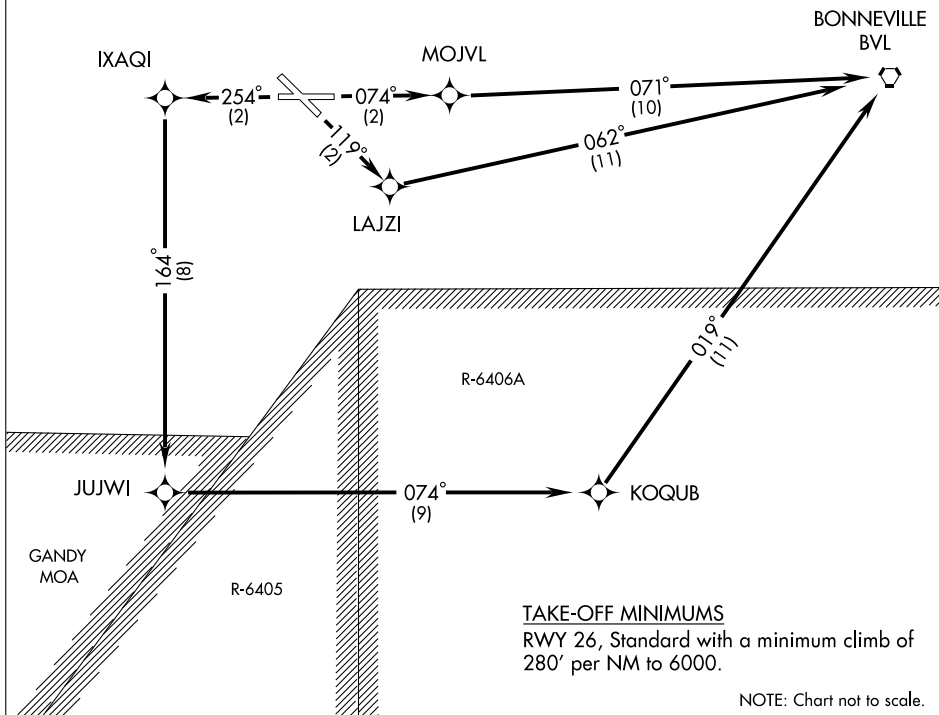
UNICOM
122.7 (CTAF) 1



BONNEVILLE ONE DEPARTURE (RNAV)

CEDAR CITY RADIO
122.1R
UNICOM 122.8 (CTAF)
AWOS-3 135.075

NOTE: 1. GPS required.
2. RNAV 1.



SW-4, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb to 9000 via course 074° to MOJV L WP, then via course 071° to BVL VORTAC.

TAKE-OFF RUNWAY 12: Climb to 9000 via course 119° to LAJZI WP, then via course 062° to BVL VORTAC.

TAKE-OFF RUNWAY 26: Climb to 9000 via course 254° to IXAQI WP, then via course 164° to JUJWI WP, then via course 074° to KOQUB WP, then via course 019° to BVL VORTAC.

TAKE-OFF RUNWAY 30: Not authorized.

APP CRS	Rwy Idg	N/A
081°	TDZE	N/A
	Apt Elev	4235

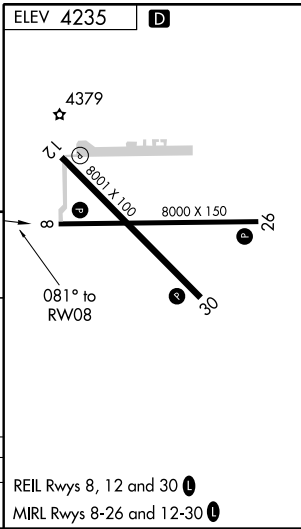
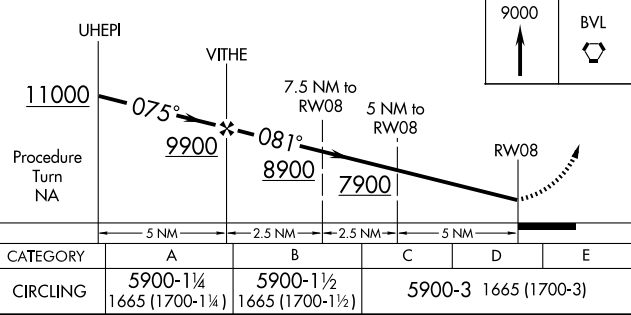
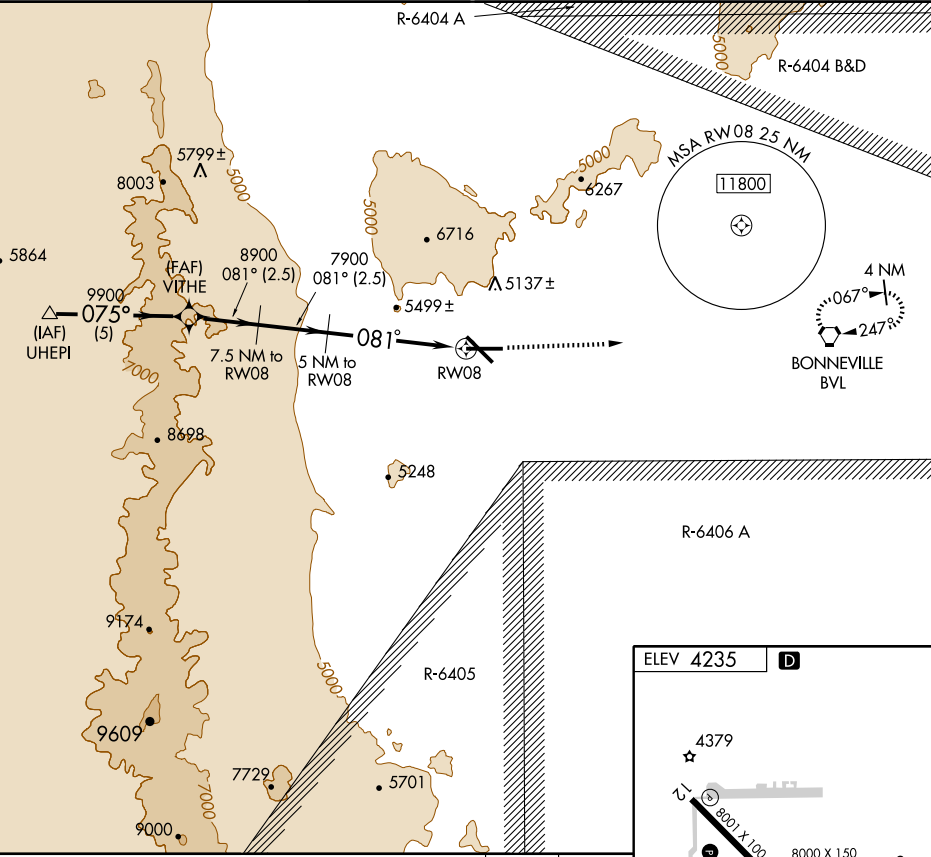
RNAV (GPS)-A
WENDOVER (ENV)

NA

Circling not authorized north of Rwy 8-26.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct BVL VORTAC and hold.

AWOS-3 135.075	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF)
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RNAV (GPS) RWY 26
WENDOVER (ENV)

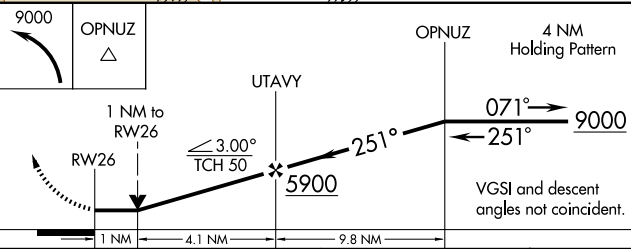
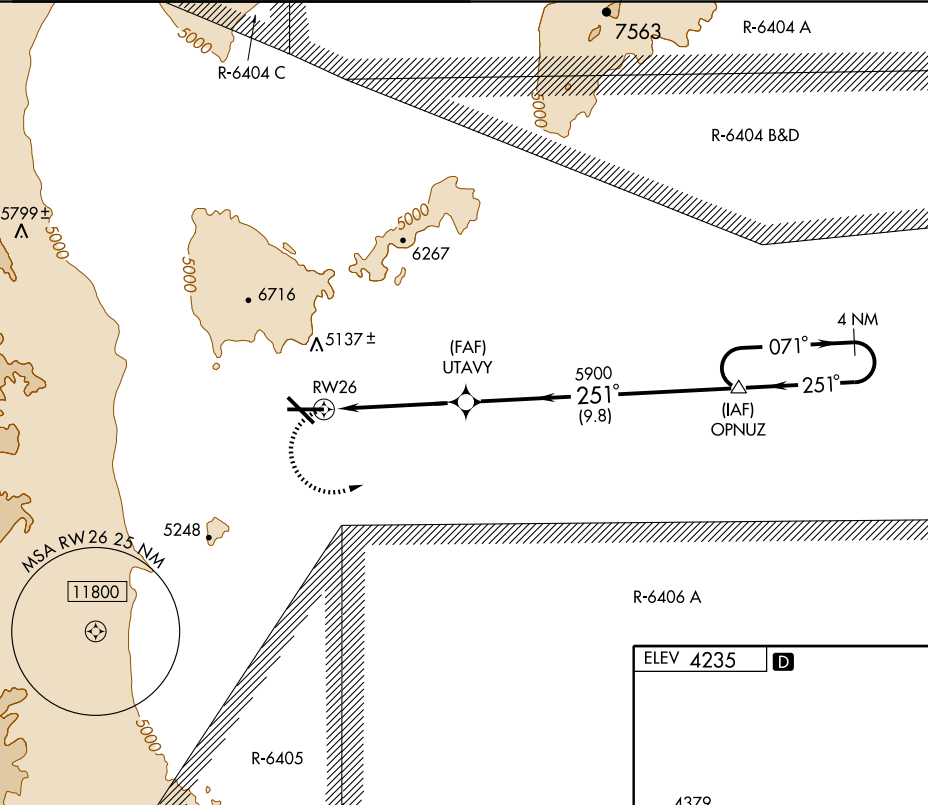
APP CRS	Rwy Idg	8000
251°	TDZE	4224
	Apt Elev	4235

⚠ Circling not authorized north of Rwy 8-26.

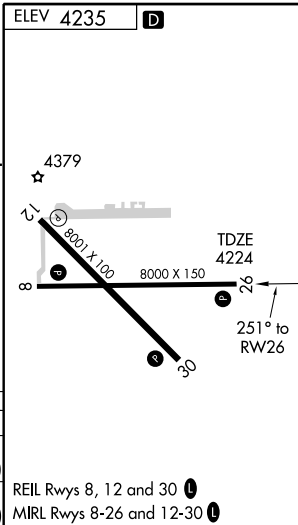
⚠ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 9000 direct OPNUZ WP and hold.

AWOS-3 135.075	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) Ⓛ
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CATEGORY	A	B	C	D	E
RNAV MDA	4580-1	356 (400-1)		4580-1¼ 356 (400-1¼)	4660-1½ 436 (500-1½)
CIRCLING	4640-1 405 (500-1)	4700-1 465 (500-1)	4700-1½ 465 (500-1½)	4800-2 565 (600-2)	5000-2¾ 765 (800-2¾)



REIL Rwy 8, 12 and 30 **Ⓛ**
MRL Rwy 8-26 and 12-30 **Ⓛ**

WENDOVER, UTAH

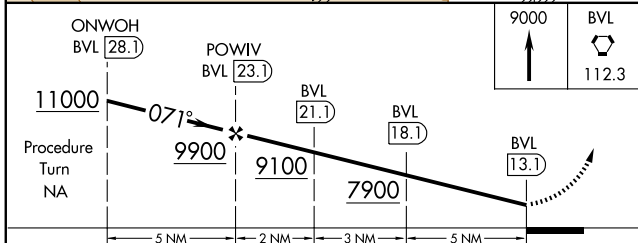
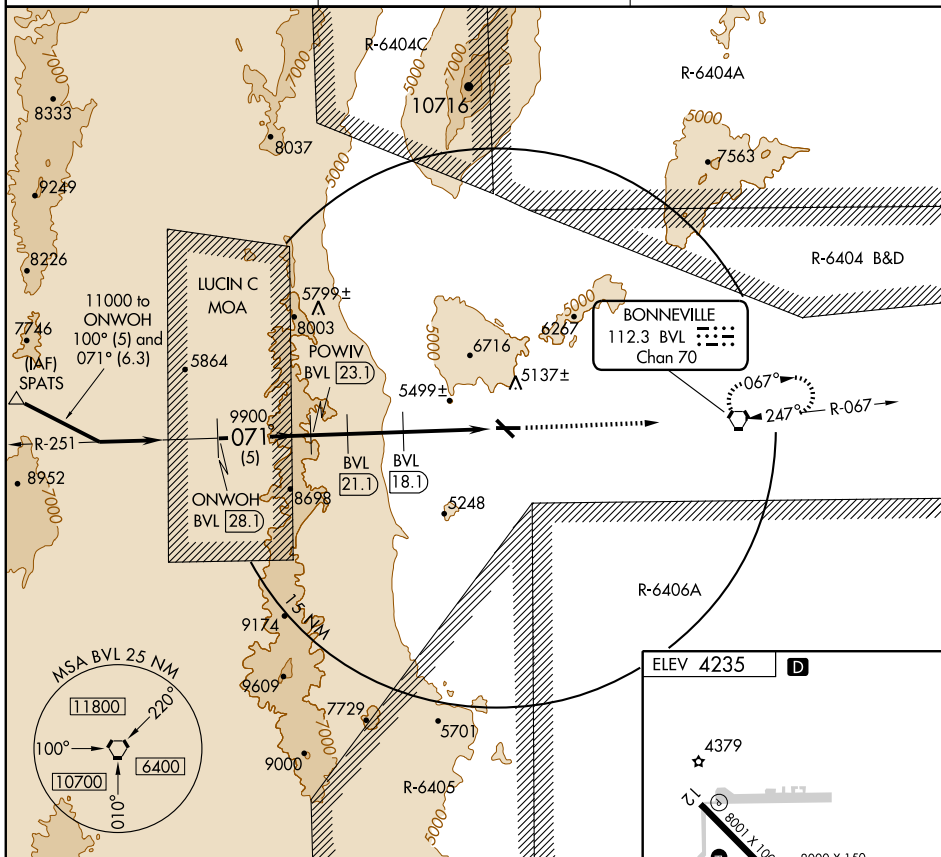
AL-445 (FAA)

VORTAC BVL 112.3 Chan 70	APP CRS 071°	Rwy Idg TDZE Apt Elev N/A N/A 4235
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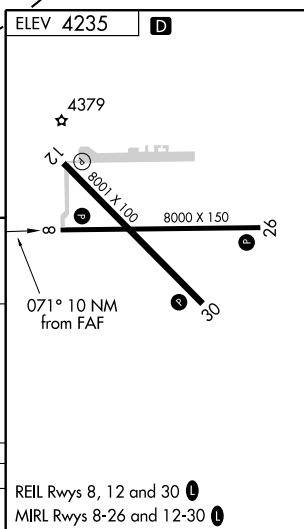
VOR/DME-B
WENDOVER (ENV)

▼
▲ Circling not authorized north of Rwy 8-26. MISSED APPROACH: Climb to 9000 direct BVL VORTAC and hold.

AWOS-3 135.075	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) ①
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CATEGORY	A	B	C	D	E
CIRCLING	5900-1¼ 1665 (1700-1¼)	5900-1½ 1665 (1700-1½)	5900-3 1665 (1700-3)		



REIL Rws 8, 12 and 30 **①**
MIRL Rws 8-26 and 12-30 **①**

SW-4, 14 JAN 2010 to 11 FEB 2010

AL-445 (FAA)

VORTAC BVL 112.3 Chan 70	APP CRS 251°	Rwy Idg 8000 TDZE 4224 Apt Elev 4235
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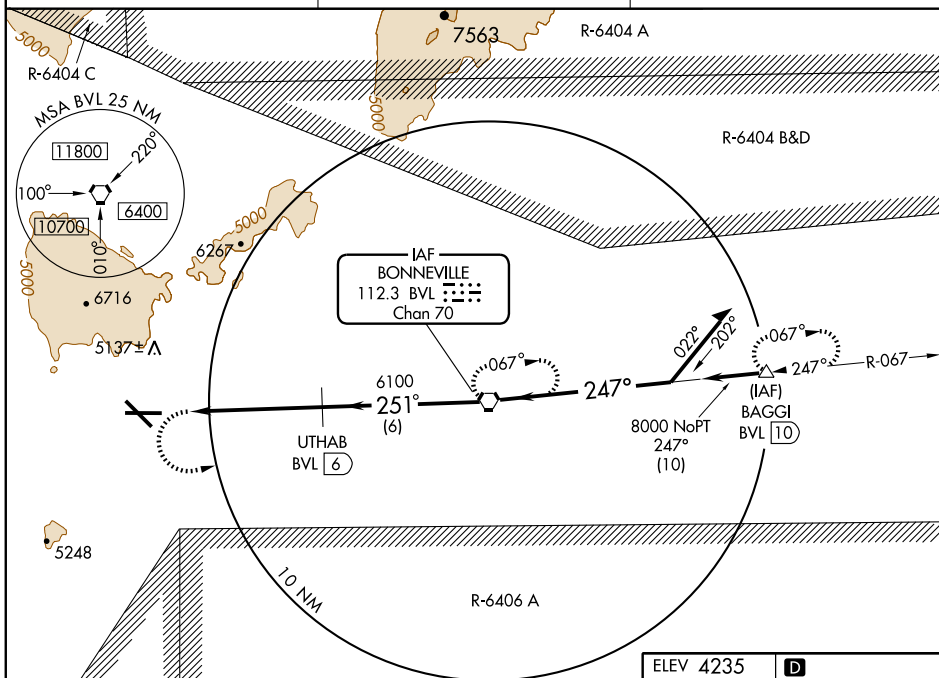
VOR/DME or TACAN RWY 26
WENDOVER (ENV)

T Circling not authorized north of Rwy 8-26.

MISSED APPROACH: Climbing left turn to 9000 direct BVL VORTAC and hold. (TACAN aircraft continue via BVL R-067 to BAGGI INT and hold NE, right turns, 247° inbound.)

AWOS-3
135.075

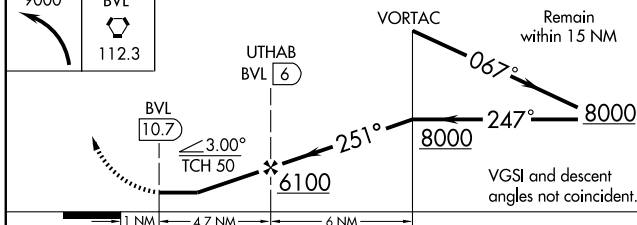
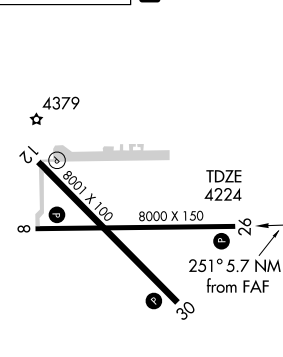
CEDAR CITY RADIO
122.1R

UNICOM
122.8 (CTAF) **L**

SW-4. 14 JAN 2010 to 11 FEB 2010

9000	BVL 112.3
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ELEV 4235	D
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CATEGORY	A	B	C	D	E
S-26	4580-1¼ 356 (400-1¼)			4620-1¼ 396 (400-1¼)	4960-2½ 736 (800-2½)
CIRCLING	4640-1¼ 405 (500-1¼)	4700-1¼ 465 (500-1¼)	4700-1½ 465 (500-1½)	4800-2 565 (600-2)	5000-2¾ 765 (800-2¾)

REIL Rwys 8, 12 and 30 **L**
MIRL Rwys 8-26 and 12-30 **L**